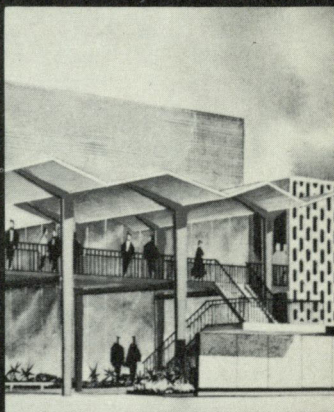
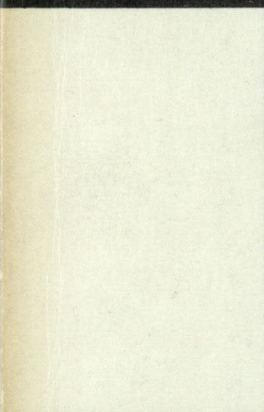
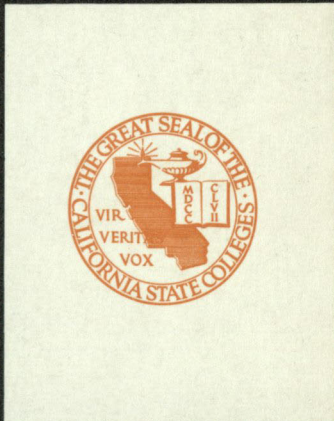
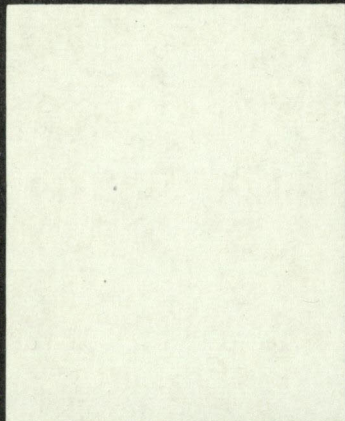
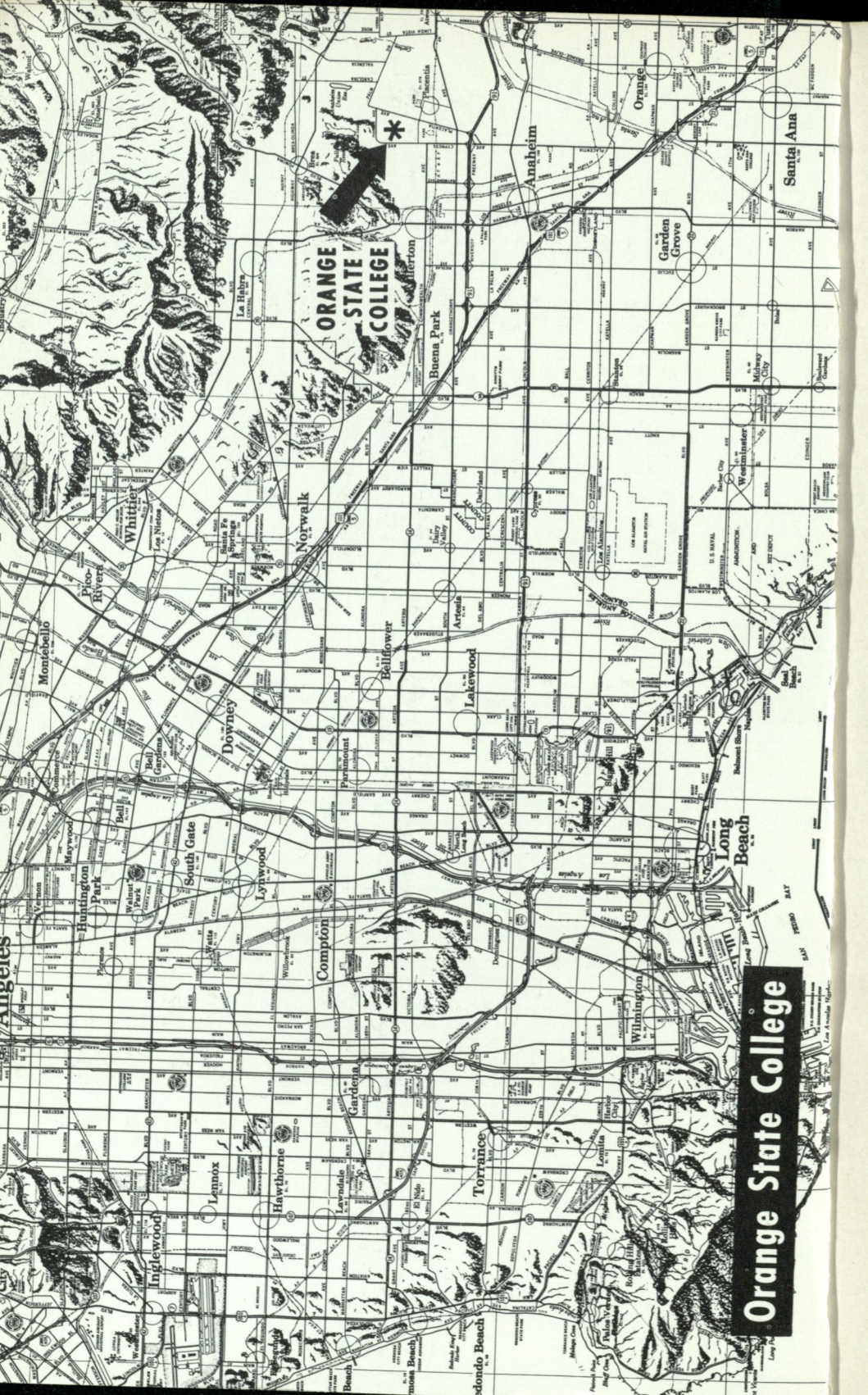


ORANGE STATE COLLEGE



CATALOG

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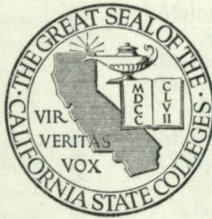


ORANGE
STATE
COLLEGE

Orange State College

General Catalog

1963-1964



ORANGE STATE COLLEGE

800 North State College Boulevard, Fullerton, California

General Catalog

1963-1964



ORANGE STATE COLLEGE

1015 N. State College Boulevard, Fullerton, California

Orange State College

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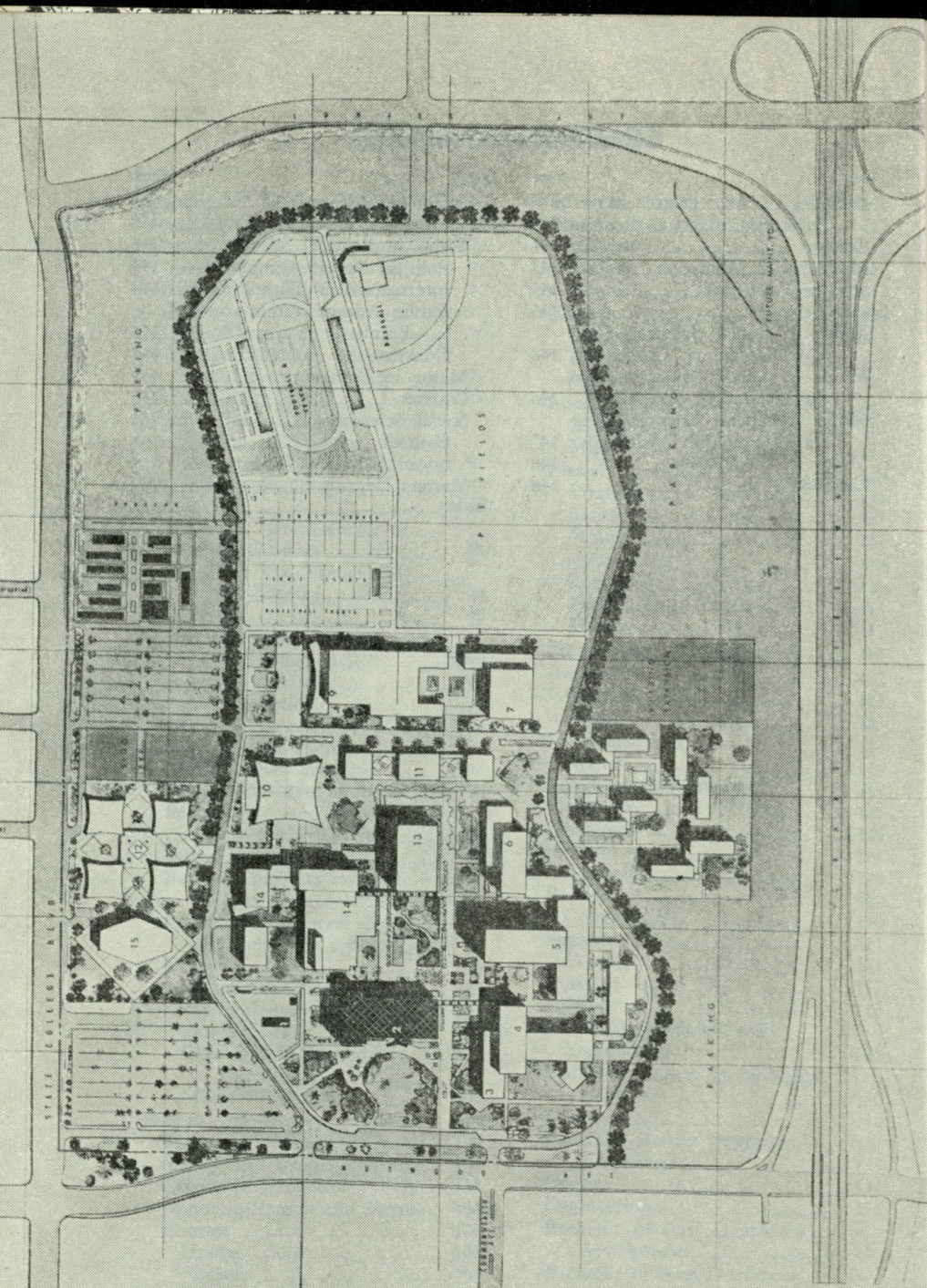
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
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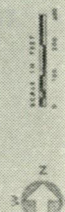


BUILDINGS

- 1 SERVICE & GREENHOUSE
- 2 SCIENCE
- 3 ADMINISTRATION
- 4 MATH & ENGINEERING
- 5 CLASSROOMS
- 6 CLASSROOMS
- 7 WOMEN'S GYM
- 8 POOL
- 9 MEN'S GYM
- 10 DINING CENTER
- 11 STUDENT CENTER
- 12 ART CENTER
- 13 LIBRARY
- 14 MUSIC, SPEECH, DRAMA
- 15 AUDITORIUM

LEGEND

-  EXISTING BUILDINGS
-  FUTURE BUILDINGS



ORANGE STATE COLLEGE

Fullerton, California

COLLEGE CALENDAR: 1963-64

Summer Session 1963

June	17	Mon.	Summer Session begins
July	4	Thurs.	Independence Day (holiday)
July	26	Fri.	Summer Session Ends

Fall Session 1963

August	15	Thurs.	Application for admission and transcripts due in Admissions Office
September	16-17	Mon.-Tues.	College orientation
September	17	Tues. (A.M.)	Advisement and registration for Freshmen
September	18-19	Wed.-Thurs.	Advisement and registration for all others
September	19	Thurs.	Last day to register without late registration fees
September	23	Mon.	Classes begin
September	27	Fri.	Last day to register or add classes
November	1	Fri.	Last day to drop a course with automatic "W"
November	11	Mon.	Veterans' Day (holiday)
November	28-29	Thurs.-Fri.	Thanksgiving recess
December	19	Thurs.	Christmas recess begins
January	2	Thurs.	Classes resume
January	23	Thurs.	Classes end
January	24-25	Fri.-Sat.	} Semester examinations
January	27-30	Mon.-Thurs.	

Spring Session 1964

January	15	Wed.	Application for admission and transcripts due in Admissions Office
February	5-6	Wed.-Thurs.	Registration for all classes
February	6	Thurs.	Last day to register without late registration fees
February	10	Mon.	Classes begin
February	12	Wed.	Lincoln's birthday (holiday)
February	14	Fri.	Last day to register or add classes
March	6	Fri.	Last day to drop a course with automatic "W"
March	23	Mon.	Spring recess begins
March	30	Mon.	Classes resume
May	8	Fri.	Day of the Titan (not a holiday)
May	27	Wed.	Classes end
May	28-29	Thurs.-Fri.	} Semester examinations
June	1-4	Mon.-Thurs.	
June	7	Sun.	Commencement

Summer Session 1964

June	15	Mon.	First Summer Session begins
July	24	Fri.	First Summer Session ends
July	27	Mon.	Second Summer Session begins
August	21	Fri.	Second Summer Session ends

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2930 West Imperial Highway
Inglewood, California

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Inglewood, California

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Associate Dean of Students, Counseling and Testing	Arthur L. Tollefson
Counselor and Test Officer	Arthur W. Lynn
College Physician	Harold L. Graber, M.D.
Director of Placement Services	Max W. Burke

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Business Manager	J. E. Lyons
Accounting Officer	Stanley N. Chase
Personnel Officer	Mrs. Marie M. Hoffman
Chief of Plant Operations	Beryl E. Kempton
Supervisor of Building Trades	A. T. Clark

FACULTY AND ADMINISTRATION 1962-63

(Year in parentheses indicates date of appointment)

- LANGSDORF, WILLIAM B. (1959)..... President and Professor of History
B.A., M.A., Occidental College; Ph.D., University of California, Berkeley
- 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)..... Assistant Professor of Journalism
B.A., M.S., University of Southern California
- ALLEN, HOLLIS P. (1960)..... Professor of Education
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
- ASHLEY, THOMAS J. (1961)..... Assistant Professor of Political Science
B.A., Fresno State College; Ph.D., Claremont Graduate School
- BACON, JUNE (1962)..... Librarian II
B.A., University of California, M.S. in L.S., University of Southern California
- 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
- BECK, WARREN A. (1961)..... Assistant 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., University
of Southern California
- BLANCHARD, MILTON C. (1961)..... Building Coordinator
B.S., M.Ed., Tufts University
- BRATTSTROM, BAYARD H. (1960)..... Associate Professor of Zoology
B.S., San Diego State College; M.A., Ph.D., University of California, Los Angeles
- BREINHOLT, VERNA A. (1961)..... Associate Professor of Speech
B.A., M.A., Brigham Young University
- BRIDGMAN, DONALD C. (1960)..... Professor of Education
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
- BROWN, GILES T. (1960)..... Professor of History and Chairman, Division of
Social Sciences, and Chairman, History Department
B.A., San Diego State College; M.A., University of California, Berkeley; 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,
Berkeley

- 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
- BURKE, MAX W. (1960) _____ Director of Placement Services and Assistant
Professor of Education
B.A., University of Iowa; B.D., Colgate-Rochester Divinity School
- BURNS, CAROL N. (1963) _____ Registrar
B.A., Fresno State College
- 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 and Economics and Coordinator of Secondary Education and Chairman, Secondary Education Department
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
- COOK, BEVERLY B. (1962) _____ Assistant Professor of Political Science
B.A., Wellesley College; M.A., University of Wisconsin; Ph.D., Claremont Graduate School
- CROY, HAZEL M. (1960) _____ Associate Professor of Education
B.A., M.A., University of Redlands; Ed.D., University of California, Los Angeles
- CUSICK, JAMES W. (1961) _____ Assistant Professor of Education
B.S. Montana State College; M.A., Washington State University
- DAVIS, BARBARA E. (1960) _____ Librarian IV
B.S., Carnegie Institute of Technology; M.L.S., Carnegie Library School; B.Mus., University of Wisconsin
- DAVIS, F. JAMES (1962) _____ Professor of Sociology
B.A., Ph.D., State University of Iowa
- DE GRAAF, LAWRENCE B. (1959) _____ Assistant 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
B.A., University of California, Santa Barbara; M.S., University of Southern California; Ed.D., University of California, Los Angeles
- DIETZ, NAOMI G. (1960) _____ Associate Professor of Art
B.S., Whitworth College; M.A., Teachers College, Columbia University
- DOANE, KENNETH R. (1960) _____ Professor of Education and Chairman,
Division of Education and Psychology
B.S., Wisconsin State College, La Crosse; M.S., Ph.D., University of Wisconsin
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B.S., Arizona State University; M.A., University of Denver
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Chairman, Geography Department
B.A., Indiana University; M.A., Ph.D., University of Michigan

- 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
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B.A., M.A. in L.S., University of Michigan

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B.A., University of California, Los Angeles; M.S. in L.S., University of Southern California
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Music Department
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Professor of Education
B.A., University of Redlands; M.A., Claremont Graduate School
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Political Science Department
B.A., Butler University; M.A., Ph.D., University of Wisconsin
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B.S., M.A., Ph.D., Columbia University
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Chairman, Journalism Department
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Science and Mathematics, and Chairman, Biological Science Department
B.S., Westchester State Teachers College, Pennsylvania; Ph.D., University of Pennsylvania
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B.A., Asbury College; M.S., Ohio University; Ph.D., University of Michigan
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and Management
B.S., M.S., North Texas University; Ph.D., The University of Texas
- McCOMB, STUART F. (1959) Executive Dean and Professor of Education
B.A., Arizona State University; M.S., Ed.D., University of Southern California; LL.D., Upper Iowa University

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B.A., Cornell College; M.A., Northwestern University; Ph.D., State University of Iowa
- McNELLY, WILLIS E. (1961) Assistant Professor of English
B.A., Central YMCA College; M.A., Loyola University (Chicago); Ph.D., Northwestern University
- MICHALSKY, DONAL R. (1960) Assistant Professor of Music
B.Mus., Mus.M., University of Southern California
- MITCHELL, VIRGINIA A. (1962) Librarian II
B.S., Kansas State Teachers College
- NELSON, CECILIA R. (1962) Assistant Professor of Music
B.A., State Teachers College, Valley City, N.Dak.; B.Mus., Concordia College; M.Mus., Eastman School of Music
- OBLER, PAUL C. (1962) Associate Professor of English
B.A., American University; M.A., Columbia University; Ph.D., Rutgers University
- OLSEN, JOHN W. (1961) Professor of Art and Chairman, Division of Fine and Applied Arts, and Chairman, Art Department
B.Ed., University of California, Los Angeles; M.A., Ed.D., Columbia University
- OMALEV, ALEXANDER (1960) Associate Professor of Physical Education and Coach of Basketball
B.A., M.S., University of Southern California
- O'TOOLE, JOHN B. (1962) Associate Professor of Mathematics
B.A., Duquesne University; Lit.M., Ph.D., University of Pittsburgh
- PASTOR, PAUL J. (1960) Associate Professor of Education and Physical Education
B.S., M.Ed., Springfield College; Ed.D., University of Oregon
- PONTNEY, JACK A. (1961) Assistant Professor of Economics
B.A., University of Redlands; M.A., Northwestern University
- POVLOVICH, CHARLES A., JR. (1960) Associate Professor of History
B.A., University of Kansas City; M.A., University of Missouri; Ph.D., University of Southern California
- RAMSAY, ORRINGTON C. (1960) Professor of English
B.S., Northwestern University; M.A., Ph.D., University of Wisconsin
- REITH, GERTRUDE M. (1961) Assistant Professor of Geography
B.A., M.A., University of Washington; Ph.D., Clark University
- ROBERTS, FRANK L. (1961) Associate Professor of Management and Marketing
B.S., University of Arkansas; M.B.A., University of Texas; Ph.D., University of Illinois
- SAILOR, DANTON B. (1962) Assistant Professor of History
B.A., M.A., Ph.D., University of Illinois
- SALZ, PAULINA J. (1961) Assistant Professor of English
B.A., M.A., Ph.D., University of Southern California
- SAMUELSON, GERALD D. (1962) Assistant Professor of Art
B.A., M.A., University of California, Los Angeles
- SCHMIDT, LOUIS G. (1961) Professor of Education and Acting Chairman, Psychology Department
B.S., Stout State College; M.S., Ph.D., University of Wisconsin
- SCHNEIDER, CLARENCE E. (1962) Associate Professor of English
B.A., Iowa State Teachers College; M.A., University of Iowa; Ph.D., University of Southern California
- SHAPLEY, CHARLES S. (1962) Assistant Professor of French
B.A., M.A., Ph.D., University of California, Berkeley

- SMITH, J. REX (1961) Assistant Professor of Sociology
B.A., Phillips University; B.D., Yale University (Divinity School); M.A., Ph.D.,
University of Southern California
- SMITH, THEODORE H. (1960) Professor of Finance and Marketing and
Chairman, Division of Business Administration and Economics and Acting
Chairman, Economics Department
B.A., Heidelberg College; M.B.A., Northwestern University; Ph.D., Ohio State
University
- SMITH, VICTOR V. (1962) Assistant Professor of Art
B.A., M.A., Long Beach State College
- STIEL, EDESEL F. (1962) Assistant Professor of Mathematics
B.A., M.A., Ph.D., University of California, Los Angeles
- SUTTON, DONALD D. (1960) Associate Professor of Biology
B.A., University of California, Berkeley; M.A., Ph.D., University of California,
Davis
- THORSEN, DAVID O. (1960) Associate Professor of Music
B.Mus., University of Redlands; M.A., Occidental College
- TOLLEFSON, ARTHUR L. (1962) Associate Dean of Students, Counseling and
Testing, and Associate Professor of Education
B.A., Concordia College; M.A., Ph.D., University of Minnesota
- TOY, ERNEST W., JR. (1959) College Librarian and Associate Professor
of History
B.A., College of St. Thomas; M.S., University of Southern California; M.A.,
University of California, Los Angeles
- TULL, DONALD S. (1961) Professor of Business Statistics, Economics and
Marketing, and Chairman, Marketing and Quantitative Methods Department
B.S., M.B.A., Ph.D., University of Chicago
- TURNER, GEORGE C. (1960) Associate Professor of Biology
B.A., Stanford University; M.S., Utah State University; M.Ed., Eastern Wash-
ington College of Education
- UNTERBERGER, BETTY M. (1961) Associate Professor of History
B.A., Syracuse University; M.A., Radcliffe-Harvard; Ph.D., Duke University
- WISEMAN, DORSEY E. (1961) Professor of Accounting and Finance
and Chairman, Accounting and Finance Department
B.S., West Virginia University; M.B.A., University of Pennsylvania; Ph.D., Uni-
versity of Illinois
- WOO, JOHN C. H. (1962) Assistant Professor of Accounting
B.A., National University, Nanking, China; M.A., San Francisco State College;
M.A., Ph.D., University of California, Berkeley
- YOUNG, JAMES D. (1960) Associate Professor of Drama
B.S., Pepperdine College; M.A., Ph.D., University of Southern California

PART-TIME FACULTY 1962-63

- AHUMADA, RODOLFO (1962) Assistant Professor of Philosophy
B.A., M.A., Mexico City College
- ARONSON, EDWIN C. (1963) Assistant Professor of Management
B.S., Los Angeles State College; M.B.A., University of Southern California
- ASH, EDWARD C. (1962) Assistant Professor of Management
B.S., M.B.A., University of Southern California
- BEATON, CHARLES R. (1962) Assistant Professor of Finance
B.A., Willamette University
- BEDDOWS, HAROLD R. (1962) Instructor of Business Education
B.S., Thiel College; M.S., University of Southern California

- BROWN, EDWARD D. (1962).....Assistant Professor of Drama
B.A., Louisiana State University; M.A., Michigan State University; Ph.D., University of Denver
- CALLACI, CHARLES A. (1962).....Assistant Professor of Speech
B.A., Emerson College; M.A., San Francisco State College
- CANNON, JOHN P. (1962).....Assistant Professor of Geography
B.A., Long Beach State College; M.A., Mexico City College; Ph.D., University of Mexico
- COCHRUM, ELLEN (1962).....Instructor of Russian
- COX, MIRIAM (1961).....Assistant Professor of English
B.S., Utah State University; M.S., University of Idaho
- DURYEA, LESLIE N. (1962).....Associate Professor of Management
B.S., Purdue University; LL.B., Stanford University
- FORLEY, MAURICE (1962).....Associate Professor of Speech
Ph.B., Yale College; J.D., Northwestern Law School
- FROLA, FRANCIS R. (1962).....Assistant Professor of Mathematics
B.A., M.S., San Jose State College
- GOOD, KAYE M. (1961).....Instructor of Speech
B.A., Washington State College
- GRATNER, PAULINE (1962).....Assistant Professor of Art
B.E., University of California, Los Angeles
- GUSSOW, MARGARET B. (1962).....Librarian I
B.A., Queen's University; M.S. in L.S., University of Southern California
- HARRINGTON, ERNEST R. (1960).....Associate Professor of Speech
B.A., M.A., University of Washington; Ph.D., State University of Iowa
- HAUCK, ELDON (1963).....Assistant Professor of Physical Education
B.S., Utah State College; M.Ed., University of Washington
- HAYS, DONALD G. (1963).....Assistant Professor of Education
B.A., M.A., Arizona State College; Ph.D., University of Wisconsin
- HOFF, GEORGE R. (1960).....Assistant Professor of Psychology
B.A., Pepperdine College; M.S., Ph.D., University of Southern California
- HOLDEN, DANIEL W. (1962).....Assistant Professor of Management
B.S., University of California, Berkeley; LL.B., Loyola University
- HOLDGRAFER, PATRICIA J. (1963).....Instructor of Education
B.A., M.A., Long Beach State College
- JORDAN, CLIFFORD W. (1963).....Associate Professor of Education
B.A., Whittier College; M.S. Ed.D., University of Southern California
- KAPLAN, DONALD E. (1960).....Assistant Professor of Speech
B.A., University of California, Los Angeles; M.A., Long Beach State College
- KETTERINGHAM, WILLIAM J. (1962).....Instructor of Geography
B.A., University of California, Los Angeles; M.A., Stanford University
- LAKE, ERNEST G. (1963).....Professor of Education
B.A., Montana University; M.Ed., Ed.D., Harvard University
- LASSWELL, THOMAS E. (1962).....Associate Professor of Sociology
B.A., Arkansas College; M.S., Ph.D., University of Southern California
- LYNAM, WILLIAM C. (1963).....Assistant Professor of Quantitative Methods
B.S., Adelbert College of Western Reserve University; M.A., Graduate School of Western Reserve University
- McOLASH, FRANCIS J. (1962).....Assistant Professor of Education
B.A., Macalester College; B.D., Bethel Theological Seminary; Ph.D., University of Southern California

- PARKS, DAVID R. (1959) Associate Professor of Education
B.S., M.S., University of Southern California
- PATTERSON, PIERCE E. (1959) Assistant Professor of Education
B.S., Montana State College; M.A., San Diego State College
- PIERNO, ANTHONY R. (1961) Assistant Professor of Management
B.A., Whittier College; LL.B., Stanford Law School
- REAMS, L. MAXINE (1962) Assistant Professor of Journalism
B.A., State University of Iowa
- RICHARDSON, HAROLD E. (1963) Assistant Professor of English
B.A., M.A., Eastern Kentucky State College; M.A., University of Southern California
- RIZZARDI, FRANK G. (1962) Associate Professor of Management
B.B.A., M.B.A., University of Michigan
- SCHAFER, RAY E. (1962) Assistant Professor of Quantitative Methods
B.S., University of Akron; M.B.A., Western Reserve University
- SCHEID, PHIL N. (1961) Associate Professor of Psychology
B.A., B.S., Illinois Institute of Technology
- SCHMIDT, MERCEDES W. (1962) Librarian II
B.A., Evanston Community College; B.Mus., Northwestern University; M.A., University of Illinois
- SMITH, PHYLLIS H. (1962) Librarian II
B.A., B.L.S., University of Buffalo
- SMITH, TOM E. (1959) Assistant Professor of Education
B.A., Whittier College; M.A., Claremont Graduate School
- STOCKS, WILLIAM D. (1962) Assistant Professor of Education
B.A., San Jose State College; M.A., University of Redlands; Ed.D., University of Southern California
- WAGNER, EDYTHE E. (1960) Assistant Professor of Music
B.S., Julliard School of Music; M.Mus., University of Southern California
- WHITLO, CHARLES M. (1962) Professor of Marketing
B.S., University of North Dakota; M.S., New York University; Ph.D., University of Illinois

COLLEGE COMMITTEES 1962-63

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STANDING COMMITTEES OF THE FACULTY COUNCIL 1962-63

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 Willis E. McNelly

Donal R. Michalsky
 John B. O'Toole
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Committee on Student Affairs

James A. McCleary, Chairman
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 Arthur D. Earick
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PREPROFESSIONAL AND PROFESSIONAL COLLEGE COMMITTEES 1962-63

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Ernest A. Becker

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Donald D. Sutton

Teacher Education Committee

Arthur D. Earick, Chairman
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John W. Olsen
Frank L. Roberts
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C. Elmer Schneider

The President of the College and the Chairman of the Faculty Council are ex-officio members of all faculty committees.

ADVISORY COMMITTEES

Engineering Advisory Committee

John R. Moore, Chairman
Anaheim, California
Nicholas A. Begovich
Fullerton, California
Willard Key
Anaheim, California

Paul H. Reedy
Anaheim, California
Wendell B. Sell
Los Angeles, California
Warren E. Wilson
Claremont, California

Humanities Advisory Committee

Miss Louise E. Dowlen
Costa Mesa, California
Charles L. Ford
Costa Mesa, California
James N. Hines
Fullerton, California

Oscar E. Littleton
Long Beach, California
Fred B. Myers
Newport Beach, California
William F. Smith
Fullerton, California

Scholarship Advisory Committee

Dr. Clair G. Blauvelt
Corona del Mar, California
Mrs. Dorman L. Commons
Fullerton, California
Mrs. Eugene L. Kinsbury
La Habra, California

Daniel L. Stack
Fullerton, California
H. Nelson Warren
Fullerton, California
Duane Winters
Fullerton, California

Teacher Education Advisory Committee

Mrs. Zoe Rae Barlow
Balboa Island, California
Thomas Burns
Placentia
Mrs. Nina Decker
Garden Grove, California
J. Frank Gruenfelder
Santa Ana, California

Milton Sanden
Santa Ana, California
Robert E. Shanks
Anaheim, California
Mrs. Harold Sprague
Garden Grove, California
Mrs. Avery Streech
Fullerton, California

ORANGE STATE COLLEGE

Dr. Ernest G. Lake
Fullerton, California
Ken Mackay
Fullerton, California
Leslie Miller
Costa Mesa, California
Stan Ostling
Santa Ana, California
Mrs. Mary Reed
Fullerton, California
William Rickel
Anaheim, California

Thomas Trawick
Santa Ana, California
Mrs. Mignon Waters
Garden Grove, California
Dr. Norman E. Watson
Costa Mesa, California
K. E. Whiteneck
Newport Beach, California
Dr. Elizabeth V. Wright
Fullerton, California

THE CALIFORNIA STATE COLLEGES

The California State Colleges are a unique development of the democratic concept of tuition-free 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 in the planning stage) represent the largest system of public higher education in the Western Hemisphere and, one of the largest in the world. Current enrollment is some 118,000 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.

The California State Colleges are dedicated to rigorous academic standards. Constant striving for academic excellence is at the heart of the system. Each faculty within the system is a 'teaching faculty' whose primary responsibility 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 scheduled to begin operation with the next three years. Enrollment in the system is expected to reach 180,000 by 1970.

PHILOSOPHY AND OBJECTIVES OF ORANGE STATE 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, Orange State 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.

2. 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.
 3. 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 41.)

HISTORY OF ORANGE STATE COLLEGE

Orange County is situated on a coastal plain southeast of the City of Los Angeles. A decade ago the county was thought of 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. Between 1950 and 1962, the population grew 291.4% to a total of 846,287 persons. Forty-eight percent of the population is under 25 years of age. During the decade preceding 1962, school enrollments grew 335%, vehicle registration gained 227%, and there was an increase of 272% in the assessed valuation. 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 nearly two million by 1980.

The first six months of 1962 saw the use of 1,447 acres of land change from agriculture to subdivisions, business and industry, freeways, and schools. The electronics industry is the leader in growth among industries and businesses in the county.

Orange State College 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 Pioneer Avenue, on the west by State College Boulevard (formerly Cypress Avenue), on the south by the extension of Nutwood Avenue, and on the east by the proposed north-south 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 California 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 four years, the average annual enrollment has grown from 466 to 2,540 individuals. Envisioned are average annual enrollments of 7,750 in 1967-68; 15,000 in 1972-73; 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 Science Building, was completed in 1963. Thereafter, other permanent buildings will be opened in approximately the following order: Music-Speech-Drama building and Gymnasium, 1965; Library, 1966; Art building and Cafeteria, 1967; General Classroom building, Health Center, Administration building, 1968; and Engineering building in 1969. Additional buildings are being planned for the future.

ACCREDITATION

Orange County State College is fully accredited by the Western Association of Schools and Colleges, Western College Association, 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 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 Science Building. It occupies an area of approximately 30,000 square feet. Seating is provided for 390 persons. Group study rooms, a typing room, carrells, and individual and group music listening spaces are available.

The main book collection will contain about 53,000 volumes at the beginning of the 1963-64 academic year. During the year about 12,000 volumes will be added to it. The Library also has a collection of about 6,500 volumes of sample elementary and secondary text books and juvenile literature, and a collection of about 2,000 pamphlets.

The Library is a selective depository for U.S. Government documents. This collection will reach a total of about 5,000 items in the course of the academic year. The Library is also a depository for the pilot program of the California Curriculum Project. This collection, combined with previously purchased materials, will contain about 1,200 items.

In addition to these collections the Library has about 4,000 reels of microfilmed U.S. Government documents, chiefly State Department records, but also including such things as the Congressional Record, about 4,000 reels of other microfilmed materials, mostly files of newspapers and periodicals, and about 1,000 volumes on micro-opaque cards. Readers for these materials are available in the Periodicals and Documents area.

The Library subscribes to about 1,200 periodicals. In addition to the filmed backfiles mentioned above, this collection contains about 2,500 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 and Melville. 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 available at all times to aid students and faculty in the use of all library resources.

SUMMER SESSION

The College conducts a six-week summer session which begins one week after the close of the spring semester, followed by a four-week post-session. Day and evening classes are scheduled and credits earned in the summer session 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 \$11.50 per unit (subject to change) is charged. The Summer Session Class Schedule announcing all courses is published in March 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 Session.

THE ORANGE STATE COLLEGE FOUNDATION

The Orange State College Foundation has been organized to provide essential student and faculty services which cannot be provided for from state appropriations. The Foundation was incorporated in October 1959. The Board of Trustees is made up of members of the college faculty and administration.

The Foundation has an over-all policy control of the College book store and food service. In order to allow students a means of participating in the formulation of the policies for the book store and food service, the Foundation Board has delegated specific responsibilities in these areas to committees with student members.

Among the services the Foundation provides for students are a residence hall program, a well-stocked book store, a complete food service, student loans, scholarships, opportunities to assist members of the faculty in sponsored research and special internship, and experience programs that cannot be financed with state funds.

STUDENT PERSONNEL SERVICES

Student services of Orange State College are centered in the Office of the Dean of Students. The major divisions are admissions and records, counseling and testing, student activities, health services and student placement. Housing, part-time employment, intercollegiate and intramural athletics, and other similar concerns are also the direct responsibility of this office.

STUDENT ACTIVITIES

The faculty of the College recognizes the important role of student activities in the growth and development of young people in our society. The scope of the activities program includes areas of interest to both day and evening students attending the College. Every student is encouraged to participate in as many activities as his free time allows.

All registered students are members of Associated Students of Orange State College. The governing body of Associated Students is the Student Council which meets weekly to initiate, organize, and administer the student government program. The Student Council is responsible for the disbursement of student body fees for such activities as student publications, intercollegiate athletics, intramural athletics, forensics, music, social affairs, and student body organizations.

Student Organizations

Student organizations are encouraged and aided by the College whenever students express a desire for activities which will add to the educational opportunities of the College. Present organizations include special interest, service, social, honorary, Greek, and religious organizations: the Art Club, Associated Women Students, Baseball Club, Christian Science Organization, Circle K, Delta Chi Delta (social sorority), Delta Tau Upsilon (social fraternity), Democrats Club, Deutscher Verein, Elephant Racing Club, Forensics Club, International Relations Club, Literary Society, Oracles (men's service), Oral-Interpretation Club, Orange State Education Association, Music Educators Association, Phi Alpha Theta (honorary history), Pi Kappa Delta (honorary speech), Sigma Phi Omega (social fraternity), Society for the Advancement of Management, Newman Club (Catholic), Titan Christian Fellowship (non-denominational), Titan Hall (residence hall), Young Republicans, and Zeta Phi Lambda (social sorority).

Student Publications

The weekly College newspaper, the Titan "Times," and the Orange State College magazine, published three times a year, are products of the journalism classes. In addition, a student handbook and an organizational handbook are available for distribution. The "Promethean," a literary magazine, is also published by students.

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 in part by a budgeted allocation from Associated Students and in part by scholarships from newspaper publishers.

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,

basketball, tennis, golf and baseball. Of outstanding note is the basketball team which is garnering national recognition for its exceptional athletic achievements. Home games are played in the Fullerton Junior College gymnasium. As an independent in athletics, the College is afforded flexibility in scheduling athletic contests with many colleges and universities 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 Orange State College. 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, with the exception of baseball, compete under rules of the National Collegiate Athletic Association (NCAA). Membership is also held in the National Association of Intercollegiate Athletics (NAIA).

Alumni

During 1961, the Alumni Association was formed to help keep graduates informed of activities and development of the College and to provide communication among the members of the Association. The yearly Homecoming is the high point of alumni activities.

Housing

In addition to Titan Hall, which accommodates 17 men students, it is expected that a residence hall for 200 men and women students will be completed for the Fall 1963 semester. Other residence halls are in the planning stage. A list of rooms, apartments and houses for rent in the community has been prepared by the Office of Student Activities, and is available to students who may desire lodging adjacent to the campus.

Other Activities

Each semester the Music Department presents choral and instrumental performances open to the members of the college and community. The Speech and Drama Department produces one-act plays in addition to a regular three-act play each semester. The Forensics team has an active program and participation and achievements has gained wide spread recognition in collegiate circles.

STUDENT HEALTH SERVICES

The Student Health Center is open from 8:30 a.m. until 4:30 p.m. Under the direction of the College Physician, emergency treatment is available and health examinations for credential purposes are given. Also an immunization program is offered. Any student requiring followup medical care as recommended by his personal physician may obtain such services through the Health Center. 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 examinations may have them completed by their own physicians if desired. Otherwise, appointments for this purpose may be made in the Student Health Center.

Health, Accident, Hospital Insurance

Application forms for supplementary health, accident, and hospital insurance, such as is available on a voluntary basis at low premium through the Student Activities Office, are recommended to be obtained by all students. This type of coverage is suggested since the cost of medical care is usually highest in the category of major illness or injury which is beyond the scope of campus services.

Night Services

No staff is available for night services of any kind, and there are no off-campus calls made at any time.

OFFICE OF PLACEMENT SERVICES

The Office of Placement Services serves the student during his college years, as well as at the time of graduation.

Part-time Placement

Assistance in securing part-time employment, needed by many to complete their education, is given by this office. Students wishing part-time work, either on or off campus, must register for such employment at the beginning of *each* semester. Secretarial skills are in most demand, but calls come for school bus drivers, custodians, clerks, youth leaders, tutors, sitters, gardeners, etc.

Teacher Placement

For students who are in the final semester of the teacher education curriculum, the Placement Office provides a distinctive set of services, looking toward employment by the school districts. One such service is to gather and keep current a personal file of professional information, which is copied and mailed to employing districts, on request. Another service is to receive and make available information on teacher openings.

Business, Industry and Government Placement

The Office's service to students seeking business or public service careers involves assistance in defining occupational preference, providing active job leads, making up resumes, and arranging interviews, either on or off campus.

COUNSELING CENTER

From time to time, all students need assistance in solving educational, vocational, or personal problems. Orange State College provides assistance in these matters through the advisement, counseling, and testing programs.

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 and Psychology.

Graduate students in all divisions, except Education and Psychology, will be assigned a major adviser. In Education and Psychology, 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.

Coordination of the advisement program is under the direction of the Associate Dean of Students, Counseling and Testing.

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 professional counseling staff has 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

The testing programs at Orange State College are designed to serve a variety of purposes.

1. The primary purpose is that of giving advisers 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.
3. A third use is that of identifying students who have deficiencies in specific skills, such as composition, reading, 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.

FINANCIAL AIDS

Scholarships

A limited number of scholarships are available for outstanding upper division and graduate students. No scholarship funds exist at present for freshmen. Qualified students should obtain scholarship applications from the Counseling Center and return by April 15 for the Fall semester and December 15 for the Spring semester. Scholarship applications are carefully evaluated by the Scholarship and Loan 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 Orange State College, a small 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 Student Loans

Orange State College 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.

Entering freshmen as well as students in advanced standing in any field of study are eligible to apply, although the law provides that special consideration shall be given to (a) students with superior academic background who express a desire to teach in elementary or secondary schools, and (b) students whose academic background indicates a superior capacity or preparation in science, mathematics, engineering, or a modern foreign language.

The maximum loan to one individual is \$1,000 in any one year and no more than \$5,000 total. The average loan at Orange State is usually less than the maximum. Loans must be repaid with 3 percent interest over a period of 10 years beginning one year after the individual ceases to be a full-time student. Full-time elementary or secondary school teachers may have up to 50 percent of the loan cancelled upon verification of teaching status.

Applications for the NDSL program are available from the Financial Aids officer April 1 to April 30 for the Fall semester, and November 2 to November 30 for the Spring semester. While loans may be granted after the above dates, early application is encouraged.

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 monthly installments beginning four months after he leaves school. Interest maximum is 6% simple. Applications and information are also available from the Financial Aids officer.

ADMISSION TO THE COLLEGE

Freshman admission requirements as adopted by the Trustees of the California State Colleges are stated in the California Administrative Code, Title 5, Chapter 5, Subchapter 2, Article 3, Paragraph 40800.1. Transfer students are governed by Article 4 of the same section, Paragraphs 40901 and 40902.

Undergraduate Student Requirements

1. ADMISSION WITH FRESHMAN STANDING

For admission to Orange State College, a high school graduate must, as a minimum, meet *one* of the following:

- (a) Have earned 14 or more semester grades of A or B (70 semester periods or 7 Carnegie units) on a five-point scale in subjects other than physical education, military science, and remedial courses during the last three years in high school, including *at least* 10 college preparatory subject grades. College preparatory courses include one or more of the following fields:
 - (1) English, including speech, drama, and journalism, other than activity courses
 - (2) Foreign languages
 - (3) Mathematics
 - (4) Natural Sciences
 - (5) Social Sciences
- (b) Have earned ten or more semester grades of A or B (50 semester periods or 5 Carnegie units) on a five-point grading scale in subjects other than physical education, military science, and remedial courses during the last three years in high school and have attained the *fortieth* percentile on national college freshman norms of a standard college aptitude test.
- (c) An applicant may be admitted when, in the judgment of the appropriate College authorities, he has equivalent preparation to that in (a) or (b) above.

2. ADMISSION WITH ADVANCED UNDERGRADUATE STANDING

Students will be admitted as advanced undergraduates to Orange State College if they meet one of the following requirements:

- (a) The applicant was eligible for admission in freshman standing on the basis of his high school record (based on Freshman admission requirements in effect at the time of graduation from high school) *and* has completed 54 semester units of college credit with a grade point average of 2.0 (grade C on a five-point scale) in one or more accredited degree-granting colleges or universities.
- (b) If the applicant was *not* eligible for admission in freshman standing on the basis of his high school record, he must have completed 60 semester units with a grade point average of 2.0 (grade C on a five-point scale) in one or more accredited colleges or universities.
- (c) An applicant who does not meet the above requirements is eligible for admission with advanced undergraduate standing on probation if in the opinion of the proper College authorities he can succeed in college.

N.B. *Since no sophomore class has been authorized for this year, students who have completed 12 or more semester units of college work but do not meet one of the above unit minimums will not be eligible for admission to Orange State College for the academic year 1963-1964.*

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 Orange State College a transcript of record.
- (3) Have *each* college attended (if any) send directly to Orange State College a transcript of record.
- (4) Submit the scores from *one* of the two national testing programs described below.

Undergraduate Entrance Examinations

ALL undergraduate students, who are applying for admission to Orange State College for the first time, are required to submit scores from ONE of two national testing programs *before permission to enroll in classes will be granted.*

AMERICAN COLLEGE TESTING PROGRAM (ACT)

Test Dates

June 22, 1963
November 9, 1963
February 15, 1964
April 25, 1964
June 20, 1964

Address inquiries to:

Dr. Robert T. Littrell
Coordinator, Southern California
American College Testing Pro-
gram
Box 6758
Long Beach 15, California

SCHOLASTIC APTITUDE TEST (SAT)

Test Dates

November 2, 1963
December 7, 1963
January 11, 1964
March 7, 1964
May 2, 1964
July 8, 1964

Address inquiries to:

College Entrance Examination
Board
Educational Testing Service
4640 Hollywood Boulevard
Los Angeles 27, California

Tests will be administered at *established test centers* throughout the United States on the dates shown above. Candidates should register at least one month in advance. Information regarding test centers, advance registration, fees, and registration forms may be obtained from high school and junior college counselors or from one of the addresses above. Close of registration for the above tests is usually about three weeks in advance.

It is the student's responsibility to indicate on the test registration form that he wishes the scores sent to Orange State College. If either of the above tests has already been completed, the student must correspond directly with the appropriate testing agency and request that scores be sent to the Office of Admissions, Orange State College.

Additional tests may be required for placement in undergraduate classes and for admission to public school credential and other graduate programs. Information about the specific requirements will be released from the Testing Center and the Division Offices concerned at appropriate times.

Graduate Students Requirements

A student who has earned an acceptable bachelor's degree from an accredited college or university may be admitted in unclassified graduate status. Admission with unclassified graduate status does not constitute acceptance as a master's degree candidate.

Courses at the 400 and 500 level completed by students in graduate unclassified status may not be applied to a master's degree program at Orange State College until all of the following conditions have been met:

- (1) Orange State College has been approved for and offers a master's program in the field in which the student is taking work.
- (2) The student qualifies for graduate classified status. This status may not be granted until the master's degree program is offered.
- (3) The course or courses have been approved as a part of the program for the master's degree. This approval may not be granted until the student has been admitted to graduate classified status.

Procedures for Admission (Graduate Students)

- (1) Students planning to work toward a degree or credential at Orange State College will follow the same procedure shown for undergraduate students with the exception that no high school transcript need be submitted.
- (2) Students *not* planning to work toward a degree or credential at Orange State College and wishing to take a *maximum of 6 units* any semester will submit the following:
 - (a) A completed Application for Admission accompanied by required \$5.00 application fee
 - (b) Satisfactory *proof of degree*, e.g. college diploma
 - (c) No evaluation of transfer credit will be given to such students and no regular advisement is offered. Students desiring advisement should follow the procedure listed immediately above in paragraph No. 1.

Admission of Foreign Students

Special application forms are required of foreign student applicants. Such forms and directions for their use may be obtained from the Office of Admissions.

Students from other countries are required to submit with their applications evidence of competence in the English language, a medical certificate of health, and evidence of financial resources adequate to provide for all expenses during the period they expect to be registered as students in the college.

Transcripts required are the same as for other applicants. It should be noted, however, that foreign language transcripts *must* be accompanied by certified English translations.

Special counseling problems of foreign students after they have been admitted are the responsibility of the Foreign Students Adviser in the Counseling Center.

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

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 Orange State 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 and Psychology during their first semester of attendance. Details are available from the Division of Education and Psychology.

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. Students who have attended another institution since their last attendance at Orange State College must have a transcript of record from that institution sent directly to the Office of Admissions.

EVALUATIONS

Evaluation of Transfer Credits

The Office of Admissions will evaluate previous college work in terms of its relationship to the requirements of Orange State College. 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.

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 Orange State College within limitations of residence requirements, junior college transfer maximums, and course applicability.

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.

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. 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 \$ 5.00

Registration Fees

Regular Students

Materials and service fee \$38.00
 Associated Students fee 9.00
 Total per semester 47.00

Limited Students (1-6 units)

Materials and service fee \$19.50
 Associated Students fee 4.00
 Total per semester 23.50

Summer Session

Per unit or fraction of unit 11.50
 Associated Students fee 2.00

Extension

Per unit or fraction of unit \$10.00-20.00

Music Studio Lesson Fee

Per semester 70.00

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 \$247.50
 Less than 15 units, per unit or fraction of unit 16.50

* The Application Fee is not refundable.

Late registration fee (in addition to other fees listed above)	5.00
Change of program fee	1.00
Check returned from bank for any cause	2.00
Transcript fee (no charge for first copy)	1.00
Failure to meet administratively required appointment or time limit (special aptitude examination, failure to keep appointments for health examination, special final examinations, failure to return overdue books after request by library to do so)	2.00

Auditors Pay the Same Fees as Others
(Fee Schedule Subject to Change by State Authority)

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 shall be retained to cover the cost of registration. Late registration fees, the change of program fees, as well as the application fee are not refundable.

The entire fee may be refunded in the event a student is unable to continue his registration because of certain college regulations 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.

The difference between the applicable materials and service fee, less \$2, 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.

Parking Fees

Non-reserved Spaces

Regular students (over 6 units) per semester \$13.00

Limited students (1 to 6 units) will use the coin operated parking gate.

Coin operated parking gate—controlled spaces per admission .25

Fees for portions of a semester and refunds are pro-rated. Information concerning this is available in the College Accounting Office.

TYPICAL STUDENT EXPENSES

The following is an estimate of the major items of expense for single students attending Orange State College. It is not intended to be an exhaustive list, and it should be recognized that considerable variation exists on living expenses. Amounts shown are for one semester.

Expenses	Students Living in Campus Residence Halls	Students Commuting from Home
Materials and Service Fee*	\$ 47	\$ 47
Other Fees (Parking, Health Insurance)	21	21
Room	200	—
Board	200	—
Books and Supplies	50	50
Clothing	75	75
Laundry and Cleaning	25	25
Recreation	75	75
Transportation for Commuting Students	—	100
Total	\$693	\$393

* Note: Out-of-state students add an additional fee of \$250 each semester.

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

Orange State College 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 OSC.

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.

Subsistence Checks

The subsistence check should be received on the 20th of the month following the month of certification. Under no circumstances should this check be cashed if the amount is more than the veteran should have received. An overpayment accepted by the veteran will cause an indefinite delay or loss of future benefits. If the check has not been received by the end of the month following the month of certification, the veteran should notify the veterans adviser at OSC.

Change of Status

The Veterans adviser at OSC must be notified immediately of any change of address, major, unit load, number of dependents or any other change of status which may affect benefits.

Unit Load and Subsistence

<i>Units</i>	<i>Load</i>	<i>Single</i>	<i>1 Dependent</i>	<i>2 Dependents</i>
14 or more	Full	\$110	\$135	\$160
10 to 13	$\frac{3}{4}$	80	100	120
7 to 9	$\frac{1}{2}$	50	60	80
1 to 6	Less than $\frac{1}{2}$	Fees in monthly subsistence form (total for monthly payments equals amount of fees by the end of the semester).		

Cal Vet

Application

If the veteran *has* attended an institution under Cal Vet benefits before he should obtain the IBM card authorization for training from the Office of Veterans Affairs at the last institution attended under Cal Vet benefits. This IBM card must be filed with the veterans adviser at OSC.

If the veteran has *not* attended an institution under Cal Vet benefits before, the application forms may be obtained from the Veterans Adviser at OSC.

Payment of Fees

If the veteran has filed his IBM authorization card with the veterans adviser at OSC prior to or at registration, the fees will be paid by the State. If the veteran files the IBM authorization card *after* registration, he may receive a check to cover the fees upon direct application to Cal Vet. The application for refund may be obtained from the Veterans Adviser.

Maintenance Allowance

If the veteran is registered for a full load (12 semester units) at OSC, he may receive approximately \$50 a month from Cal Vet as a maintenance allowance.

Enrollment Attendance Certificate

When the veteran registers, he must complete an enrollment certificate. He must fill out an attendance certificate on the 15th of each month only if he is receiving the maintenance allowance.

Veterans Attending Under Other State or Federal Legislation

Veterans anticipating attendance at OSC under other state or federal legislation should see the Veterans Adviser for further information.

Dependents of Disabled or Deceased Veterans

Dependents of disabled or deceased veterans should see the Veterans Adviser for information concerning state and federal legislation which provides for the waiver of fees or for educational benefits.

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 1963-1964 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 college must complete a *Withdrawal From College* card in the Counseling Center. The student will then be directed to the Office of the Registrar where his official withdrawal becomes complete.

All grades for withdrawal through the first six weeks of instruction of the semester will be W. Beginning with the seventh 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 Orange State 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.

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	Grade Point Value
C _____	2
B _____	3
A _____	4
Cr _____	None assigned
Unsatisfactory Grade	
D _____	1
F _____	0
Special Grade	
E (Incomplete) _____	0
AU (Auditor) (no credit toward degree or credential) _____	None assigned
W (Passing withdrawal) _____	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 his 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 Orange State 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, division chairman, and Dean of Instruction. Under such circumstances, an incomplete grade will be recorded for the course.

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 may 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.

GENERAL GRADUATION REQUIREMENTS

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

(See following pages).

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. 23-24 in the Introductory pages)

To be eligible for the bachelor's degree at Orange State College, the candidate shall have completed 50 semester units of general education including at least 6 units in upper division courses. The courses in general education shall be distributed in the following manner:

(a) Social Sciences	Minimum Units
	12

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.
2. Political Science 210 (3) or a combination of Political Science 200 (3) and Political Science 311 (3)—meets the state requirement 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. Geography 131 (3), Sociology 201 (3)
 - b. Geography 111 (3), Geography 131 (3), History 110A (3), History 110B (3), History 170A (3), History 170B (3), Political Science 200 (3), Political Science 331 (3), Political Science 340 (3), Political Science 351 (3), Sociology 201 (3) or Sociology 202 (3).

(b) Natural Sciences	9
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Courses in the Natural Sciences shall include:

1. Biological Science 100 (2) and Biological Science 140 (3) or Biological Science 160 (3)
2. A minimum of 4 units from the following: Chemistry 201 (4-5), Physics 201 (4-5), Chemistry 101A,B (5-5), Physics 221 (4) or Physics 222 (5).

(c) Humanities	12
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Courses in the Humanities shall include:

1. English 101 (3) and English 102 (3)
2. A minimum of 6 additional units required, consisting of three units each from the two groupings below.
 - a. Philosophy 101 (3), Philosophy 201 (3), Philosophy 301 (3), Philosophy 401 (3), Philosophy 411 (3)
 - b. English 221 (3), English 222 (3), English 334 (3), English 411 (3), Comp. Lit. 315 (3), Comp. Lit. 425 (3), or any upper division course in French, German or Spanish.

(d) Fine and Applied Arts	9
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Courses in the Fine and Applied Arts shall include:

1. A minimum of 3 units from the following: Speech 101 (3), Speech 231 (3) or Drama 211 (3)
2. A minimum of 6 additional units required which shall include at least one course from two of the following groups:
 - a. Art 100 (3), Art 101 (3), Art 103 (3), Art 104 (3), Art 107A,B (3-3), Art 111 (3), Art 401 (3), Art 402 (3)

Minimum
Units

b. Drama 271 (3), Drama 272 (3)	
c. Music 100 (3), Music 151A (2), Music 151B (2), Music 350 (3), Music 451 (2), Music 452 (2).	
(e) Psychology	3
Psychology 201 (3)	
(f) Economics or Mathematics	3
A minimum of 3 units from the following:	
Economics 200 (5), Economics 201 (3), Economics 200A (3), Eco- nomics 200B (3), Mathematics 120 (3), Mathematics 150A (4), Mathe- matics 100A (3), Mathematics 250A (3), or any upper division mathe- matics course.	
(g) Health and Physical Education	2
A minimum of 2 units required by completing four semesters of activity courses which include instruction in health education. A physi- cal education activity course taken in the summer session may be counted in lieu of a semester. Not more than one activity course within any one semester may be counted toward general education. (Persons who are over 25 years of age are not required to enroll for courses in physical education.)	
Total	50

(These requirements will apply to students entering college in the fall semester of 1963 and thereafter.)

General Education Program for Transfer Students

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

To be eligible for the bachelor's degree from Orange State 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:

(a) Social Sciences	12
The social sciences shall include required instruction in U.S. History, U.S. Constitution, California State and Local Government and American ideals, and courses in the subject fields of: anthropology, economics, geography, history, political science, sociology, and similar fields. Courses must be selected from two or more of these fields.	
(b) Natural Sciences	9
The natural sciences shall include the fields of astronomy, botany, chemistry, geology, physics, physiology, zoology, and similar fields. At least one course must be selected from a physical science and one from a life science.	
(c) Humanities	12
The humanities shall include a year of instruction in college-level English composition and literature. The remaining units may be chosen from the following subject fields: comparative literature, English, philosophy, and advanced courses in French, German, Spanish, or other foreign languages.	
(d) Fine and Applied Arts	9
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.	

*Minimum
Units*

(3) Psychology _____	3
This should be the standard introductory course in psychology.	
(f) Economics or Mathematics _____	3
Either a course in college mathematics which would have as its prerequisite a minimum of two years of high school mathematics or its equivalent, <i>or</i> a college-level introductory course in economics will meet this requirement.	
(g) Health and Physical Education _____	2
In addition to physical education activity, instruction in health education is required.	
Total _____	50

(These requirements will apply to students entering college in the fall semester of 1963 and thereafter.)

(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

SCHOLASTIC REGULATIONS

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.

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 Orange State College falls below a C (2.0).
- (3) Where the record shows below a C (2.0) average in any one semester or summer session regardless of the cumulative grade point average.

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* and action will be taken before the next semester begins. Records will be reviewed individually.

- (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 Orange State 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 Orange 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.
- (3) A C (2.0) grade point average is attained on the last semester or summer session of work attempted.

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.

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 Orange State 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 at a regular meeting of the Faculty Committee on Student Affairs, or at a special meeting if the matter is deemed urgent. Such requests should be filed in the Office of the Dean of Students who will schedule a hearing at the earliest possible time.

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

Courses	Divisions
Accounting	Business Administration and Economics
Art	Fine and Applied Arts
Art Education	Fine and Applied Arts, Education and Psychology
Biological Science	Science, Mathematics and Engineering
Business Education	Business Administration and Economics, Education and Psychology
Chemistry	Science, Mathematics and Engineering
Comparative Literature	Humanities
Economics	Business Administration and Economics
Education—Administration and Supervision	Education and Psychology
Education—Elementary	Education and Psychology
Education—Foundations	Education and Psychology
Education—School Services	Education and Psychology
Education—Secondary	Education and Psychology
English	Humanities
English Education	Humanities, Education and Psychology
Finance	Business Administration and Economics
Foreign Languages Education	Humanities, Education and Psychology
French	Humanities
Geography	Social Sciences
German	Humanities
Health, Physical Education and Recreation	Education and Psychology
History	Social Sciences
Journalism	Humanities
Journalism Education	Humanities, Education and Psychology
Language Arts	Humanities, Fine and Applied Arts
Management	Business Administration and Economics
Marketing	Business Administration and Economics
Mathematics	Science, Mathematics and Engineering
Mathematics Education	Science, Mathematics and Engineering, Education and Psychology
Music	Fine and Applied Arts

CURRICULA OFFERED

Orange State College has been authorized to offer the following degree programs. A full description of each major degree program appears later in this catalog.

B.A.—Art	B.A.—Language Arts
B.A.—Biological Science	B.A.—Mathematics
B.A.—Business Administration	B.A.—Music
B.A.—Chemistry	B.A.—Philosophy
B.A.—Economics	B.A.—Physics
B.A.—English	B.A.—Political Science
B.A.—French	B.A.—Psychology
B.A.—Geography	B.A.—Social Sciences
B.A.—German	B.A.—Sociology
B.A.—History	B.A.—Spanish
B.A.—Humanities	B.A.—Speech

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

Courses	Divisions
Accounting	Business Administration and Economics
Art	Fine and Applied Arts
Art Education	Fine and Applied Arts, Education and Psychology
Biological Science	Science, Mathematics and Engineering
Business Education	Business Administration and Economics, Education and Psychology
Chemistry	Science, Mathematics and Engineering
Comparative Literature	Humanities
Economics	Business Administration and Economics
Education—Administration and Supervision	Education and Psychology
Education—Elementary	Education and Psychology
Education—Foundations	Education and Psychology
Education—School Services	Education and Psychology
Education—Secondary	Education and Psychology
English	Humanities
English Education	Humanities, Education and Psychology
Finance	Business Administration and Economics
Foreign Languages Education	Humanities, Education and Psychology
French	Humanities
Geography	Social Sciences
German	Humanities
Health, Physical Education and Recreation	Education and Psychology
History	Social Sciences
Journalism	Humanities
Journalism Education	Humanities, Education and Psychology
Language Arts	Humanities, Fine and Applied Arts
Management	Business Administration and Economics
Marketing	Business Administration and Economics
Mathematics	Science, Mathematics and Engineering
Mathematics Education	Science, Mathematics and Engineering, Education and Psychology
Music	Fine and Applied Arts

Music Education	Fine and Applied Arts, Education and Psychology
Philosophy	Humanities
Physics	Science, Mathematics and Engineering
Political Science	Social Sciences
Psychology	Education and Psychology
Quantitative Methods	Business Administration and Economics
Russian	Humanities
Science Education	Science, Mathematics and Engineering, Education and Psychology
Social Sciences	Social Sciences
Social Science Education	Social Sciences, Education and Psychology
Sociology	Social Sciences
Spanish	Humanities
Speech	Fine and Applied Arts
Speech Education	Fine and Applied Arts, Education and Psychology

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. Students may be required to take certain courses in the following order: English, Mathematics, and Social Sciences.

In our rapidly changing, complex society, the managers of our future must be well educated. The breadth of understanding and vision, the student who graduates from a college is 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 personal 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 freshmen, or those 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 for the semester of the first year.

Students enrolled in the division and working toward a college degree are subject to the rules and requirements of the college as to conduct and academic progress.

BACHELOR OF ARTS DEGREE IN BUSINESS ADMINISTRATION

The degree requirements are as follows:

1. Completion of a minimum of 30 semester credit hours in business administration and economics courses in the Division of Business Administration and Economics, of which 35 semester credit hours must be upper division courses.
2. Completion of at least 15 semester credit hours in the Division of Business Administration and Economics at Orange State College.
3. Completion of the required core courses in the Division of Business Administration and Economics. Students in Business Administration are required to take Mathematics 120 (Finite Mathematical) or equivalent as prerequisite to Quantitative Methods 361.
4. Completion of 12 semester credit hours of required courses in an area of concentration to be selected by the student.

GENERAL COURSE NUMBERING CODE

- 1- 99 Courses which carry no credit toward a degree or credential
- 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
- 500-599 Courses on the graduate level

Note: The figure in parentheses following each course title indicates the number of semester units. The F and S (abbreviations for Fall and Spring) after the parentheses indicate when a course is offered.

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.

DIVISION OF BUSINESS ADMINISTRATION AND ECONOMICS

Professors: Smith (Chairman), Carr, Tull, Wiseman

Associate Professors: Barres, Li, McCloud, Roberts

Assistant Professors: Fyfe, Graves, Pontney, Woo
(1962-1963 Faculty)

Through a study of the various theoretical and practical business policies and procedures, the Division 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 division 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:

1. Completion of a minimum of 50 semester credit hours in business administration and economics courses in the Division of Business Administration and Economics, of which 35 semester credit hours must be upper division courses.
2. Completion of at least 15 semester credit hours in the Division of Business Administration and Economics at Orange State College.
3. Completion of the required core courses in the Division 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.
4. Completion of 12 semester credit hours of required courses in an area of concentration to be selected by the student.

5. 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 Division 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 Principles of Economics	5
Accounting 200 Elementary Accounting	5
Finance 332 Business Finance	3
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
Total	31

* 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 (Chairman, Wiseman)	Units
301A-301B Intermediate Accounting	6
302 Cost Accounting	3
And at least one of the following courses:	
303 Governmental Accounting	3
308 Federal Income Tax	3
401 Advanced Accounting	3
402 Auditing	3
Business Economics (Acting Chairman, Roberts)	
302 Intermediate Economic Analysis	3
303 Intermediate Economic Analysis	3
402 Monetary and Fiscal Policy	3
Management 446 Managerial Economics	3

Finance (Chairman, Wiseman)	Units
324 Money and Banking	3
432 Investment Principles and Practices	3
433 Problems in Finance	3
Accounting 304 Managerial Accounting	3
Management (Chairman, Barres)	
342 Production Management	3
343 Personnel Management and Human Relations	3
444 Motion and Time Study	3
446 Managerial Economics	3
Marketing (Chairman, Tull)	
353 Marketing Administration	3
452 Marketing Research	3
459 Marketing Problems	3

A minimum of one of the following courses:

	Units
307 Distribution Costs	3
354 Principles of Advertising	3
355 Credit and Credit Administration	3
356 Creative Motivation	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 Division of Business Administration and Economics and the secondary school teacher education program including the requirements for the proper credential as outlined in the catalog.

	Units
Core requirements for all students majoring in Business Administration (see page 107)	31
Geography 203 Economic Geography	3
Course in Typewriting *	2
Course in Business Machines *	2
Accounting as an area of concentration (see page 109)	12
Nine or ten units in one of the following areas:	9-10
Management	
Marketing	
Secretarial training *	
Total	59-60

BACHELOR OF ARTS DEGREE IN ECONOMICS

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:

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

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

Lower Division

Course	Units
Economics 100 American Economic History	3
Economics 200 Principles of Economics	5
Accounting 200 Elementary Accounting	5
Total	13

* Orange State College does not offer work in secretarial training, typewriting, or business machines. Consult the Chairman of the Division of Business Administration and Economics to arrange for transfer of approved courses to satisfy these requirements.

Upper Division

Course	Units
Economics 302 Intermediate Economic Analysis	3
Economics 303 Intermediate Economic Analysis	3
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 Division of Business Administration and Economics to be approved by the student's major adviser	6
Total	24

MINOR IN ECONOMICS

A minor in Economics may be achieved by taking the following courses:

Economics	Units
100 American Economic History	3
200 Principles of Economics	5
302 or 303 Intermediate Economic Analysis	3
401 or 402 Government and Business or Monetary and Fiscal Policy	3
403 Comparative Economic Systems	3
Elective	3
Total	20

BUSINESS ADMINISTRATION AND ECONOMICS COURSES**ACCOUNTING****200. Elementary Accounting (5) F**

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.

300g. 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-301B. Intermediate Accounting (3-3) F, S

Prerequisite for 301A: Accounting 200. Prerequisite for 301B: Accounting 301A. 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) S

Prerequisite: Accounting 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, S

Prerequisite: Accounting 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: Marketing 351, Accounting 200. The development of quantitative measures for marketing activity. The costs of distributing through different channels of distribution, advertising vs. personal selling, and movement activities. The development of sales budgets, standard costs, and the analysis of actual performance in the light of budgets and standards.

308. Federal Income Tax (3) F

Prerequisite: Accounting 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) S

Prerequisites: Accounting 301B, 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

Prerequisite: One course in Accounting. 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.

408. Integrated Data Processing Systems (3) S

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.

409. C.P.A. Problems and Review (3) S

Prerequisites: Accounting 401, 402, or concurrent enrollment therein, 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.

498. Independent Study (3) F, S

Prerequisites: Senior standing and an overall 3.25 grade average. Open to qualified undergraduate students desiring to pursue directed independent inquiry.

501. Administrative Accounting (3) F

Prerequisites: Accounting 405, Finance 332, 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 analyses and special reports; financial analyses and planning; the financial and taxation aspects of business decisions.

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.

200A-200B. Principles of Economics (3-3) F, S

(Planned for 1964-65)

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.

300g. Basic Economics (3) F, S

A concentrated study of the principles of economic analysis and policy and the basic economic institutions of the United States. Open only to graduate students.

302. Intermediate Economic Analysis (3) F

Prerequisite: Economics 200 or 201, or 300g, or consent of the instructor. 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 201, or 300g, or consent of the instructor. 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. 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.

326. Labor Economics (3) F

Prerequisite: Economics 200. An analysis of the basic economic influences operating in labor markets: Impact of productivity and labor market organization on resource allocation, income distribution, economic stability, and growth.

401. Government and Business (3) S

Prerequisites: Economics 200, 302, or consent of instructor. A 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 and antitrust policy.

402. Monetary and Fiscal Policy (3) F

Prerequisites: Economics 200, 302. 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

Prerequisite: Economics 200, 301, 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 Germany.

404. The Soviet Economy (3) S

Prerequisite: Consent of the instructor. 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. 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.

451. Economics of Taxation (3) S

Prerequisite: Economics 200 or consent of the instructor. 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. The theory and principles underlying the location of economic activity.

498. Independent Study (3) F, S

Prerequisites: Economic concentration, senior standing, and an overall 3.25 grade average. Open to qualified undergraduate students desiring to pursue directed independent inquiry.

510. Competition, Monopoly, and Public Policy (3) S

Prerequisite: Economics 200, or 300g, 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 300g, 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.

FINANCE**324. Money and Banking (3) F, S**

Prerequisite: Economics 200. 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).

332. Business Finance (3) F, S

Prerequisite: Accounting 200. Types of business organizations, their sources and uses of long-term and short-term capital, and analysis of business finance situations.

334. Principles of Insurance (3) S

Prerequisites: Economics 200, and Quant. Meth. 361. The principles of life, health and accident, liability and social insurance, property and business insurance, and methods of establishing risks and rates.

336. Principles of Real Estate (3) S

Prerequisite: Economics 200. The survey of urban real estate theory and practice; structure and growth of cities, basis of real estate values; zoning for commercial, industrial, and residential areas; financing of real estate transactions.

431. Capital and Money Markets (3) S

Prerequisites: Finance 324 and 332. The role of capital and money markets in the American economy; investment banking and other financial institutions and the flow of funds; the regulation of investment banking, securities markets, and other financial institutions.

432. Investment Principles and Practices (3) F

Prerequisite: Finance 332. 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. Special consideration is given to investment purposes and objectives.

433. Problems in Finance (3) F

Prerequisite: Finance 332. Case studies of problems in the financing of the firm; organization, acquisition, mergers, consolidation, and dissolution; consideration and evaluation of alternative sources of capital of the going concern.

498. Independent Study (3) F, S

Prerequisites: Senior standing and an overall 3.25 grade average. Open to qualified undergraduate students desiring to pursue directed independent inquiry.

MANAGEMENT**341. Principles of Management (3) F, S**

Prerequisite: Economics 200. 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 I (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 II (3) S

Prerequisite: Bus. Law I. 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. Motion and Time Study (3) S

Prerequisites: Management 341, 342. The fundamentals of motion and time study as applied to modern work simplification, the reduction of waste and inefficiency, and the responsible consideration of the employee.

445. Production Control Analysis (3) F

Prerequisite: Mgt. 342, introductory calculus, statistics, and a course in economic principles or consent of the instructor. The quantitative analysis of production and quality management related to such areas as mathematical programming, statistical analysis, and economic analysis.

446. Managerial Economics (3) F, S

Prerequisite: Economics 200, 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.

449. Business Policies (3) F, S

Prerequisites: Accounting 200, Finance 332, Management 341, and Marketing 351, and senior standing. The course is generally limited to seniors and graduate students. An integrative course examining various problems in the several fields of management. Through analysis of cases and problems and decision simulation, 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.

498. Independent Study (3) F, S

Prerequisites: Management concentration, senior standing, and an overall 3.25 grade average. Open to qualified undergraduate students desiring to pursue directed independent inquiry.

544. Organizational Behavior, Theory, and Administration (3) S

Prerequisite: Management 341. The analysis of human behavior in organization including studies in classical theories of management, status, motivation, conflict, and administrative action.

MARKETING**307. Distribution Costs (3) S**

Prerequisites: Marketing 351; Accounting 200. The development of quantitative measures for marketing activity. The costs of distributing through different channels of distribution, advertising versus personal selling, and movement activities. The 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.

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 (3) S

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.

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.

498. Independent Study (3) F, S

Prerequisites: Marketing concentration, senior standing, and an overall 3.25 grade average. Open to qualified undergraduate students desiring to pursue directed independent inquiry.

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 contractual agreements with government agencies.

QUANTITATIVE METHODS**361. Business and Economic Statistics (3) F, S**

Prerequisite: Mathematics 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.

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) S

Prerequisites: Math. 120, Quant. Meth. 361, and Math. 150A. The construction and application of mathematical models to business decisions and economic analysis.

463. Statistical Decision Theory (3) S

Prerequisite: Quant. Meth. 361. The application of advanced statistical techniques to the problems of management decision-making under conditions of uncertainty.

560. Operations Research (3) S

Prerequisite: 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 models and model building with applications to selected problems in areas such as transportation, warehousing, inventory control, and marketing.

BUSINESS ADMINISTRATION—ECONOMICS**598. Project (3) F, S**

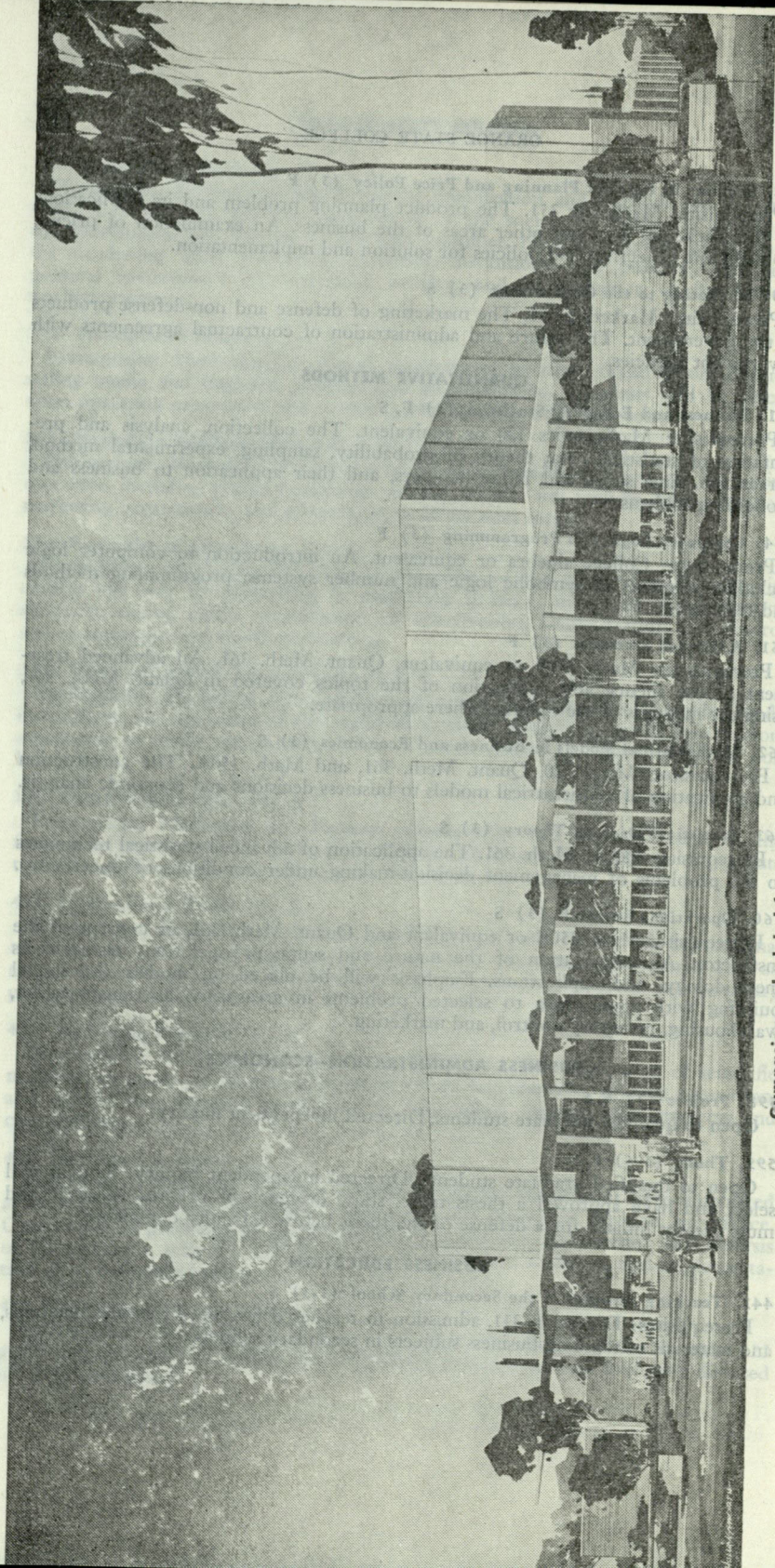
Open to qualified graduate students. Directed independent inquiry.

599. 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**442. Teaching Business in the Secondary School (2-3) S**

Prerequisites: Education 311, admission to teacher education. Principles, methods, and materials of teaching business subjects in secondary schools.



Gymnasium, scheduled for occupancy in the Fall semester of 1965

DIVISION OF EDUCATION AND PSYCHOLOGY

Professors: Doane (Chairman), Allen, Bridgman, Carr, Denno,* Ehmann,* Hartsig, Imhoff, McComb,* Schmidt.

Associate Professors: Croy, Hill, Lynn,* Omalev, Pastor, Tollefson.*

Assistant Professors: Burke,* Calhoun, Carlson, Cusick, Donoghue, Golden, Holmes, James, Jones, Kravitz, McGarry

Instructor: Bristow*

(1962-1963 Faculty)

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

1. Pre-service teacher education
2. In-service teacher education
3. Professional preparation of administrative and counseling personnel for the public schools
4. Major in psychology
5. The portion of the general education requirements in psychology, 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 teachers and other professional workers in educational institutions. In addition to using published source materials and attending class sessions for presentations and discussions, many of the Division's courses require field work in schools and other educational agencies.

The pre-service teacher education programs of the college comprise a balance among studies which provide intellectual breadth, studies which provide intellectual depth, and studies which provide the professional preparation for a career as a teacher. The student who completes a teacher education curriculum is a liberally educated person who is prepared to begin a career as a teacher and who possesses capacity for self direction in the learning process. The professional education of the teacher spans the years of pre-service preparation and the years of professional service throughout his career; the pre-service segment emphasizes those elements related to the initial years of the career and lays a foundation for continued professional development. Only those students who demonstrate suitable personal, intellectual, and social qualities are admitted and retained in the teacher education curricula.

The in-service teacher education programs of the college are designed to serve immediate and long-range needs of teachers and school systems. A variety of courses is offered to assist teachers to do their jobs better and to find solutions to problems that confront them in their professional work. The resources of the Division are available to school systems for the purpose of making improvements in instructional programs, school administration, pupil personnel practices, and in conducting studies and surveys related to these needs.

The College offers a program for the preparation of school supervisors and administrators based on the assumption that instructional excellence is the primary goal of educational leadership. Emphasis is placed on the art of school and community understanding, an appreciation of the cultural stream of which schools are a part and to which they must contribute, a sense of statesmanship in educational matters and a background of technical competence to make them possible.

* College Administrative Officers.

The program for the preparation of school counselors, psychometrists, and child welfare workers is committed to the principle that the effectiveness of the school is determined by the extent to which each individual child or youth reaches his highest intellectual and personal potential. The program is devised to select pupil personnel workers carefully and to provide the technical competence necessary to assist school pupils in making the decisions they must make as they grow up.

The offerings in health, physical education, and recreation are limited to service functions at this time, but the College expects to offer courses to support a major in one or more of these disciplines in two or three years. Presently, most of the courses are directed toward the general education requirements or the pre-service preparation of elementary school teachers.

The major in psychology is designed for students who (1) desire to prepare for graduate work in psychology, (2) wish to enter fields related to psychology and not requiring graduate work, (3) *are pursuing credentials* for which a psychology major would be appropriate, (4) desire to extend their liberal education with a concentration in psychology, and (5) plan to enter one of the several professional areas in which a substantial preparation in psychology is essential.

NEW CREDENTIAL REGULATIONS

The Certificated Personnel Law of 1961 provided for the modification of the minimum requirements for teaching in elementary schools, secondary schools, and junior colleges and for serving in other professional capacities such as counselor, supervisor, or administrator. At the time that this catalog copy was prepared, the State Board of Education had not announced the new regulations. The College will publicize its programs related to the new credential regulations as soon as possible. The new regulations will become operative on July 1, 1963.

CURRICULA IN PRE-SERVICE TEACHER EDUCATION

Orange State College offers two pre-service elementary school teacher education curricula and one pre-service secondary school teacher education curriculum. Each curriculum provides for completing all requirements for graduation with the Bachelor of Arts degree at the end of the usual four collegiate years for the student who satisfies the requirements. Each curriculum provides for the completion of all requirements for the proper California State Teaching Credential; the two curricula in elementary school teacher education lead to the General Elementary Credential, and the secondary school teacher education program leads to the General Secondary Credential. All curricula provide for completing a minimum liberal arts major, or more, in an academic field of study offered by the College. The following curricula assume a pre-education objective in the lower division or junior college.

The four-year curriculum in elementary school teacher education is a minimal program in general education, academic specialization, and professional education.

The five-year curriculum in elementary school teacher education is an enriched program for the student who wants the opportunity to equip himself for the complex responsibilities of an educated individual, citizen, cultural leader, and professional worker.

The rapid expansion of human knowledge and the complicated culture in which we live have created circumstances for which teachers should have five years of pre-service preparation. The five-year curriculum in elementary school teacher education provides for the breadth of preparation and the intensity of study in one or more academic disciplines that will make for enlightened professional service so necessary for the crucial times in which we live. The student who completes the five-year program is likely to be eligible for a better professional opportunity and a better initial salary than the student who completes the minimal four-year program.

The five-year curriculum in secondary school teacher education is correlated with the requirements for the General Secondary Credential. The program includes breadth and depth of preparation in liberal arts studies. Thirty units of work are required beyond the Bachelor of Arts degree.

Further details on these curricula are available from the Division of Education and Psychology. The student will need these materials before completing his plans.

FOUR-YEAR CURRICULUM IN ELEMENTARY SCHOOL TEACHER EDUCATION *

Lower Division	Units
Required Courses	31
Natural Science	9
Social Science	9
Humanities	6
Communication	3
Health and Physical Education	2
Psychology	2
Elective Courses	23-33
Courses in behavioral science, fine arts, humanities, natural science or social science to diversify the intellectual background toward fulfillment of the goals of liberal education.	
Total Lower Division Units	54-64

Academic Major

Each student will complete a Bachelor of Arts degree with a major planned and approved by his major adviser and his professional adviser. Majors presently available are: art, biological sciences, business administration, chemistry, economics, English, French, geography, German, history, humanities, language arts, mathematics, music, physics, political science, psychology, social sciences, sociology, Spanish, and speech. The composition of these majors is described in other sections of the catalog and is also described in "Regulations and Program Components of the Elementary School Teacher Education Program" available from the College.

Allied Studies

Each student will consult with his professional adviser to plan for the completion of a suitable distribution of studies in courses other than those of his major or professional education.

Professional Education

Semester I	Units
Block in Psychological Foundations of Education	Educ. 311 6
This course is for the regular student who expects to complete the Upper Division requirements in two years.	
With the approval of the professional adviser, students who have completed the major portion of this block may satisfy the remaining requirements by taking the appropriate courses from the following:	
Human Growth and Development	Educ. 312 3
Educational Psychology	Psych. 311 3
Principles of Guidance	Educ. 351 2

* Only those students who have been admitted to the teacher education program at Orange State College prior to July 1, 1963, may qualify under this program.

* However, a minimum of 32 units of Education courses must be presented by any applicant for the General Elementary Credential.
† Includes Lower Division, Upper Division, and Postgraduate work.

Semester II		Units
Separate Courses in Methods and Materials of Teaching in the Special Fields		6
Teaching Art in the Elementary School	Art Ed. 432	2
Teaching Music in the Elementary School	Mus. Ed. 432	2
Teaching Physical Education in the Elementary School	P.E. 432	2

Semester III		Units
Block in Elementary School Principles, Curricula, and Methods	Educ. 331	8

This course is for the regular student who expects to complete the Upper Division requirement in two years. The course should be taken in the semester preceding student teaching.

With the approval of the professional adviser, students who have completed the major portion of this block or who are part-time students may satisfy the requirement of this block by taking the following courses:

Principles and Curricula of Elementary Education	Educ. 431	2
Teaching Reading in the Elementary School	Educ. 432R	2
Teaching Language Arts in the Elementary School	Eng. Ed. 432	2
Teaching Mathematics in the Elementary School	Math. Ed. 432	2
Teaching Science in the Elementary School	Sci. Ed. 432	2
Teaching Social Science in the Elementary School	S.S. Ed. 432	2
Audio-Visual Methods	Educ. 491	2

Semester IV

Student Teaching in the Elementary Schools and Student Teaching Seminar	Educ. 339	10
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This course is taken in the last semester of work toward the degree or the credential.

The Student Teaching requirement may be satisfied by a student who has had two or more years of successful, regular teaching experience; details for this waiver are described in this catalog.*

Total Upper Division	60-70
Total Units Required for the Bachelor of Arts Degree	124

FIVE-YEAR CURRICULUM IN ELEMENTARY SCHOOL TEACHER EDUCATION

COMPOSITE OF LOWER DIVISION, UPPER DIVISION AND POSTGRADUATE WORK

I. Courses for Distribution in Liberal Arts (Minimum)	60†
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At least 12 units of the following must be taken from the Upper Division. The remainder may be presented from Lower Division work. The number shown below are minimal in each category of distribution.

	Units		Units
English	6	Mathematics or Economics	3
History and Political Science	6	Fine and Applied Arts	6
Health and Phys. Educ.	2	Humanities	6
Psychology	3	Natural Sciences	9
Speech	3	Social Sciences	6

The balance of courses for the purposes of satisfying the distribution requirement must be taken in the above fields and exclude the major, minor, or professional education.

* However, a minimum of 24 units of Education courses must be presented by any applicant for the General Elementary Credential.

† Includes Lower Division, Upper Division, and Postgraduate work.

II. Courses for the Major

Units

Each student will complete a major planned with and approved by his major adviser and his professional adviser. Majors presently available are: art, biological sciences, English, French, geography, German, history, humanities, language arts, mathematics, music, political science, social sciences, Spanish, and speech. The composition of these majors is described in this catalog by the division or department offering the major.

III. Courses for the Minor

Each student will complete a minor planned with and approved by his major adviser and his professional adviser. Minors presently available are: art, biological sciences, English, French, German, geography, history, humanities, language arts, mathematics, music, political science, social sciences, Spanish, and speech.

IV. Courses for the Pre-Service Professional Education of the Elementary School Teacher. (Minimum)

32

The details of this segment of the teacher education program will be described in a publication available from the Division of Education and Psychology.

V. Elective Courses

Minimum units required to complete the curriculum leading to the General Elementary Credential

154*

The Bachelor of Arts degree may be conferred at the end of four years if requirements shown in the OSC catalog for 1963-1964 are completed. The student is expected to fulfill all institutional and statutory requirements bearing upon the elementary school teacher education program and the General Elementary Credential.

CURRENT CURRICULUM IN SECONDARY SCHOOL TEACHER EDUCATION

COMPOSITE LOWER DIVISION, UPPER DIVISION AND GRADUATE WORK

Units

Courses for Distribution in Liberal Arts

50†

See page 92 for description of requirements.

Courses for the Liberal Arts Major

36†

A maximum of 12 units of Lower Division work may be counted toward the major. The major must include a minimum of 6 units of postgraduate work.

Each student will complete a major planned with and approved by his major adviser and his professional adviser. Majors presently available are: art, biological sciences, business administration, chemistry, economics, English, French, geography, German, history, humanities, mathematics, music, philosophy, physics, political science, psychology, social sciences, sociology, Spanish, and speech and drama; other majors are being developed and will be available to students.

Courses for the Liberal Arts Minor

20†

A maximum of 12 units of Lower Division work may be counted toward the minor.

Each student will complete a minor planned with and approved by his major adviser and his professional adviser. Minors include: biological science, English, French, German, journalism, language arts, mathematics, music, social science, Spanish and speech; other minors are being developed and will be available to students.

* Includes Lower Division, Upper Division, and Postgraduate work.

† To be interpreted as a minimum of 50 units, minimum of 36 units, etc.

<i>Courses for the Pre-Service Professional Education</i>	<i>Units</i> 24†
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Regular Pre-Service Professional Education Program (for the student who has completed junior college, only).

The requirements of 36 units in the major and 20 units in the minor are state credential minima. College requirements are sometimes higher. See descriptions of specific major requirements in the various division listings. Not all of the majors listed by the College are accepted by the state as credential majors. Consult with your adviser to make sure the major you choose will meet credential requirements.

<i>Elective Courses</i>	24
Minimum units required to complete the curriculum leading to the General Secondary Credential	154

The Bachelor of Arts degree may be conferred at the end of four years if requirements shown in the OSC catalog are completed.

N.B. The applicant for the General Secondary Credential must complete 30 units after the completion of the requirements for the Bachelor of Arts degree. The 30 semester units must include at least 6 units of pre-service professional education courses and 6 units in subject fields commonly taught in junior and senior high schools. The student is responsible for arranging his schedule to satisfy these graduation and credential requirements.

THREE-YEAR PROGRAM IN PROFESSIONAL EDUCATION

(For the student who has completed lower division at OSC or at a junior college)*

<i>Semester I</i>		<i>First Year</i>		<i>Semester II</i>		<i>Units</i>	
Educ. 340A Practicum in Secondary Education	1			Educ. 340B Practicum in Secondary Education	1		
		<i>Second Year</i>					
Educ. 311 Psychological Foundations of Education	6			Educ. 441 Principles and Curricula of Secondary Education	2		
				442. Teaching (the major) in the Secondary School	3		
		<i>Third Year</i>					
Educ. 549 Student Teaching in the Secondary School and Student Teaching Seminar	8			Educ. 501 Philosophy of Education	3		

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.

† To be interpreted as a minimum of 50 units, minimum of 36 units, etc.

* Students who have completed three years of college or who come to Orange State College with degrees should consult advisers in the Division of Education and Psychology regarding courses and course programs in professional education.

Students with a bachelor's degree and teaching experience who wish to meet specific requirements for the General Elementary Credential may do so through the following courses at Orange State College:

*Orange State College Courses
Which Meet These
Requirements*

California State Requirements

1. Principles and Curricula of Elementary Education Education 331, 431
2. Elementary methods in basic subjects..... Education 331, Art Ed. 432,
For. Lang. Ed. 432, Educ.
432R, Eng., Speech Ed. 432,
Math. Ed. 432, Mus. Ed.
432, P.E. 432, Sci. Ed. 432,
Soc. Sci. Ed. 432
3. Child Growth and Development..... Education 311, 312
4. Audio-Visual Education Education 331, 491

**STATUTORY REQUIREMENTS FOR CREDENTIALS IN
ADMINISTRATION AND SUPERVISION**

Students must take Education 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 OSC 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 and Psychology.

**STATUTORY REQUIREMENTS FOR CREDENTIALS IN
PUPIL PERSONNEL SERVICES**

Students must take Education 351, Principles of Guidance or Education 452, Counseling Theories and Processes, during their first registration in this field. To take courses beyond these courses, the student must be granted a "Letter of Admission to the Program" and possess an official OSC program evaluation. Details of this program are contained in a brochure available from the Division of Education and Psychology.

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, a student should consult an adviser in the division in which he expects to major and an adviser in the Division of Education and Psychology who will help the student 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 and Psychology. Transferred courses must be of upper division level and taken within the past fifteen years to be applicable to upper division credential requirements.*

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

ADMISSION TO TEACHER EDUCATION

Admission to Orange State College does not constitute admission to the 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 and Psychology. This application should be filed during the first semester that the student takes courses at the college.

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 are 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.

Admission to teacher education is required of all students prior to seeking admission to student teaching.

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 the applicant 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 skills, composition, handwriting, and personality are given by the Testing Office for admission to teacher education; consult the Testing Office for dates. Information regarding the speech and hearing examinations is available in the office of the Chairman, Department of Speech.

The Student who comes to OSC to work toward a General Secondary Credential 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:

1. 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 and Psychology.

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 student teaching must be within 15 units of the baccalaureate degree. Applicants for admission to secondary student teaching must be classified as post-graduate students. All applicants must have completed at least twelve units at Orange State College. 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. Elementary candidates must complete *Art 100* and *Music 232*, or their equivalents, prior to taking the methods courses in art and music. Some music skill is required of all elementary candidates. Secondary school teacher education students must meet the requirements for their 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.

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 and Psychology.

STUDENT TEACHING

Each candidate for the General Elementary Credential will do his student teaching in the last semester he is in the teacher education curriculum or in his post graduate year at Orange State College. Each candidate for the General Secondary Credential will do his student teaching during the postgraduate year. Student teaching assignments are made in the elementary and secondary schools of districts geographically accessible to 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

The college offers two courses in student teaching: Education 339, Student Teaching in the Elementary School and Student Teaching Seminar, 10 units; and Education 549, Student Teaching in the Secondary School and Student Teaching Seminar, 8 units.

Students enrolled in either of these courses have heavy responsibilities for planning, preparation of instructional materials, developing appropriate resource materials, evaluating pupil performances, participating in conferences with supervising teachers and college supervisors, and the many other details that must be executed with efficiency to make the teaching-learning process of maximum value to pupils and to the student teacher. We know that teaching requires extra energy, both mental and physical, beyond that necessary for the completion of tasks associated with the college-student role.

Students who enroll in Education 339, Student Teaching in the Elementary School and Student Teaching Seminar, 10 units, will be limited to one course in addition for that semester. Students who enroll in Education 549, Student Teaching in the Secondary School and Student Teaching Seminar, 8 units, will be limited to two courses in addition 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 the above limitations, he may submit a petition to the Coordinator of Elementary Education or the Coordinator of Secondary Education requesting permission to carry not more than 15 units, including Education 339 or Education 549. The petition must set forth the reasons for the petition and a full description of the important factors related to the student's load during the semester, especially his employment or other conditions that may interfere with his success in Education 339 or Education 549. The petition will be granted if the reviewing committee considers the load to be reasonable and the supporting rationale to be sound.

PERMISSION TO SUBSTITUTE TEACHING EXPERIENCE FOR STUDENT TEACHING

A candidate for a teaching credential who has had teaching experience must petition the Division of Education and Psychology, through his professional adviser, to substitute two full years of successful, regular teaching experience at the level at which the credential is expected. If the petition is granted, the candidate for the General Elementary Credential must present not less than 24 units in professional education, and the candidate for the General Secondary Credential must present not less than 22 units in professional education. The substitution will be considered only if the applicant:

1. Has been admitted to teacher education at the college.
 2. Has been admitted to student teaching at the college.
 3. Has submitted an official verification from his former supervisor, principal, or superintendent to the Division of Education and Psychology 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 and Psychology.

PROVISIONAL CREDENTIAL RENEWAL

Orange State 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 he following conditions have been fulfilled.

1. The applicant has been admitted to teacher education at the college.
2. 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 and Psychology.

PUBLICATIONS AVAILABLE FROM THE DIVISION OF EDUCATION AND PSYCHOLOGY

1. Admission to teacher education
 - 1.1 Instructions
 - 1.2 Application
 - 1.3 Standards for admission
2. Admission to student teaching
 - 2.1 Instructions
 - 2.2 Application
 - 2.3 Standards for admission
3. Elementary school teacher education
 - 3.1 Current program
 - 3.2 Five-Year Program
 - 3.3 Programs for holders of baccalaureate degrees
 - 3.31 Full residence at the college
 - 3.32 Partial residence at the college
4. Secondary school teacher education
 - 4.1 Guide to the secondary school teacher education program
5. School administration and supervision
 - 5.1 Program in school administration and supervision
6. Pupil personnel services
 - 6.1 General pupil personnel services credential program
7. 1963 Credential Program Revisions
 - 7.1 Guide to the new credential requirements

EDUCATION AND PSYCHOLOGY COURSES

FOUNDATIONS OF EDUCATION

311. Psychological Foundations of Education (6) F, S

Prerequisite: Psych. 201. Prerequisite to other courses in the professional education sequence. Satisfies the statutory requirement for educational psychology. Covering (1) learning theory, and thinking processes, (2) human growth and development, guidance and counseling of pupils as practiced by the teacher in the promotion of effective intellectual and emotional growth and including the psychological services provided by the school districts. Requires laboratory assignment, individual case study, and some consideration of tests, measurement and evaluation.

312. Human Growth and Development (3) F, S

Prerequisite: Psych. 201. 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) S

Prerequisite: Educ. 331 or Educ. 441 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. 331 or Educ. 441, 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. 331 or Educ. 341, or consent of the instructor. The school in the social order; analysis of cultural factors affecting school, and of the special culture of the school; consideration of research in selected areas of the school-culture relationship.

501. Philosophy of Education (3) F, S

Prerequisites: Postgraduate standing and Educ. 339 or Educ. 549, 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.

504. Foundations for Policy and Program Development (2) F, S

Prerequisites: Undergraduate or graduate courses in guidance; child growth and development or child psychology; tests and measurements; Educ. 503, 561, 562, 564 and 565. Administrative and supervisory policy as related to the learner, the learning process and the appraisal of pupil aptitudes; adjustments for individual differences; research related to these fields. Meets credential requirement in administration of special schools and pupil personnel.

505. Foundations for Improving Instruction (4) F

Prerequisite: Educ. 504. 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

Prerequisites: Educ. 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.

ELEMENTARY EDUCATION**331. Elementary School Principles, Curricula, and Methods (8) F, S**

Prerequisites: Educ. 311, Art Ed. 432, Mus. Ed. 432, P.E. 432, 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 General Elementary Credential or its equivalent. (6 hours lecture, 2 hours activity, and 3 hours laboratory per week.)

the provisional credential will be issued for the student only if the following conditions have been fulfilled.

339. Student Teaching in the Elementary School and Student Teaching

Seminar (10) F, S

Prerequisites: Educ. 331 and admission to student teaching. Student teaching for the General Elementary Credential. 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. 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. 311 or consent of the instructor. A series of courses, listed dually in the Division of Education and Psychology and in the other appropriate divisions, dealing with objectives, methods, and materials of teaching the various subjects and areas in 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.

Art Ed. 432. Teaching Art in the Elementary School (2) F, S

For. Lang. Ed. 432. Teaching Foreign Languages in the Elementary Schools (2) F, S

Mus. Ed. 432. Teaching Music in the Elementary School (2) F, S

P.E. 432. Teaching Physical Education in the Elementary School (2) F, S

The following courses have been designed specifically for students who have completed the major portion of Education 331 or who are part-time students. With the approval of the professional adviser the requirement of Education 331 may be satisfied with these courses.

Educ. 432R. Teaching Reading in the Elementary School (2) F, S

Eng. Ed., Sp. 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

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. 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.

537. Seminar for Elementary Education (3) F, S

Prerequisite: Educ. 339 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.

SECONDARY EDUCATION**340A,B. Practicum in Secondary Education (1-1) F, S**

Required first course in the professional sequence for the General Secondary Credential for those who begin their work toward the credential as juniors. Two hours observation per week in selected high school and junior high school classes and one hour per week in campus discussion groups. Includes application for admission to teacher education.

441. Principles and Curricula of Secondary Education (2) F, S

Prerequisites: Educ. 311, admission to teacher education or consent of the instructor. Principles and philosophy of secondary education in the United States: organization, curriculum, evaluation, and teaching practices including audio-visual methods and materials. Correlated with methods and materials courses in the majors. Required of all candidates for the General Secondary Credential.

442. Teaching—in the Secondary School

A series of courses, listed dually in the Division of Education and Psychology 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. 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. Prerequisites: 20 units in the major, Education 311, Education 340, 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) S

Eng. 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) (Planned for 1964-65)

Math. Ed. 442. Teaching Mathematics in the Secondary School (2-3) S

Mus. Ed. 442. Teaching Music in the Secondary School (2-3) F, S

P.E. 442. Teaching Physical Education in the Secondary School (Planned for 1964-65)

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, S

443. Principles of Core Curriculum (2) S (Not offered in 1963-1964)

Prerequisites: Teaching experience or consent of the instructor. Unity and inter-relationships 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.

547. Seminar for Secondary Education (3) F

Prerequisite: Educ. 459 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.

549. Student Teaching in the Secondary School and Student Teaching

Seminar (8) F, S

Prerequisites: Educ. 441 and 442, admission to student teaching. Student teaching for the General Secondary Credential. Participation in a regular secondary school teaching program for half days for a full semester or full days for a half semester. Includes a two-hour seminar each week in problems and procedures of secondary school teaching.

SCHOOL SERVICES**351. Principles of Guidance (2) F, S**

Prerequisite: Psych. 311 or Educ. 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; counseling service.

451. Principles of Educational Measurement (2) F, S

Prerequisite: Educ. 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. 441 or Educ. 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 (Formerly 472)

Prerequisites: Educ. 311 and Educ. 331, or Educ. 431, or Educ. 441. 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 (Formerly 471)

Prerequisites: Educ. 311 and Educ. 331, or Educ. 431, or Educ. 441. 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. 311, Educ. 441, 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.

551. Educational and Career Orientation (3) F

Prerequisite: Educ. 351 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

Prerequisite: Educ. 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. 452, Educ. 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 (3) S

Prerequisite: Educ. 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) S

Prerequisites: Educ. 451 and Educ. 452. Intensive study of the techniques of individual diagnosis including the synthesis and interpretation of information. Case study and case conference approach to diagnosis.

559AB. Field Work in Counseling (3,3) F, S

Prerequisite: 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.

560. Practicum in School Administration (2) S

Prerequisite: Educ. 503. Observation and limited participation in variety of administrative situations. Background for studies and selecting areas of specialization. Class meetings and added Saturday morning session. Does not meet "directed field work" requirement of credentials.

561. The Government of Schools in the U.S. (2) F

Prerequisite: Educ. 503. Meets credential requirements in Federal, state and county school administration. Structure, functions, trends and issues at each level. Emphasis on intergovernmental relations and impact at local level.

562. Administration of Local School Systems (2) S

Prerequisite: Educ. 503. Meets credential requirement in city school administration. School districts and their reorganization; school boards, the superintendency; principles of internal organization of central staff and functions; basic principles of personnel administration.

564. School Law (2) F

Prerequisite: Educ. 561, 562. Meets credential requirement. School law as a reflection of public policy; the California State Code; Title 5; the roles of courts, county counsel and Attorney General in interpreting law; how law is made. Gives minimal preparation for positions as superintendents or business officials. Does *not* meet "laws relating to children" requirement for Pupil Personnel Credential.

565. School Finance, Business Administration and Buildings (3) S

Prerequisite: Educ. 564. Meets credential requirements. Emphasis on these as they implement an effective educational program. Gives minimal preparation for positions as superintendents or business officials.

566e. Organization and Administration of Elementary Schools (3) F, S

Prerequisites: Educ. 503, 504, 505, 511, 561, 562, 564, and 565. May be taken concurrently with Educ. 569E. Leadership role of elementary school principal, pupil personnel and instructional program in the 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.

566s. Organization and Administration of Secondary Schools (3) F

Prerequisites: Educ. 503, 504, 505, 511, 561, 562, 564, and 565. May be taken concurrently with Educ. 569S. Leadership role of secondary school principal, 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.

569e. Directed Field Work in Elementary School Administration and Supervision (2) F, S

Prerequisites: Educ. 566E or concurrent registration. Work in selected elementary schools and district offices. Further details in special publications. Meets credential requirement.

569s. Directed Field Work in Secondary School Administration and Supervision (2) F

Prerequisites: Educ. 566S or concurrent registration. Work in selected secondary schools and district offices. Further details in special publication. Meets credential requirement.

HEALTH EDUCATION, PHYSICAL EDUCATION, AND RECREATION**HEALTH EDUCATION****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.

PHYSICAL EDUCATION

Physical education activities courses are designed to offer the student opportunities to develop optimal skills, knowledge, and confidence in terms of mental, social, and physical fitness for educational, recreational, and utilitarian purposes in our democratic society.

All students must successfully complete four semesters of physical education activity courses, starting with the first semester of attendance (summer session excluded) as partial fulfillment of the general education requirements for the baccalaureate degree. Each course carries $\frac{1}{2}$ unit credit. A series of health education lectures is included with the first physical education activity course taken. (The student may elect HE 101 in lieu of the health lectures.)

Students carrying fewer than 12 units during any semester may postpone taking physical education but are not exempt from this requirement. The program is organized and conducted on a planned basis to enable each student to receive instruction in the following areas:

● FOR MEN

AQUATIC ACTIVITIES: (PE 110 Series)	GROUP AND TEAM ACTIVITIES: (PE 120 Series)	INDIVIDUAL ACTIVITIES: (PE 130 Series)	DANCE ACTIVITIES: (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 Individual Physical Condition- ing F, S 134 m Adapted Physical Education F, S 135 m Track and Field F, S	

● FOR WOMEN

AQUATIC ACTIVITIES: (PE 110 Series)	GROUP AND TEAM ACTIVITIES: (PE 120 Series)	INDIVIDUAL ACTIVITIES: (PE 130 Series)	DANCE ACTIVITIES: (PE 140 Series)
111 w Swimming F, S	121 w Group Games F 122 w Group Games S	131 w Gymnastics, Tumbling, and Rebound Tumbling F, S 133 w Individual Physical Conditioning and Self- Defense F, S 134 w Adapted Physical Education F, S	

● CO-EDUCATIONAL

113 Life-Saving and Water Safety F, S	123 Group Games (Open only to prospective elementary school teachers.) F, S	136 Archery F, S 137 Golf F, S 138 Tennis F, S	141 Social Dance F, S 142 Folk and Square Dance F, S 143 Modern Dance S
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INTERCOLLEGIATE ATHLETICS

Consent of the coach of the sport is required for enrollment. Each semester of participation carries 1 unit of credit. Participation on an athletic team or teams may be used to meet one semester of the general education requirement. The student must enroll concurrently in a physical education activities class until squad membership is verified by the coach. The physical education activity course may then be dropped if the student desires.

318. Basketball (1) F, S

319. Cross Country (1) F

432. Teaching Physical Education in the Elementary School (2) F, S

Prerequisite: Educ. 311. Physical education rationale, techniques, and materials for elementary school teachers. Methods of teaching games, sports, rhythms and dances commonly taught in elementary schools. Observation and laboratory practice included. (4 hours activity per week.)

442. Teaching Physical Education in the Secondary School (2-3)

Planned for 1964-65)

Prerequisites: 20 units in physical education, Educ. 311, Educ. 340, senior standing, or consent of the instructor. Objectives, methods, and materials for teaching physical education in secondary school. Required before student teaching, of students presenting majors in physical education 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. (1 hour lecture, 2 hours activity.)

Recreation

443. Theory of Recreation (2) F

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.)

444. Recreation Programs and Activities (2) S

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.)

PSYCHOLOGY

Requirements for the Major

Lower division: In order to take upper division courses in psychology, at least six units of psychology must be offered from the student's lower division work.

Upper division: A minimum of 27 units of upper division work will constitute a major in psychology. Fifteen units are prescribed below:

	Units
Psych. 301 Experimental Psychology	3
Psych. 408 History of Psychology	3
Psych. 461 Group Psychological Testing	3

Psych. 351 Social Psychology	Units
or	3
Psych. 431 Theories of Personality	
Psych. 421. Physiological Psychology	
or	3
Psych. 412 Psychology of Learning	

A minimum of 15 units additional including 3 units of elementary statistics and 12 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, literature. Psychology majors planning to do graduate work are urged to take work in foreign languages.

161. Elementary Statistics (3) F, S

Prerequisite: Two years of algebra or equivalent. An introductory course in descriptive statistics.

201. 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.

202. Principles of Psychology (3) S

Prerequisite: Psych. 201. 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.

301. Experimental Psychology (3) F, S

Prerequisites: Psych. 201, Psych. 202. Emphasis on basic concepts of scientific research in psychology, and on training in research practices. Experience in the formulation of hypotheses, collection and interpretation of data, and report-writing.

311. Educational Psychology (3) F, S

Prerequisites: Psych. 201. 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.)

312. Human Growth and Development (3) F, S

See Educ. 312.

341. Abnormal Psychology (3) F, S (Formerly 441)

Prerequisite: Psych. 201 and Psych. 202. 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 (Formerly 442)

Prerequisite: Psych. 201 and Psych. 202 or permission of instructor. 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 ordinarily given for both Psych. 341 and 342.)

351. Social Psychology (3) F (Formerly 451)

Prerequisites: Psych. 201, Psych. 202, and Soc. 301. 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 (Formerly 491)

Prerequisite: Psych. 201 and Psych. 202 or permission of instructor. 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.

400. 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.

407. Seminar in Basic Concepts of Philosophy and Psychology (4) F, S

Prerequisite: 3 units of philosophy and Psych. 201. An interdisciplinary study of significant interrelationships which obtain between basic concepts common to both philosophy and psychology.

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. 311. Variables, processes, influences, factors, conditions, and elements of learning according to the major theoretical systems. Critical evaluation of the theories.

413. Perception (3) S

Prerequisites: Psych. 301 and a course in statistics 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.

421. Physiological Psychology (3) F

Prerequisite: Physiology or permission of instructor. 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.

431. Theories of Personality (3) S

Prerequisite: Three units of upper division psychology. Personality structure, development, and dynamics according to major theories. Research methods as they apply to personality theory.

461. Group Psychological Testing (3) F

Prerequisites: Psych. 161 or equivalent. Intelligence, aptitude, interest, and personality testing. Theory, construction, evaluation, interpretation, and uses of psychological tests.

462. Individual Psychological Testing (3) S

Prerequisite: Psych. 461. Major tests of intelligence. Practice in administration, scoring, and interpretation of these instruments.

471. Exceptional Children (3) F, S (Formerly 472)

See Educ. 471.

472. Gifted Children (2) F (Formerly 471)

See Educ. 472.

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.

**PUBLIC SCHOOL TEACHERS COOPERATING IN
STUDENT TEACHING PROGRAM****SPRING SEMESTER, 1962****Elementary*****Alamitos Elementary School District***

Lauretta Bennett, Carlton Corey, Patricia Graham, Alice Hammond, Carol Ann Kolson, Mrs. Lucia Shifflette, Jean Turnbaugh

Anaheim City School District

Ruth Chambers, J. R. Coburn, Jr., Mrs. Adele Cooke, Elizabeth Elmore, Joan Frank, Marcy McCall, Frances McCleave, Mrs. Velma McCormack, Prudence B. Mitchell, Mrs. Marilyn Warner, Virgene Wessman, Janet C. Young

Brea Elementary School District

Opal Hassing, Mrs. Margery C. Hathcock, Mrs. Reita M. Lutz, AnDeanne Spencer, Mrs. Georgann Watson, Mrs. Marian P. Withey

Buena Park School District

Mrs. Lola Eldridge, Marie Gramlich, Rudolph Johnson, Mrs. Adeline LaPan, Mrs. Mary Parkin, Elizabeth McFarland, Harold Sloat, Albert E. Stuart

Centralia School District

Frances Carey, Mrs. Carol Fox, Mrs. Dorothy Grimes, Mrs. Mary Jane Penderghast, Mrs. Eunice Porter, Mrs. Anna Speck

Costa Mesa Union School District

Preslie Beck, Gay M. Fisher, Marie Hammons, Naomi Hayes, Mabel Koral, Nellie G. Long, Mrs. Richard McAdoo, Jean Marie Sprague, Bernice Turner, Harmon Weston, Leonore F. Wilson

Fullerton School District

Jeanne K. Brown, Mrs. Lucille Cooper, Minard Duncan, Wilma Gibbs, Charles Horton, Marjorie Hunt, Kenneth Mackay, Mrs. Blanche Melgren, Carmen Pelton, Mrs. Myrtle Reno, Dorothy Rhodes, Mrs. Lorna Smith, Eva Steinberg, Sally B. Wilson

Garden Grove Elementary School District

Donald E. Brown, Mrs. Velma L. Fuller, O. L. Hoover, David P. Jenkins, Gayle Knapp, Audrey McGregor, Rachel McVicker, Mignon Waters

LaHabra City School District

Jacqueline Bettick, Harriet Hermann, Wyman L. Hill, Betty Hines, Roger Membrez, Ann Prestridge, Mrs. Mary M. Sheller, Robert M. Townsend

Magnolia School District

Mrs. Sara Borden, Mrs. Thelma Buhlie, Vivian Chichester, Sandra E. Finchum, Ruth Hain, Mrs. Lonnelle Judson, Virginia Krill, Mrs. Betty Larsen, Mrs. Celia Lockiuso, Dorothy S. Long, Linda Moore, Mrs. Charloma A. Schwan-kovsky

Ontario Elementary School District

Dorothy Gunn, Mrs. Cleobelle Heiple, Gladys Henry, Mrs. Marguerite Hossler,
Mrs. Betty Miller, Mrs. Jane Naisbitt, Mrs. Ineta Robinson, Mrs. Judith Troxel

Orange Unified School District

Mrs. Lilyan M. Bois, Margaret G. Cornett, Charles I. Jones, Mrs. Elma Kadau,
Mrs. Marjorie Kauth, Jean Laylin, Mildred Lussier, Mrs. Carol Perry, Ruth A.
Reich, Barbara E. Sears, Mrs. Janel J. Seeley, Mrs. Beverly Shaw, Elva B.
Spencer, Ralph Whitford

Placentia Unified School District

Dorothy Gardiner, Hattie B. Hodkins, Dorothy Hoover, Erma H. Lofing

Santa Ana Unified School District

Theodore Beasley, Jane Capozzoli, Reveillee Dohnalek, Carol Freeman, Joan C.
Hill, Mrs. Margaret Jenkins, Mel Maxwell, Mrs. Elaine Parke, Joan Ranney,
Mrs. Carole Walsh, Darrel Wilson, Natalie Woodson

Savanna School District

JoAnn Clevenger, Jose Martinez, Reita Smith, Corlyss Squier

Whittier City School District

Mrs. Beverly Christiansen, Mrs. Virginia Graham, Mrs. Grace Hanson, Mary Lee
Holton, Ardith Johnson, Mr. Marion Martin, Merle Seymour, William L.
Wilkins

FALL SEMESTER 1962**Elementary****Anaheim City School District**

Donald Bahret, Mrs. James Coburn, Mrs. Janice Kim, Mrs. Velma McCormick,
Mrs. Ivy McKeown, Charles Prentis, Mrs. Silvia Thomas, Mrs. Marilyn Warner

Alamitos Elementary School District

Mrs. Elizabeth Allen, Mrs. Fern Berg, Mrs. Lois Cole, Mrs. Avanelle Howk, Mrs.
Ferol Markwell, Mrs. Margaret Pearson, Mrs. Lucia Shifflette

Brea Elementary School District

Mrs. Helen Boswell, Mrs. Virginia Erb, Mrs. Carol Guelker, Miss Rose Marie
Hutchins, Anthony Lombard, Ken Reed, Mrs. Ione Salzer, Mrs. Marian Withey

Buena Park School District

Mrs. Josephine Burdell, Mrs. Lola Eldridge, Mrs. J. Garner, Norman C. Martin,
Mrs. Virginia McCue, Mrs. Mary Padfield, Mrs. Daisy Preston, Miss Mignon
Price

Fullerton Elementary School District

Mrs. Dorothy Carter, Mrs. Marguerite Green, Mrs. Mae Henderson, Mrs. Grace
Kent, Mrs. Joyce Lang, Mrs. Blanche Melgren, Mrs. Virginia Sellers, Mrs.
Lottie White

Garden Grove Elementary School District

Mrs. Virginia Graetz, Mrs. Gayle Knapp, Mrs. Anneva Riddick, Robert Sampecia,
Mrs. Mignon Waters, Miss Judy Zimba

LaHabra City School District

Mrs. Florence Cunningham, Mrs. Harriet Hermann, Gerald Hund, Eddie Ikard,
Mrs. Lorraine Kliem, Roger Membrez

Magnolia Elementary School District

Mrs. Deanna Carter, Mrs. Evalyn Chambers, Mrs. Myra Hochheim, Mrs. Lonnie Judson, Mrs. Carolyn Krutsinger, Miss Ann Morris

SPRING SEMESTER 1962**Secondary****Anaheim Union High School District**

Anaheim High School

Paul M. Bajema, Buford Smith

Magnolia High School

Howard Hovey, Lester Johnson

Fullerton Joint Union High School and Junior College District

Buena Park High School

Donald Bryant, Frank Form, Jack Holm, H. L. Looney, Mr. Pantages

Fullerton Union High School

Lloyd Alford, Harold Beddows, Melvin Bennett, Elizabeth Brunskill, Norman

Cottom, Mary Davis, William H. Gienapp, Donald Knorr, Roger Guy Logan,

Leona Quigley

Fullerton Junior College

Phillip Borst

La Habra High School

Mrs. Bea King, George Francisco, William Lennertz, Edward Martin, Mrs.

Jean Roy, Lee Thompson

Sunny Hills High School

Miss Gale Aalbu, Mary Louise M. Moore, Mrs. Louise Vinson, Mrs. Margaret Zwick

Fullerton School District

Nicholas Junior High School

Mrs. Helen Dorn, Mrs. Martha Stearns

Wilshire Junior High School

Miss Maude Minnick, Mrs. Sally Warner

Garden Grove School District

Ocia A. Peters Intermediate School

Constance McBade, Doris Morehouse

Garden Grove Union High School District

Bolsa Grande High School

Robert Day

Orange Unified School District

Portola Junior High School

Mrs. Marian Darsie, John Thomas

Placentia Unified School District

Valencia High School

Thomas Avery, Donald Shaffer

Santa Ana Unified and Junior College District

Santa Ana Valley High School

Katherine Berry, Louis Burns, Daniel Hohneker

FALL SEMESTER 1963

Secondary

ANAHEIM UNION HIGH SCHOOL DISTRICT

Anaheim High School

Vernon Jones, Mrs. Carolyn Jo Kent, Richard Lovegren, Fred Myers

Western High School

Robert Clough, Miss Margaret Taylor

FULLERTON UNION HIGH SCHOOL DISTRICT

Fullerton High School

Mrs. Virginia Cables, James N. Hines, Guy Logan, Don Oseid, Joseph Yelle

La Habra High School

Mrs. Mary Jane Flaa

Sunny Hills High School

John Dewey and Mrs. Juana White

GARDEN GROVE SCHOOL DISTRICT

Rancho Alamitos High School

Roscoe Jackman and Elias Ramirez

EXCELSIOR UNION HIGH SCHOOL DISTRICT

La Mirada High School

Mrs. Dorothy Dick, Mrs. Susan Kent, William McMaster

NEWPORT HARBOR UNION HIGH SCHOOL DISTRICT

Costa Mesa High School

Ken Cave, William Clarke, Mrs. Bea Irwin, Donald Miller

SANTA ANA UNIFIED AND JUNIOR COLLEGE DISTRICT

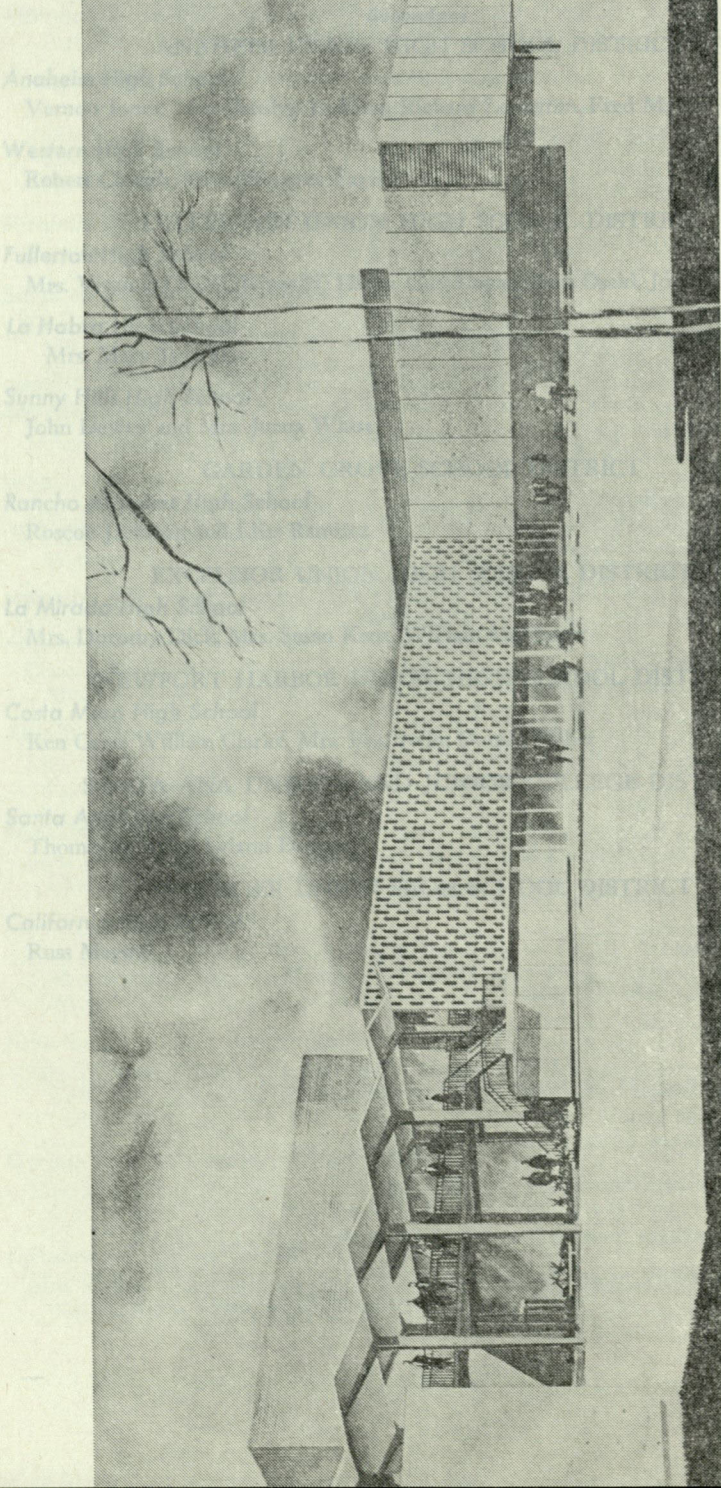
Santa Ana High School

Thomas Baldwin, Leland Doughty

WHITTIER UNION HIGH SCHOOL DISTRICT

California High School

Russ Maggio



Music-Speech-Drama Building, now under construction and scheduled for occupancy in the Spring semester of 1965

DIVISION OF FINE AND APPLIED ARTS

Professors: Olsen (Chairman), Fessenden, Landon

Associate Professors: Breinholt, Dietz, Gray, Hein, Long,* Thorsen, Young

Assistant Professors: Grannell, Michalsky, Nelson, Samuelson, Smith

Lecturers in Applied Music (Part-time): Caudill (string bass), Fengler (violin, viola), Fessenden (oboe), Huntington (organ), Muggeridge (oboe), Norman (voice), Nowlin (bassoon), Phillips (voice), Pyle (French horn), Remsen (trumpet brass), Schoenfeld, A. (violin, viola), Schoenfeld, E. ('cello), Singer ('cello), Wade (flute), Wagner (piano).

(1962-1963 Faculty)

The Division of Fine and Applied Arts includes academic offerings in the Departments of Art, Music, and Speech and Drama. 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 stimulate 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 courses.

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, Language Arts, 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, music and speech.

DEPARTMENT OF ART

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 total 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 critical appreciation and understanding of the range of artistic production of mankind; (2) to express their ideas, thoughts, and feelings in visual forms; and (3) 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;

* College Administrative Officer.

(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.

Plan I provides for an emphasis in the area of art history, theory, and appreciation and is particularly recommended for those students who wish to pursue graduate 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 92). 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 and Psychology). Graduate students who plan to meet the requirement for a general secondary credential 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.

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, 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 24 units

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)

Lower Division: Basic course in art history and appreciation, drawing and painting, design, and crafts 12 units

Upper Division: Art history and appreciation (6 units); drawing and 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 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.

ART DEPARTMENT COURSES

ART HISTORY, THEORY AND APPRECIATION

101. Introduction to Art (3) F

A course for the general student designed to develop an understanding of historical 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.

111. Fundamentals of Art (3) S

A comparative study of the elements of plastic organization in relation to personal and cultural aesthetic expression and concepts. Fundamental art ideas, problems of organization and structure, and terminology. Field trips required.

201A,B. Art and Civilization (3,3) F, S (Planned for 1964-65)

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.

302. Western Art: Classic to Renaissance (3) F (Formerly Art 403)

Provides broad familiarity with the major styles of classic, medieval, and Russian art. Lectures, discussions and field trips.

310. Western Art: Renaissance and Baroque (3) S (Formerly Art 404)

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) F (Formerly Art 311)

Art of the Nineteenth Century and its development into contemporary times.

401. Contemporary Art (3) F (Formerly Art 321)

Fundamentals of modern painting, graphics, and photography.

402. Contemporary Art (3) S (Formerly Art 322)

Fundamentals of modern architecture, interior design, sculpture, and industrial design. Lectures, discussions, and field trips.

411. Primitive Art (3) S (Formerly Art 381) (Planned for 1964-65 and alternate years)

A study of the art of primitive groups and cultures.

421. Oriental Art (3) S

The major styles of Oriental art including ancient cultures and recent trends in Japan, China, India, and Islam. Lectures, discussions, and field trips. Also recommended for humanities and history students.

481. Special Studies in Art History and Appreciation (1-3) S

Prerequisite: permission of the instructor. Opportunities for intensive study and evaluation in one area of art history and appreciation.

STUDIO COURSES**100. Exploratory Course in Art (3) F, S (Formerly Art 300)**

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.

103. Two-Dimensional Design (3) F (Formerly Art 371A)

The inventive use of materials, tools, and elements of plastic organization as related to a two-dimensional surface.

104. Three-Dimensional Design (3) S (Formerly Art 371B)

The inventive use of materials, tools, and elements of plastic organization as related 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.

107A,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.

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.

205A,B. Beginning Crafts (3,3) F, S (Planned for 1964-65)

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.

305A,B. Crafts (3,3) F, S

Prerequisite: Art 103 and 104, or 205A, or 100 and 432 or the equivalent. Craft processes, techniques, and concepts as related to the design and making of utilitarian objects with emphasis on the use of hand tools.

306A,B. Advanced Ceramics (3,3) F, S

Prerequisite: Art 106A or 106B. Further experiences in the creative use of ceramic materials including design, forming, glazing and firing.

307A,B. Drawing and Painting (3,3) F, S

Prerequisites: One semester of drawing and 1 semester of painting. Creative use of 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.

313A,B. Interior Design (3,3) S (Formerly Art 412)

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) S

Prerequisites: Art 103 and 104. A study of basic sculptural processes using a variety of materials and processes.

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

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) (Planned for 1964-65)

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.

347A,B. Printmaking. (3,3) S

Prerequisites: Art 107A,B and Art 117A,B,C,D. An introduction to the graphic medium. Instruction in the techniques of 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) (Planned for 1964-65)

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.

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.

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)
- 483b. Interior Design (S)
- 483c. Design and Composition (F, S)
- 483d. Display Design (F, S)
- 483e. Textile Design (Planned for 1964-65)

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 (Planned for 1964-65)

486. Special Studies in Sculpture (1-3) S

Prerequisite: Art 316 A, 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 (S)

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) 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)
- 507d. Printmaking (S)

ART EDUCATION**332. Industrial Arts for Elementary Teachers (2) F**

Prerequisite: Ed. 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

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 Children (2,2)

(Planned for 1964-65)

Methods of using a variety of art materials and processes with emphasis on those experiences which meet the needs of retarded or handicapped children.

432. Teaching Art in the Elementary School (2) F, S

Prerequisite: Ed. 311, Art 100 or the equivalent, or consent of the instructor. Objectives and methods of the elementary art program. Studio activities, creative experience and techniques appropriate to the elementary school. Lectures and studio projects. Required of elementary teaching credential candidates.

442. Teaching Art in the Secondary School (2-3) F

Prerequisites: Education 311, Education 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 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 they can serve as teacher aides in high school.

DEPARTMENT OF MUSIC

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 and/or liberal arts.
2. Students preparing to teach in the secondary schools, with a major field concentration in music.
3. Students preparing to teach in the elementary schools with a major field concentration in music (special music teachers).
4. Students preparing to teach in the junior colleges and four-year colleges with a major field concentration in music.

5. Students preparing to teach as classroom teachers in the elementary school completing work in basic musicianship and music methods for teaching general elementary classroom music.
6. Students wishing to prepare for various vocations in music, such as:
 - a. Church music directors and organists
 - b. Private teachers of music
 - 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 Orange State College, and to OSC 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. (See Entrance Placement and Proficiency Examinations)
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 OSC.
 - b. Demonstration of performance progress before a faculty jury each semester.
 - c. Appearance in at least one minor recital or an assisting performer at least once each semester.
3. All music majors will be required to participate in a music performance group each semester. Music majors are required to participate in a large ensemble each semester. Instrumental and piano majors are required to take part in small ensembles for a minimum of two semesters in addition.
4. A maximum of 10 units in music performing groups can be counted toward the bachelor of arts degree, not more than 8 of which may be in any one activity.
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.

6. Performance requirements for music majors, not in the area of performance concentration will be expected as follows:
 - a. Transfer students will be required to take entrance voice and keyboard proficiency examinations. Additional work in class or applied piano or voice will be expected of students not demonstrating a reasonable level of proficiency in both fields.
 - b. Where no transfer college level courses in voice or piano have been taken prior to admission, students will be expected to take a minimum of 2 semesters each of piano and voice.
 - c. A credential proficiency examination in both piano and voice must be satisfactorily passed before music majors may begin directed teaching. These tests are usually given at the end of the junior year.
7. Senior transfer students entering Orange State 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 OSC music majors must be satisfied prior to endorsement by the faculty committee for acceptance in the credential program.
8. Students intending to teach music in the public elementary or secondary schools and junior colleges will be required to complete the program leading toward the Bachelor of Arts, Music Education concentration. This is a five-year program, normally including one year beyond the completion of the B.A. Suitable advisement should be sought leading toward the level as well as the fields in which the student is preparing to teach.
9. All music majors will be expected to attend a weekly departmental organization class each semester of enrollment.
10. Major students expecting to qualify for teaching credentials must meet all college requirements in general education and special requirements for certification (including those of the Division of Education and Psychology). A grade point average of 2.5 is required by the Department before candidates will be recommended for admission to student teaching.

FEEES FOR APPLIED MUSIC

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

Average fee, including 16 half-hour lessons and examination, per semester \$70.00.

MUSIC DEGREE PROGRAMS

The Department of Music, Orange State College 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, 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.

All students seeking music degrees are required to study in suitable areas of specialization and to take coordinate courses in musicology, aesthetics, and general studies. The intent of this program is to develop broadly educated persons who also are competent in a craft area of music.

BACHELOR OF ARTS IN MUSIC**(Minimum Requirements)**

The program of studies leading toward the B.A. in music is designed to provide suitable preparation in such professional areas as (1) music for teaching, (2) theory and composition, (3) performance, (4) non-teaching professions in music, (5) musicology, and (6) 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.

Lower Division

<i>Theory of Music</i>	<i>Units</i>
(including musicianship, sight-singing, dictation, diatonic and chromatic harmony and keyboard).....	12
<i>Applied Techniques</i>	
(including ensemble, principal instrument or voice, basic piano and voice).....	12
Total, Lower Division	24

Upper Division

<i>Theory of Music</i>	
(including counterpoint, composition, analytic techniques and orchestration).....	8
Music History and Literature.....	4
<i>Applied Techniques</i>	
(including ensemble, principal instrument or voice).....	8
<i>Specialization in the Major</i>	
(courses required for area of specialization, to include conducting, instrumental techniques, music education and theory).....	14
Electives, music.....	2
Total, Upper Division	36
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.

**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

<i>Theory of Music</i>	Units
(including music fundamentals, musicianship, sight-singing, dictation, and harmony)	8-9
Applied Techniques	
(including ensemble, principal instrument or voice, basic piano and voice)	3-4
Total, Lower Division	12

Upper Division

<i>Theory of Music</i>	2-4
Music History and Literature	4
Applied Techniques *	
(including ensemble, orchestral instruments, conducting, piano and voice)	16
Total, Upper Division	24
Total Units, Lower-Upper Division	36

MINOR IN MUSIC**(General Secondary Teaching Credential)**

The Minor in Music is intended as a second field for persons completing a minimum 36 unit major in another discipline in preparation for the General Secondary Teaching Credential. A maximum of 12 units from the lower division may be included in work counted toward the music minor. The music minor requires a minimum preparation of 20 semester units.

Composite of Lower Division and Upper Division

<i>Theory of Music</i>	Units
(selected from musicianship, sight-singing, dictation, harmony, analytic techniques, and counterpoint)	6
Music History and Literature (MU 151A,B or selected from courses at the 300 or 400 level)	4
Applied Techniques	
(including ensemble, conducting, piano or voice, orchestral instruments, and principal instrument or voice)	10
Note: Students expecting to use a minor teaching area in instrumental music are advised to complete Mu. 181a-d and/or 381a-d. Orchestral Instruments (4 units).	
Total Units	20

**RECOMMENDED PROGRAM OF STUDIES FOR THE BACHELOR OF
ARTS IN MUSIC, MUSIC EDUCATION SPECIALIZATION**

(Music for Teaching)

Five Year Program Leading Toward the General Secondary Teaching Credential:
Refer to credential requirements, Division of Education and Psychology, 1963-64 Catalog.

In addition to the major field requirements, candidates for the general secondary credential 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 complete all requirements for general education, the

* General Elementary Candidates must take a minimum of 2 units each of piano and voice (non-principal) and pass satisfactorily the junior level proficiency in each.

academic minor and professional education (except Ed. 549 and Ed. 501) by the end of the fourth year and prior to beginning student teaching.

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

Lower Division, OSC Student

Freshman Year:

Mu 111A,B	Music Theory	6 units
Mu 151A,B	Survey of Music (General Education)	4 units
Mu 161	Performance Ensemble	2 units
Mu 170-176	Principal Instrument or Voice	2 units
Mu 182A,B	Piano, non-principal	2 units
College requirements, including general education		16 units
Total		32 units

Sophomore Year:

Mu 211A,B	Music Theory	6 units
Mu 161	Performance Ensemble	2 units
Mu 170-176	Principal Instrument or Voice	2 units
Mu 183A,B	Voice, non-principal	2 units
College requirements, including general education		20 units
Total		32 units

Pass Proficiency Examination in (1) Theory, (2) History and Literature, (3) Piano, (4) Voice, (5) Principal Instrument or Voice.

Upper Division, Including Transfer Students

Junior Year:

General Education (to complete 50)		5-10 units
Academic Minor (to complete 20 minimum)		5-10 units
Professional Education (Ed. 340A,B)		2 units
(Practicum in Secondary Education)		
Music Courses, to include:		
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
Mu 361	Performance Ensemble	2 units
Mu 371-376	Principal Instrument or Voice	2 units
Mu 381A,B	Orchestral Instruments	2-4 units
Mu 391A,B	Choral Conducting	4 units
Total		34 units

Senior Year:

General Education (to complete 50)		5-10 units
Academic Minor (to complete 20, minimum)		5-10 units
Professional Education, to include:		
Ed 311	Psychological Foundations	6 units
Ed 441	Principles and Curriculum of Sec. Ed.	2 units
Mu.Ed. 442	Teaching Music in the Secondary School	2-3 units
		11 units

Music Courses, to include:

Mu.Ed. 432	Teaching Music in the Elementary School	2 units	} 13-3 units
Mu.Ed. 441	General Music in the Junior High School	2 units	
Mu 361	Performance Ensemble	2 units	
Mu 370-376	Principal Instrument or Voice	2 units	
Mu 381c.d	Orchestral Instruments	2-4 units	
Mu 392A	Instrumental Conducting	2 units	
Total			34 units

Postgraduate Year:

Professional Education, to include:

Ed 549 and Mu 549	Student Teaching	10 units	} 12 units
Ed 501	Philosophy of Education	2 units	

Music Courses, to include:

Mu 361	Performance Ensemble	2 units	} 20 units
Mu 370-376	Principal Instrument or Voice	2 units	
Courses to complete major or toward higher degree specializations		16 units	

Total 32 units

MUSIC COURSES FOR GENERAL ELEMENTARY CREDENTIALS CANDIDATE

Required Courses

Mu.Ed. 232	Fundamentals of Music for Classroom Teachers	3
Mu.Ed. 432	Teaching Music in the Elementary School	2

Electives

Mu.Ed. 435	Children's Literature in Music	2
Mu. 376A or Mu 384A,B	Applied Piano or Piano Class for Teachers	1

Required for kindergarten-primary specialization

Mu 383A,B	Voice Class for Music Majors. Strongly recommended for those having little or no previous experience in basic vocal techniques and singing.	1
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CREDENTIAL REQUIREMENTS

1. Candidates for the General Secondary Credential, with a major in music must complete OSC general education and Education Division requirements, including a year of postgraduate work beyond the baccalaureate degree. Music Department requirements for the General Secondary include those specified for the Special Secondary Credential in Music. Preparation for the General Secondary Credential with a major in music is designed for teachers of music in the public elementary, junior and senior high schools, and junior colleges of the State of California.

MUSIC COURSES

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. Meets general education requirement. Closed to music majors.

Theory and Basic Music**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.

211A,B. Music Theory (3,3) (Planned for 1964-65)

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. Prerequisite: Mu 111B, or equivalent.

220. Structures of Music (2) S (Formerly Mu 320)

A non-technical course in the study of the form and design of music. Designed to acquaint the general college student and elementary credential candidate with the elements of musical structure, as applied to masterpieces of musical literature. Consent of instructor required.

310. Theory Review (3) F (Formerly Mu 226)

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. Counterpoint (2) F (Formerly Mu 423)

Prerequisites: Music 111A,B and 211A,B. Basic 18th Century counterpoint in two, three, and four parts.

312B. Counterpoint (2) S (Formerly Mu 424)

Prerequisites: Mu 312A or consent of instructor. Double counterpoint, canon, and fugue forms.

321A. Form and Analysis (2) F (Formerly Mu 421A)

Analysis of structural elements of music such as motive, phrase, and period; binary, ternary, rondo, and sonata-allegro forms in representative musical works. Consent of instructor required.

321B. Form and Analysis (2) S (Formerly Mu 421B)

Prerequisite: Music 321A or consent of instructor. Analysis of the larger musical forms.

322A. Composition (2) F

Prerequisites: elementary counterpoint, Music 211B or consent of instructor. Ear training, analysis of smaller forms, simple composition of two-three part song form styles.

322B. Composition (2) S

Analysis and writing of more complex musical forms. Prerequisite: Mu 322A.

323A. Orchestration (2) S (Formerly Mu 426)

Writing and analysis of orchestral music. Prerequisite: Music 211B and consent of instructor.

421A,B. Keyboard Harmony (2) (Planned for 1964-65)

Basic principles of harmonic structure as applied to the piano. Diatonic harmony and chromatic alterations.

Music History and Literature**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. Meets general education requirement.

350. Music in Our Society (3) F, S (Formerly Mu 343)

Open to all students interested. Three hours lecture and discussion, one hour listening. A non-technical course 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. Meets upper division general education requirement. Open to general students and elementary credential candidates.

351A. History and Literature of Music (3) F (Formerly Mu 441A)

A study of the history and literature of music from early Greek beginnings through the Renaissance. (Required of all music majors.)

351B. History and Literature of Music (3) S (Formerly Mu 441B)

A study of the history and literature of music covering the Baroque, Classic, Romantic, and 20th Century. Prerequisite: Music 351A, History and Literature of Music. (Required of all music majors.)

451. Music of the Baroque Period (2) (Planned for 1964-65)

Two hours lecture and discussion, one hour weekly listening. Detailed analysis and comparison of selected instrumental, vocal and keyboard musical compositions of the baroque period.

452. Music of the Classic and Romantic Period (2) (Planned for 1964-65)

Two hours weekly lecture and discussion. One hour per week listening. The development of music in the classic and romantic periods including the beginnings of opera, instrumental and symphonic developments from Haydn to Berlioz, keyboard and vocal music.

Applied Music Techniques**161, 361. Performance Groups and Ensembles****161a, 361a. Symphony Orchestra (1) F, S (1,1,1,1) (1,1,1,1) (Formerly Mu 311A)**

Open by audition to college students and qualified adults in the community. Performance of standard representative symphonic works.

161b, 361b. Symphonic Choir (1) F, S (1,1,1,1) (1,1,1,1) (Formerly Mu 311B)

Open by audition to college students and qualified adults in the community. Performance of standard representative symphonic works.

161c, 361c. 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 band literature.

162a, 362a. String Orchestra (1) F, S (1,1,1,1) (1,1,1,1) (Formerly Mu 312A)

Open to qualified string students by audition or consent of instructor. Performs representative string literature.

162b, 362b. Wind Ensemble (1) F, S (1,1,1,1) (1,1,1,1) (Formerly Mu 312B)

Open to qualified wind students by audition or consent of the instructor. Performs representative wind ensemble literature.

Class and Individual Instruction

170-176, 370-376. Principal Instrument or Voice

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 371-6, 471-6, following)

171-176, 371-376. Studio (Private) Instruction, Principal Instrument or Voice (1)
F, S (1,1,1,1) (1,1,1,1) (Formerly Mu 371)

Individual on-campus lessons with approved instructors. One unit per semester required of all music majors in the principal performing field. Special Fee.

Voice:

171, 371. Voice, Intermediate and Advanced

Strings:

172a, 372a. Violin, Intermediate and Advanced

172b, 372b. Viola, Intermediate and Advanced

172c, 372c. 'Cello, Intermediate and Advanced

172d, 372d. String Bass, Intermediate and Advanced

Woodwinds:

173a, 373a. Oboe, Intermediate and Advanced

173b, 373b. Flute, Intermediate and Advanced

173c, 373c. Clarinet, Intermediate and Advanced

173d, 373d. Bassoon, Intermediate and Advanced

Brass:

174a, 374a. Trumpet, Intermediate and Advanced

174b, 374b. Trombone and Baritone, Intermediate and Advanced

174c, 374c. French Horn, Intermediate and Advanced

174d, 374d. Tuba, Intermediate and Advanced

Percussion:

175, 375. Percussion, Intermediate and Advanced

Keyboard:

176a, 376a. Piano, Intermediate and Advanced

176b, 376b. Organ, Intermediate and Advanced

Class Instruction, Instruments or Voice, Non-Principal

*181, 381. Orchestral Instruments (1,1,1,1, or 2,2,2,2) (1,1,1,1 or 2,2,2,2)
(Formerly Mu 481)

Required of all degree candidates and for specialization in teaching.

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.

* Instrumental majors are required to take a minimum of 8 units of orchestral instruments, Mu 181-381.

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 (Formerly Mu 473)

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 (Formerly Mu 477)

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.

384A,B. Piano Class for Teachers (1) F, S (Formerly Mu 472)

Prerequisite: permission 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 (Formerly Mu 491)

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. Mu 391A is prerequisite for 391B.

392A,B. Instrumental Conducting (2,2) F, S (Formerly Mu 492)

Principles, techniques, and methods of conducting orchestral and band groups. Laboratory experience in conducting instrumental groups, using standard instrumental literature. Mu 392A is prerequisite for 392B.

591. Advanced Choral Conducting and Interpretation (2) F

Advanced problems in choral conducting techniques, with emphasis on laboratory work with student groups and in concert conducting. Prerequisite: Mu 391B, conducting experience, or consent of instructor.

592. Advanced Instrumental Conducting and Interpretation (2) S

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. Prerequisite: Mu 392B, conducting experience, or consent of instructor.

MUSIC EDUCATION**232. Fundamentals of Music for Classroom Teachers (3) F, S (Formerly Mu 332)**

The study and application of music theory as applied to skills needed as a prerequisite for Mu 432, Music in the Elementary School (methods). Includes basic theory, musicianship and practical application of techniques of singing and playing basic instruments such as the piano, autoharp, recorder and song bells. Required of all elementary credential candidates who have not previously completed the course prior to entrance at OSC.

430. Special Projects in Music Education (1-3) F, S (Formerly Mu 410)

Advanced projects relating to particular areas of teaching specialization for teachers and supervisors of music. Instructor's permission required.

432. Teaching Music in the Elementary School (2) F, S

(Same as Elementary Education 432). Prerequisite: Mu 232, Fundamentals of Music for Elementary Teachers, or successful completion of proficiency test. Required of all music education majors and classroom teachers. The study and application of music in the modern elementary school. Problems, methods, and materials, including such areas as singing, listening, rhythms, use of instruments, creative music, music for special interests, and music correlated with other areas of the elementary school curriculum. Required of all elementary teaching credential candidates.

435. Children's Literature in Music (2) S (Formerly Mu 453)

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. Prerequisite: Mu 432, or consent of instructor.

441. General Music in the Junior High School (2) F (Formerly Mu 442)

Required of all music majors working for the General Secondary Credential. Problems, materials, and methods of organization and teaching general music in the secondary school. Emphasis on the relationship of general music to the choral and instrumental program.

442. Teaching Music in the Secondary School (2-3) F, S

Required of all music majors working 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. Prerequisite: 20 units in music, Education 311, Education 340, senior standing or consent of instructor.

442a. Instrumental Methods (Formerly Mu 464)

Study of problems, materials, organization and methods of teaching the school marching band, concert band, and concert orchestra.

442b. Choral Methods (Formerly Mu 465)

Study of choral literature, with particular reference to use in public schools, colleges, community and adult education. Methods of instruction in actual use with choirs and choruses.

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.

549. Student Teaching, Music (Taken concurrently with Ed 549) (2) F, S**DEPARTMENT OF SPEECH AND DRAMA**

The Department of Speech and Drama provides for students who wish (1) to study the liberal arts program with an emphasis in an area of speech or drama, (2) to work toward professional training in an area of public address, drama, interpretation, radio television, or speech therapy and audiology, or (3) to plan for a teaching career in which speech and/or drama is either the major or minor subject.

In addition, specialized course work is provided in the fields of oral communication for prospective teachers on any level whose major or minor programs are in other areas but who wish to enhance their skill and understanding in the oral aspects of teaching and learning, for students in the business and other professional fields where ability to communicate effectively with others is important, and for all who wish specific instruction or experience in the professional and cultural phases of oral communication, drama, or speech therapy or audiology.

For both the regular and the part time students, a comprehensive forensic program is conducted, theatre opportunities are provided through experimental and play production classes, and participation in both on and off-campus speech events is encouraged. For the students in the speech and hearing program, opportunities are provided for work in the campus clinic with both children and adults, in community institutions for the speech and hearing handicapped, and in public schools. The Department of Speech and Drama seeks in all ways possible to develop an appreciation of the importance of skillful and responsible oral communication in our society.

MAJOR IN SPEECH AND DRAMA

Requirement: A total of thirty-six upper and lower division units.

Lower Division: A maximum of twelve units in speech and/or drama.

Upper Division: A minimum of twenty-four units.

COURSE PROGRAM FOR EMPHASIS IN DRAMA

Lower Division: Speech 101 (part of General Education requirement), Speech 231, Drama 211, Drama 271 or 272 (part of General Education requirement in Fine Arts), Drama 273.

Upper Division: Drama 311, Drama 314, Speech 341, Drama 376A,B, Drama 378 (3 units), Drama 379 (3 units), Drama 382, Drama 473 or 475, Speech 490, and Speech 499 (3 units special project in Drama).

COURSE PROGRAM FOR EMPHASIS IN PUBLIC ADDRESS

Lower Division: Speech 101 (part of General Education requirement), Speech 138, Speech 231, Drama 211, Drama 271 or 272 (part of General Education requirement in Fine Arts).

Upper Division: Drama 311, Speech 341, Speech 334, Speech 335, Speech 338 (2 units), Speech 424, Speech 434, Speech 436, Speech 444, Speech 490, and 499 (2 unit special project in Public Address).

COURSE PROGRAM FOR EMPHASIS IN SPEECH THERAPY AND AUDIOLOGY

Lower Division: Speech 101 (part of General Education requirement), Drama 211, Speech 231, Drama 271 or 272 (part of General Education requirement in Fine Arts).

Upper Division: Speech 341, Speech 351, Speech 404, Speech 441, Speech 443, Speech 451, Speech 452, Speech 458 (4 units), Speech 461, Speech 490, Speech 499 (3 unit project in speech therapy or audiology).

COURSE PROGRAMS FOR TEACHING CREDENTIALS

1. For the secondary, by completing one of the above major programs for the bachelor's degree and the addition of six units of upper division or graduate course work in any of these areas during the post-graduate year, and Speech 442.

2. For the elementary, by completing a twenty-four unit major which includes Drama 211 and Speech 231 (or equivalents) and these specific courses: Speech 301, Drama 402, Speech 403, Speech 441, and three units of upper division work in drama; an additional six units of upper division or graduate course work is to be taken in any area of emphasis during the post-graduate period, and Speech 432.

3. For the program leading to the special credential to teach exceptional children in the field of speech correction and lip reading, by completing the course program for emphasis in any area of speech and drama for the bachelor's degree requirement, a regular teaching credential and including during the undergraduate or post-graduate period these specific courses: Education 452, Education 472, Drama 402, Speech 458 (for a total of 6 units), Speech 459, Speech 462, Speech 463, and Speech 557 (a minimum of 4 units).

MINOR IN SPEECH AND DRAMA

Requirement: A total of twenty-four upper and lower division units. Nine of these must be upper division.

There are no specified courses for the minor; Speech 442 is recommended for students using speech and drama for a minor in the secondary program.

SPEECH AND DRAMA COURSES

Drama

211. Introduction to Orol Reading (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) S (Planned for 1964-65)

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.

273. Elementary Acting (3) F (Planned for 1964-65)

The study and command of the techniques of the art of acting. A study of style and the visual aspects of characterization appropriate to the demands of a script. Performance of laboratory scenes, readings, and exercises.

311. Oral Reading (3) F, S

Prerequisite: Speech 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.

314. Reading Theatre (3) S

Prerequisite: Speech 211 or 311. Oral reading in which the emphasis is placed on group and individual reading of dramatic literature.

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.

378A,B. Experimental Theatre (3,3) F

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) S

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.

382. Television Techniques (3) F, S

Survey of the development and current trends in television techniques, programming, and production.

383. Radio and Television Writing (3) S (Planned for 1964-65)

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

Designed to develop skills 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.

473. Analysis of Drama (3) F

Nature and purpose of drama as a living art. A study of the changing forms in the theatre in production and the influence of these forms on the culture of the time.

475. History of the Theatre (3) S

Development of the physical stage, styles of acting, makeup, costuming types, and forms of drama from ancient to modern times.

484. Educational Television Production (3) F, S (Planned for 1964-65)

Some of the activities, methods of lesson preparation, and presentation of educational television productions.

Public Address**101. Fundamentals of Speech (3) F, S**

This course is designed to give the student training in the basic principles of speaking and oral reading. Discussion, oral reading, and public speaking projects are used to approach these goals: The improvement of personal speech habits, the development of cooperative deliberation, the ability to listen with improved understanding and discrimination, and the development of some proficiency in the organization and presentation of ideas.

138A,B. Forensics (2,2) F, S (Planned for 1964-65)

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.

231. Essentials of Public Speaking (3) F, S (Planned for 1964-65)

Prerequisite: Speech 101, a high school speech course, or consent of instructor. The composition and delivery of talks to inform and to persuade. Logical organization and substantive development are stressed.

331. Public Speaking (3) F, S

Preparation and presentation of various types of public speaking. Particular emphasis is given to the substantive development and organization of materials. Open to students who have had a beginning course in public speaking, fundamentals of speech, or the consent of the instructor.

333. Business and Professional Speaking (2) F, S

Particular attention is given to the interview, sales talk, and speeches for special occasions such as introductions, goodwill talks, and information giving.

334. Advanced Public Speaking (3) S

Prerequisite: Speech 231 or equivalent. Investigation of modern rhetorical theory as applied to platform speaking. Particular attention to the use of various techniques under specific circumstances.

335. Argumentation and Debate (3) F

Argumentation as applied to formal speaking and debate. Special attention is given to logic and evidence as related analysis of significant questions for debate; case structure, and refutation.

338. 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 six units.)

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) F (Planned for 1964-65)

Prerequisite: Speech 436 or consent of the instructor. 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

A survey of ancient, medieval and modern rhetoric.

444. Persuasion (3) S

Prerequisite: Speech 334 or 335. 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 belief and conduct of groups and individuals.

490. Senior Seminar (1,1) F, S

Research and research methods in speech; an examination of current research in the several areas of speech and drama.

499A-E. Independent Study (1-3) F, S

Prerequisite: consent of instructor. Opportunity to study in one of the following areas or to conduct under supervision an independent project in: A. Stagecraft, B. Acting, C. Play Production, D. Public Address or Forensics, E. Speech Therapy or Audiology. 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.

Speech Therapy and Audiology**301. Speech for Teachers (3) F, S**

Four general areas of speech which relate directly with teaching proficiency are examined: the speech of the teacher, the speech and hearing problems of children, the use of speech as a teaching device, and the speech of the teacher in public and group situations.

302. Voice and Diction (2) F, S

Provides for speech improvement through the study and practice of correct sound formation, voice production, and manner of speaking. Recommended for students who need speech proficiency improvement for teaching.

308. Speech Improvement Laboratory (1) F, S

Prerequisite: Recommendation of Chairman of Department. This course provides for individual help on speech problems; provides for training in articulation and voice control. Designed to aid students who fail to pass the speech proficiency test for teaching.

341. Phonetics (3) F

The study of speech sounds based on the use of the International Phonetic Alphabet and the various factors influencing articulation and pronunciation. Consideration is given to the historical development of American speech and the resultant dialects.

351. Speech Science (2) S

Anatomy and physiology of the speech and hearing mechanisms.

403. Speech Development (3) S

Study of the development of normal speech in children, typical and common speech problems as well as classroom procedures for improvement.

441. Introduction to Speech Correction (3) F, S

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 341 and 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.

451. Diagnostic Methods in Speech and Hearing (3) S

Prerequisite: 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. Methods in Speech Correction (3) F

Prerequisite: Speech 443, and 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 443 and approved application for clinical practice which must be submitted during semester preceding registration for course. Practice in the correction of the speech in children and adults under supervision. May be repeated for a total of 6 units.

461. Audiometry and Aural Rehabilitation (3) F

Equipment, principles, methods, and procedures used in establishing and conducting school hearing conservation programs. Attention is given to techniques of audiometric testing and use of audiograms, principles, and methods of hearing

conservation; psychology of the acoustically handicapped child; relationship between speech and hearing; hearing aids and their use; care and use of group puretone audiometers. Meets the state requirement for public school audiometrist.

462. Speech Reading (2) S

Prerequisite: Speech 341 or consent of the 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 (Planned for 1964-65)

Prerequisite: Speech 461. Diagnostic and predictive tests of auditory functioning; types and characteristics of hearing aids; clinical practice.

557A-F. Seminar in Speech Problems (2) F, S

May be repeated for a total of 12 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.

Speech Education

432. Teaching Language Arts in the Elementary School (2) F, S

Prerequisite: Education 311, admission to teacher education. The importance of the language arts to a satisfactory personal, social, and professional life. Methods to help develop in children the skills needed for listening, speaking, and writing are studied and their effectiveness evaluated. (Reading is offered in a separate course.)

442. Teaching Speech in the Secondary School (2-3) F, S

Prerequisites: twenty units in speech, Education 311, Education 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 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.

459. Clinical Practice and Student Teaching in Speech Correction and

Lip Reading (4) S

Prerequisites: Education 339 or 549 or equivalent, 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 correction and lip reading in remedial classes.

DIVISION OF HUMANITIES

Professors: Friedrich (Chairman), Alamshah, Ramsay

Associate Professors: Becker,* Harris, Lewald, Mathieu, Maxwell, Obler, Schneider

Assistant Professors: Alexander, Brunelle, Johnson,* McNelly, Salz, Shapley
(1962-1963 Faculty)

The Division of Humanities includes the departments of English, Foreign Languages and Literatures, Journalism, and Philosophy. The Humanities faculty is therefore concerned with the teaching of various languages and effective 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.

At present, the following majors and minors are offered:

Major in English

Minor in English

Majors in French, German, and Spanish

Minors in French, German, and Spanish

Major in Humanities: Comparative Literature Emphasis

Minor in Humanities: Comparative Literature Emphasis

Major in Journalism

Minor in Journalism

Major in Language Arts

Major in Philosophy

Minor in Philosophy

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.

(The Department of Foreign Languages and Literatures publishes *MLabstracts*, a quarterly of authoritative résumés relevant to the teaching of Modern Languages.)

COMPARATIVE LITERATURE

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.

* College Administrative Officers.

BACHELOR OF ARTS DEGREE

HUMANITIES MAJOR: COMPARATIVE LITERATURE EMPHASIS

Requirements: A combined total of 36 units beyond General Education requirements 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.

312. The Bible as Literature (3) F, S

Study of the Old and New Testaments as literary art, reflecting insight into human nature and providing a foundation for understanding subsequent writings based on the Judeo-Christian tradition.

315. Classical Mythology in World Literature (3) S (Formerly 371)

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 (Formerly English 332)

Representative works in translation, from Beowulf to Dante.

351. Masters of World Drama (3) S

Reading, discussion, and interpretation of outstanding plays in translation with a view toward determining some principles of the dramatic art. Emphasis on major figures from Aeschylus to Brecht.

353. Masters of World Fiction (3) S

Reading, discussion, and interpretation of outstanding novels in translation with a view toward determining some principles of the narrative arts. Emphasis on Goethe, Stendhal, Flaubert, Tolstoy, Mann, Kafka, Proust, and others.

373. Masters of Russian Literature (3) S

Reading, discussion, and interpretation of selected works of Pushkin, Dostoyevsky, Tolstoy, Chekhov, Pasternak, and others, and their relationship to Western literature.

375. Hispanic Literature and Culture (3) F

A survey of Hispanic contributions to world culture, with emphasis on understanding contemporary Latin American civilization.

425. Literary Masterpieces of the Orient (3) F

A study of selected works from Persian, Indian, Chinese and Japanese literature and their significance in the light of Western thought.

DEPARTMENT OF ENGLISH

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 Freshman English offerings, courses in world literature in English translation are listed separately, under Comparative Literature. In addition, the Department of English offers some spe-

cialized professional courses. On the senior and graduate levels, various opportunities are provided for seminar work and independent study.

BACHELOR OF ARTS DEGREE: ENGLISH MAJOR

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

Lower Division—Maximum of 9 units, including:

221, 222. American Literature (6 units)

Lower Division elective (3 units)

Note: Students planning to transfer into the program at the beginning of the junior year, after taking their lower division work elsewhere, are advised to take freshman and sophomore courses as nearly equivalent as possible to the requirements listed above.

Upper Division (Minimum of 27 units)

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

301. Advanced Composition

303. The Structure of Modern English

454. 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 Novels

464. Modern British and American Drama

466. Modern British and American Poetry

Electives (Minimum of 9 units), selected from additional courses in language and composition, period courses, literary criticism, senior seminars, and Comparative Literature. Attention is directed to the fact that 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.

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
- 454. History of the English Language

Major Author Courses (Minimum of 6 units)

334, Shakespeare, and 333, Chaucer, or 341, Milton and the Seventeenth Century Electives (Minimum of 3 units)

BACHELOR OF ARTS DEGREE: LANGUAGE ARTS MAJOR

Language Arts combines courses in English, speech, and journalism. This major, providing a broad background in the areas of oral and written communication, is suitable for the teacher in the elementary school, where a basic function is to help children learn to read, write, speak, and listen effectively.

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

Lower Division (Maximum of 12 units)

- Composition
- World, American, or English Literature
- Course work in journalism
- Course work in speech or drama

Upper Division (Minimum of 24 units)

English courses (9 units)

including:

- English 301. Advanced Composition, or
- English 303. The Structure of Modern English
- English 334. Shakespeare
- English 345. History and Development of the English Novel

An advanced course in journalism 3 units
selected from Journalism 331, 334, or 338A,B,C,

Speech courses 7-9 units
including at least one from each of the following three groups:

- Speech 301
- Speech 311, 314, or 402
- Speech 334, 403, 404, or 424

Electives from English, journalism, or speech 3-5 units

ENGLISH

Language and Composition Courses

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) 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.

301. Advanced Composition (3) F, S

Designed to improve a writer's thinking and the thinker's 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.

387A,B,C. Creative Writing Seminar (3) F, S

Prerequisite: Evidence of student's previous interest in creative writing and consent of the instructor.

Instruction in A. Play Writing, B. Fiction Writing, and C. Poetry Writing. Study of superior models, development of style, and group criticism and evaluation of each student's independent work.

388. Creative Writing Projects (3) S

Prerequisite: English 387 or consent of the instructor.

454. History of the English Language (3) S

Prerequisite: Senior or graduate standing. The historical development of English vocabulary, phonology, morphology, and syntax from Indo-European to modern American English.

590. Graduate Seminar: Problems in Language (3) F**Literature Courses****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.

211. Masters of British Literature (3) S

An introduction to major periods and movements, major authors, and major forms. A concentrated course designed for students who are not majoring in English.

221. American Literature to Whitman (3) F, S (Formerly 321)

Emphasis on major writers: Hawthorne, Poe, Melville, Emerson, Thoreau, Whitman, and others.

222. American Literature from Twain to the Moderns (3) F, S (Formerly 322)

Emphasis on Twain, James, Crane, Hemingway, Faulkner, O'Neill, Frost, Eliot.

333. Chaucer (3) F, S

Emphasis on *The Canterbury Tales*.

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) F

Prerequisite: English 334 or consent of the instructor. Marlowe, Kyd, Greene, Jonson, and others are studied as representative of dramatic trends in Elizabethan England, including Shakespeare's more popular histories and comedies.

336. Elizabethan Poetry and Prose (3) S

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, Rossetti, Swinburne, Morris, Pater, Wilde and others. The effort to synthesize rationalism, romanticism, and realism in an area of materialism and puritanism.

345. History and Development of the English Novel (3) F

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.

411. Contemporary Interpretation of Man (3) F, S

An interdisciplinary course stressing the dominant twentieth-century philosophical interpretations of man and the imaginative expression of those views in major literary works.

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 developments of modern British and American novels from 1900 to the present.

464. Modern British and American Drama (3) F, S

Prerequisites: Survey of British, 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.

491. Senior Seminar: Studies in Chaucer (3) S

Prerequisites: English 333, B average or better, and consent of the instructor. Emphasis on *Troilus and Criseyde* and other works.

492. Senior Seminar: Studies in the English Renaissance (3) S

Prerequisites: English 334, 335, or 336, B average or better, and consent of the instructor. Directed research.

495. Senior Seminar: Studies in New England Transcendentalism (3) S

Prerequisites: English 221 and 222, B average or better, and consent of the instructor. Emphasis on the relationship between philosophy and literature.

496. Senior Seminar: Studies in the American Novel (3) F

Prerequisites: B average or better, English major, and consent of the instructor. Directed research.

498. Senior Seminar: Literary Criticism (3) S

Prerequisites: B average or better, English major, and consent of the instructor. Theory and application to selected texts.

580. Independent Study (3-6) F, S

Research projects in areas of specialization beyond regularly offered course work. Oral and written reports.

592. Graduate Seminar: Problems in Shakespeare (3) F

595. Graduate Seminar: Melville (3) F

596. Graduate Seminar: Twain (3) S

598. Graduate Seminar: Joyce (3) S

599. Graduate Seminar: Comparative Literature (3) S

For World Literature in English translation see courses under COMPARATIVE LITERATURE.

English Education

432. Teaching Language Arts in the Elementary School (2) F, S

Prerequisite: Education 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.

433. Children's Literature (2) F, S

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.

442. Teaching English in the Secondary School (2-3) F, S

Prerequisites: Education 311, Admission to Teacher Education. Principles, methods, and materials of teaching English in the secondary school.

DEPARTMENT OF FOREIGN LANGUAGES AND LITERATURES

Courses are 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. A student may enroll at any point in the sequence of courses for which his previous study has prepared him. 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 to pursue graduate studies. The program emphasizes high standards of achievement in the practical use of the language, in the study of its literature, in the mastery of applied linguistics, and in methodology of teaching, the latter acquired in part through apprenticeship.

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), 351, 361, 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 the requirements for a Major in a Single Language and, in addition, the requirements for a Minor in a 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**General Elementary Credential**

Students who are candidates for the General Elementary Credential must also complete the professional requirements, including Foreign Languages Education 432.

General Secondary Credential

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

Foreign Languages Education 442;

Foreign Languages Education 455;

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.

French**101. Fundamental French (4) (3 hours lecture, 2 hours laboratory) F**

Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the sounds and the basic forms and structure of French.

102. Fundamental French (4) (3 hours lecture, 2 hours laboratory) S

Prerequisite: French 101 (or equivalent). Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the basic forms and structure of French.

203. Intermediate French (3) (3 hours lecture, 1 hour laboratory) 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.

204. Intermediate French (3) (3 hours lecture, 1 hour laboratory) 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.

315. Introduction to French Literature (3) F

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 Grammar and Composition (3) S (Formerly 316)

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.

351. French Literature to 1800 (3)

Evolution of French literature and thought, through analysis of representative works, from the *chanson de geste* to Pre-Romanticism. Conducted in French.

361. French Literature Since 1800 (3)

The principal movements and authors of the 19th and 20th centuries (Romanticism, Realism, Naturalism, Symbolism, Surrealism, etc.), through analysis of representative works. Conducted in French.

400. French for Teachers (3) S (Formerly 411)

Intensive review of spoken French using recent developments in methodology and texts as subject materials.

451. French Classicism (3) F

Essence and evolution of *le classicisme*, studied principally in the works of the major 17th century authors (Corneille, Molière, 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 *philosophies* and the current of sensibility. Emphasis on major authors (Voltaire, Rousseau, Diderot, Marivaux, Laclos). Conducted in French.

471. Contemporary French Literature (3) (Planned for 1964-65)

An introduction to the major figures of the 20th century, including the generations of Proust, Apollinaire, Malraux, Sartre and Robbe-Grillet. Conducted in French.

480. Independent Study in French (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 curricular problems. Selection of subject to be studied varies. May be repeated for credit.

557. Seminar in French Lyric Poetry (3) (Planned for 1964-65)

The evolution of the lyric from the Troubadours to the present, with emphasis on its changing form and function. Conducted in French.

German**101. Fundamental German (4) (3 hours lecture, 2 hours laboratory) F**

Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the sounds and the basic forms and structure of German.

102. Fundamental German (4) (3 hours lecture, 2 hours laboratory) S

Prerequisite: German 101 (or equivalent). Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the basic forms and structure of German.

203. Intermediate German (3) (3 hours lecture, 1 hour laboratory) F

Intensive practice in speaking, understanding, reading, and writing based on cultural and literary materials. Linguistic analysis from sound to sentence.

204. Intermediate German (3) (3 hours lecture, 1 hour laboratory) 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.

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 Grammar and Composition (3) S (Formerly 316)

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.

351. The Works of Lessing and Schiller (3) F

Intensive study of the major works of Lessing and Schiller illustrating their thought and art. Conducted in German.

361. The Works of Goethe (3) S

Intensive study of selected works of Goethe illustrating his thought and art. Conducted in German.

400. German for Teachers (3) (Formerly 411)

Intensive review of spoken German using recent developments in methodology and texts as subject materials.

451. German Literature to Goethe (3)

Analysis of 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)

Analysis of major works illustrating the development from Romanticism to Expressionism in the setting of their intellectual and historical climate. Conducted in German.

471. The German Novelle (3) (Planned for 1964-65)

A study of the German Novelle from Goethe to the present, including works by Kleist, Mann, Kafka, Dürrenmatt, with emphasis on the uniqueness of this genre.

475. The German Drama (3) (Planned for 1964-65)

A study of the leading dramatists from Gryphius to Frisch, including works by Kleist, Grillparzer, Hebbel, Hauptmann, Brecht, with emphasis on various approaches to this genre.

480. Independent Study in German (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.

Russian**101. Fundamental Russian (4) (3 hours lecture, 2 hours laboratory) F**

Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the sounds and basic forms and structure of Russian.

102. Fundamental Russian (4) (3 hours lecture, 2 hours laboratory) S

Prerequisite: Russian 101 or equivalent. Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the basic forms and structure of Russian.

203. Intermediate Russian (3) (3 hours lecture, 1 hour laboratory) F

Prerequisite: Russian 102 or equivalent. Intensive practice in speaking, understanding, reading, and writing based on cultural and literary materials. Linguistic analysis from sound to sentence.

204. Intermediate Russian (3) (3 hours lecture, 1 hour laboratory) 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.

480. Independent Study in Russian (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.

Spanish**101. Fundamental Spanish (4) (3 hours lecture, 2 hours laboratory) F**

Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the sounds and the basic forms and structure of Spanish.

102. Fundamental Spanish (4) (3 hours lecture, 2 hours laboratory) S

Prerequisite: Spanish 101 or equivalent. Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the basic forms and structure of Spanish.

203. Intermediate Spanish (3) (3 hours lecture, 1 hour laboratory) 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.

204. Intermediate Spanish (3) (3 hours lecture, 1 hour laboratory) S

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.

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) S

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 Grammar and Composition (3) S (Formerly 316)

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.

351. The Golden Age (3) F

Intensive study of the works of the major writers, including Cervantes, Lope de Vega, Tirso and Calderón. Conducted in Spanish.

361. Latin American Literature (3) S

The novel, essay and poetry from 1800 to the present. Conducted in Spanish.

400. Spanish for Teachers (3) S (Formerly 411)

Intensive review of spoken Spanish, using recent developments in methodology and texts as subject material.

451. Spanish Literature to the Golden Age (3)

Analysis of major works against the historical-cultural background of the various literary periods. Conducted in Spanish.

461. Spanish Literature Since Neoclassicism (3)

Analysis of representative works of the 19th and 20th century, from Neoclassicism to "*tremendismo*," against the historical-cultural background of the time. Conducted in Spanish.

471. Literature of the Nineteenth Century in Spain (3)

The literary currents and foreign influences on Spanish literature. Analysis of Romanticism, Eclecticism, Realism, and Naturalism. Conducted in Spanish.

475. Contemporary Literature of Spain (3)

The Generation of the '98, the theatre of Benavente and Lorca, *modernista* and *post-modernista* poetry, and the "*tremendista*" novel. Conducted in Spanish.

480. Independent Study in Spanish (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. Seminar in Latin American Poetry (3) F (Planned for 1964-65)

Study of the *modernismo* movement.

567. Seminar in the Latin American Novel (3) S (Planned for 1964-65)

Naturalism, Regionalism, and the novel of the Mexican Revolution.

FOREIGN LANGUAGES EDUCATION

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.

455. Applied Linguistics in the Teaching of French, German, or Spanish (3)

Introduction to general linguistics with emphasis on the relation of speech and writing, the theory and practice of pronunciation, and the phonemic and morpho-phonemic structure of the language under study.

DEPARTMENT OF JOURNALISM

The journalism program serves students with interests in mass communication by offering a curriculum integrating the liberal arts and professional courses in basic media techniques. The department helps to prepare those desiring careers in newspaper and magazine writing and editing, advertising, television and radio news-casting, public relations, industrial editing, and the teaching of Journalism-English. Its courses will also benefit those who wish only a better understanding of the functions of the mass media in a democratic society.

MINOR IN JOURNALISM

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

Lower Division (Maximum of 7)

Journalism 101 (3)

Journalism 218 AB (2-2)

Upper Division (Minimum of 14 units)

Journalism 331 or equivalent

At least five units from the following: Journalism 332, Journalism 338 AB, Journalism 358 AB, or Journalism 448.

At least six units from the following: Journalism 333, or Journalism 425, Journalism 426 or Journalism 427.

Electives approved by the adviser to complete the 21 units requirement.

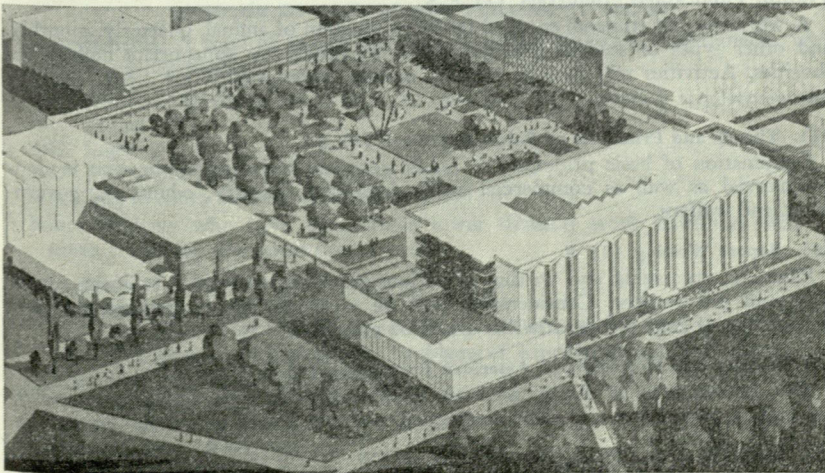
JOURNALISM

101. News Writing (3) F

Introduction to news reporting and writing, with emphasis on news gathering, evaluation, and the principles of clarity and conciseness.

102. News Writing (3) S

Prerequisite: Journalism 101. Concentration on writing of more advanced news stories and news-features.



Portion of the future campus of Orange State College

218A,B. Press Photography (2) F, S

A lecture and laboratory course in photographic theory and the application of photographic principles.

331. News Communication (3) F

An introduction to the news communication media, with experience in news writing. (Recommended for credential candidates.)

332. Copy Editing and Makeup (3) S

Practice and theory of editing of materials for various types of publications, including selection of materials, copyreading, headline writing, proofreading, and makeup.

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) S

Non-fiction writing for newspapers and magazines, including study of sources, methods, and markets. Open to non-majors.

335. Reporting of Public Affairs (3) (Planned for 1964-65)

Coverage in depth of significant events pertinent to operations of governmental units and related organizations.

338A,B,C. 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 student newspaper. The group meets four hours per week for critiques in news reporting, writing, editing and makeup, followed by production.

353. Advertising Copy and Layout (3) (Planned for 1964-65)

Writing of copy and layout of advertisements, based on study of sales appeals, attention factors, and illustrations.

358A,B. Publications Production (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 Principles of Public Relations (3) S

Examination of basic principles of public relations and their application in non-commercial as well as commercial fields, including industry, education, government, and welfare.

401. Report Writing (3) F

Planning, organizing and writing of various kinds of reports for business, education, and government. Consideration will be given to use of graphic aids and preparation of copy for reports that are to be printed.

425. History and Philosophy of American Journalism (3) F

The development of American mass communication, with emphasis on newspapers and periodicals, and their 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 the instructor. Consideration of such problems 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 summer (or equivalent) internship with a newspaper, magazine, radio or television station, press association, advertising agency, or public relations firm.

448A,B. Special Projects in Mass Communication (2) 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.

JOURNALISM EDUCATION**442. Teaching Journalism in the Secondary School (3) (Formerly 411)**

(Planned for 1964-65). Theory and technique of advising school newspaper and yearbook staffs. Relation of classroom instruction to staff assignments. Designed for credential candidates in English and Language Arts who may supervise school publications.

DEPARTMENT OF PHILOSOPHY

Philosophical study seeks to investigate human ways of thinking and valuing, and to draw out the implications of these activities for the life of society. Course work in philosophy is designed to provide both breadth and depth of understanding in these areas for all students, those who are preparing for other professions as well as those who intend to pursue graduate work in this field.

The philosophy curriculum has therefore the following objectives:

- (1) to help students clarify their own philosophical concerns;
- (2) to uncover and to discuss sound methodology for the solution of philosophical problems;
- (3) to prepare students 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)

- 101. Ethics (3)
- 201. Logic (3)
- 211. The Older Schools of Philosophy (3)
- 212. The Modern Schools of Philosophy (3)

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 (12 units)

- 331. The History of Philosophy: Problems of Being and Becoming (3)
- 332. The History of Philosophy: Problems of Knowledge and Valuing (3)

Plus choice of one of the following:

- 417A, 417B. Aristotle (6)
- 427A, 427B. Spinoza (6)
- 447A, 447B. Plato (6)
- 467A, 467B. Kant (6)

480. 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.

MINOR IN PHILOSOPHY

Requirements: A total of 21 units.

Lower Division (Maximum of 9 units), selected from:

- 101. Ethics (3)
- 102. Logic (3)
- 211. The Older Schools of Philosophy (3)
- 212. The Modern Schools of Philosophy (3)

Upper Division (Minimum of 12 units)

- 331. History of Philosophy: Problems of Being and Becoming (3)
- 332. History of Philosophy: Problems of Knowledge and Valuing (3)
- Electives (6 units)

Philosophy Courses

101. Ethics (3) F, S (Formerly 301)

Analysis of problems of human conduct: the problems of motivation, valuing, norms, social demands, and personal commitments.

201. Logic (3) F

Analysis of the various forms given to propositions and the basic requirements necessary for valid inference.

211. The Older Schools of Philosophy (3) F

A study of the viewpoints which constitute such world-views as Materialism, Platonism, Stoicism, Mysticism, and Scholasticism.

212. The Modern Schools of Philosophy (3) S

A study of the viewpoints which constitute the world-views of Idealism, Realism, Positivism, Pragmatism, and Existentialism.

250. Philosophy of Ideas (3) F (Formerly 311)

Analysis of basic ideas which have shaped modern thought.

301. Comparative Study of the World's Great Religions (3) S

A study of man's religious impulse from the philosophical standpoint. An attempt will be made to analyze and to compare the religious impulse as expressed in the theologies of Christianity, Islam, Buddhism, and Hinduism.

331. History of Philosophy: Problems of Being and Becoming (3) F

Analysis and survey of the two fundamental problems of philosophy: Being and Becoming. The contributions of the great philosophers to these problems will be considered.

332. History of Philosophy: Problems of Knowledge and Valuing (3) S

Analysis and survey of the problems of Knowledge and Valuing. The contributions of the great philosophers to these problems will be considered.

401. Philosophy of Aesthetics (3) S (Planned for 1964-65)

An investigation into the conditions and the requirements of aesthetic experience.

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.

411. Contemporary Interpretations of Man (3) F, S

An interdisciplinary course stressing the dominant twentieth-century philosophical interpretations of man and the imaginative expression of those views in major literary works.

417A. Seminar in Aristotle's Scientific and Speculative Views (3) F

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

A study of the problems of human conduct, government, and art.

427A. Seminar in Spinoza's Ethics and Metaphysics (3) F (Planned for 1964-65)

A detailed and critical study of Spinoza's views concerning the nature of man and the problems of conduct.

427B. Seminar in Spinoza's Political Theory (3) S (Planned for 1964-65)

A detailed and critical study of the *Tractatus Theologicus-Politicus* and the *Tractatus Politicus*.

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*.

467A. Kant's Theory of Knowledge (3) F (Planned for 1964-65)

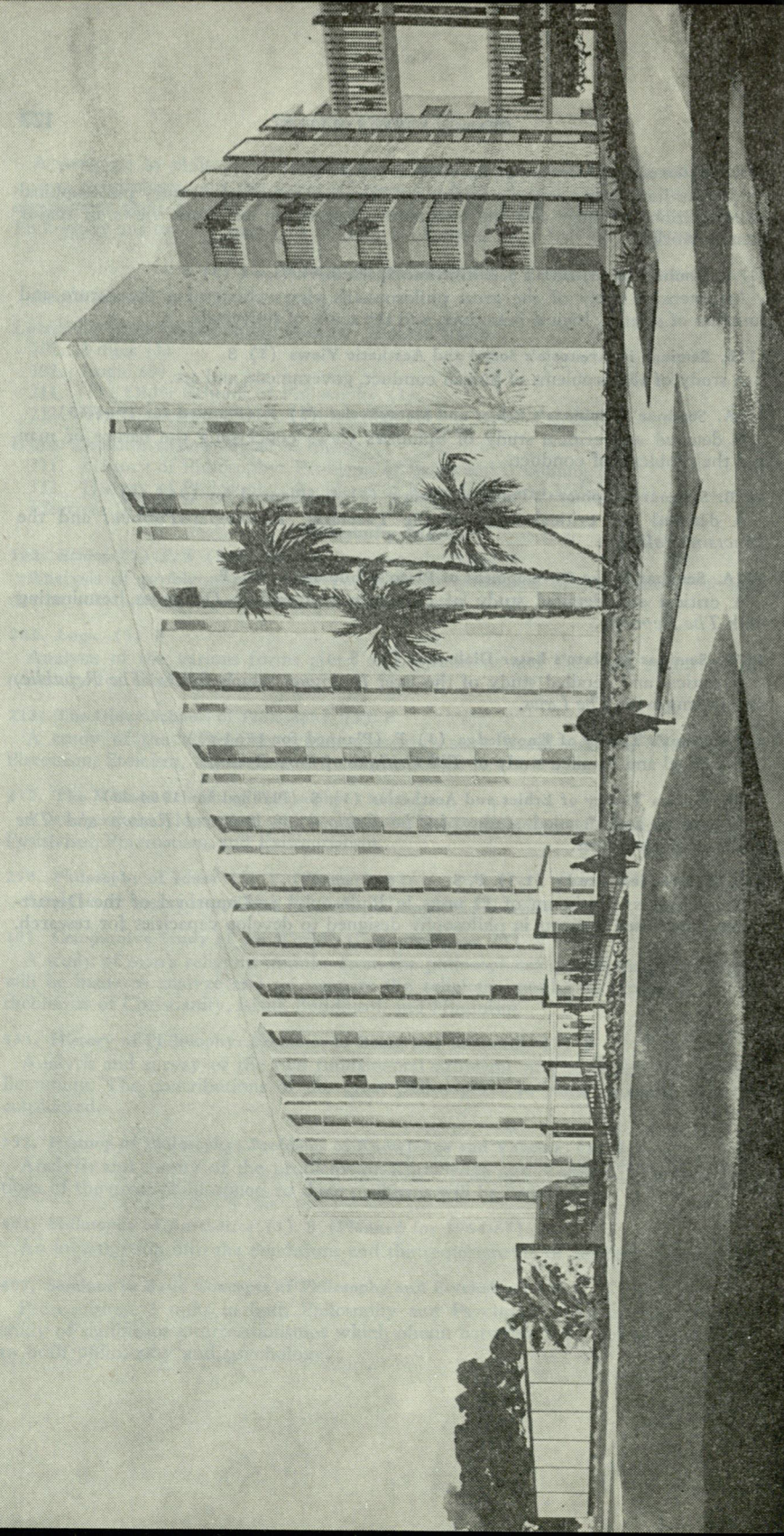
A critical and detailed study of *The Critique of Pure Reason*.

467B. Kant's Theory of Ethics and Aesthetics (3) S (Planned for 1964-65)

A critical and detailed study of *The Critique of Practical Reason* and *The Critique of Judgment*.

480. Independent Study (1-3) F, S

Prerequisites: Minimum of 12 units in Philosophy and approval of the Department. Supervised projects in philosophy designed to develop capacities for research.



New Letters and Science Building, now housing the entire College until the next permanent buildings are completed

DIVISION OF SCIENCE, MATHEMATICS AND ENGINEERING

Professors: McCarthy (Chairman), Adams, Ames, Bryden, Lay, McCleary

Associate Professors: Brattstrom, O'Toole, Sutton, Turner

Assistant Professor: Stiel

(1962-1963 Faculty)

(The following additional appointments have been authorized for the Academic Year 1963-64: Two in Biology, two in Chemistry, one in Engineering, two in Mathematics, two in Physics.)

The Division of Science 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.

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. The requirement may also be met by examination. 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:

Physics or Chemistry 201	4 units	4
Biology 100	2 units	2
Biology 140	3 units	3
or		
Biology 160	3 units	3
Total		9

* Students preparing for admission to medical school should register with the Chairman of the Premedical Committee through the Office of the Dean of Students.

BACHELOR OF ARTS DEGREE IN BIOLOGICAL SCIENCE

One hundred twenty-four units including general education (See page 41), foreign language * (See divisional requirement page 129), 32 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 analytical geometry and calculus, and one year of college physics with laboratory.

Minimum Course Requirements for the Major †

Lower Division

Biological Science	Units
100 Principles of Biology	2
140 Principles of Botany	3
160 Principles of Zoology	3
	—
	8

Upper Division

Biological Science	Units
311 General Microbiology	4
312 Genetics Lecture	3
412 Cell Physiology and Metabolism	2
412L Cell Physiology Laboratory	2
400 Undergraduate Problems in Biology	1
Electives—12 units, of which 4 must be outside area of emphasis	12
	—
	24
	32

Minimum Requirements for Biological Science Minor †

Biological Science	Units
100, 140 and 160	8
424 Evolution with laboratory	
or	4
312 Genetics with laboratory	4
311 General Microbiology	4
Biological Science Elective	4
400 Undergraduate Problems in Biology	1
	—
	21

BIOLOGICAL SCIENCE

Biological Principles

100. Principles of Biology (2) F, S

Prerequisite: None. An introduction to basic concepts of structures and function in biological organisms and to modern biological problems. Required for all Biology majors and suggested course for non-science majors for completing the general education requirements of the natural sciences. (2 hours lecture per week.)

* 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 Orange State College.

† 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.

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 study 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.

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.)

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.

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.)

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 (3) F

Prerequisites: Bio.Sci. 100 and Physics-Chemistry 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. 3 hours laboratory or field work 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.

Botany Area**140. Principles of Botany (3) F, S**

Prerequisite: None. This course is designed to integrate with the Principles of Biology course. Emphasis will be placed on the dynamic aspects of botany through the traditional areas of morphology and classification will not be neglected.

Required for all Biology majors and suggested course for non-science majors for completing the general education requirements of the natural sciences. (2 hours lecture, 3 hours laboratory per week.)

141. General Botany (4) F

Brief survey of lower plant life. More detailed study of flowering plants. (2 hours lecture, 6 hours laboratory per week.)

342. Plant Anatomy (4) F

Prerequisite: General Botany or 1 year of college biology. The origin, development, and maturation of leaves, stems, roots, and flowers of vascular plants. (2 hours lecture, 6 hours laboratory per week.)

344. Plant Morphology (4) S

Prerequisite: General Botany or 1 year of college biology. 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.)

441. Plant Taxonomy (4) S

Prerequisite: General Botany or 1 year of college biology. 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) S

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: General Botany 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.)

Microbiology Area

311. General Microbiology (4) F

Prerequisite: 1 year of college biology. Consideration of the diverse biological characteristics of bacteria and other microorganisms will be extended to study of these life forms as agents of change in natural processes. The laboratory will introduce the methods used to study microbes and will demonstrate the roles of microbes in agriculture, industry and in health. (2 hours lecture, 6 hours laboratory per week.)

413. Basic Pathogenic Microbiology (2) S

Prerequisite: 1 semester of microbiology or bacteriology. Selected topics in the biology of infectious disease: A biological view of parasitism, pathogenicity of the microorganisms, and defenses of the host, the microbiological bases of disinfection, chemotherapy and antibiotic therapy. (2 hours lecture per week.)

413L. Pathogenic Microbiology Laboratory (2) S

Prerequisite: Bio.Sci. 413 (may be taken concurrently) or permission of the instructor. (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 of the earth's surface. (2 hours lecture per week.)

439L. Microbial Ecology Laboratory (2) S

Prerequisite: 1 semester microbiology; normally Bio.Sci. 439 will be taken concurrently. Laboratory experiments will show basic principles of enrichment, selection and succession. On completion of the basic experiments each student will select and perform an independent study in microbial ecology. (6 hours laboratory per week.)

Zoology Area**160. Principles of Zoology (3) F, S**

Prerequisites: None. An introduction to the principles of Animal Biology with special reference to the structure, classification, physiology, behavior and ecology of animals. Required for all Biology majors and suggested course for non-science majors for completing the general education requirements of the natural sciences. (2 hours lecture, 3 hours laboratory per week.)

361. Mammalian Anatomy and Physiology (4) F, S (Planned for 1964-65)

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.)

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 organogenesis 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.)

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.)

BACHELOR OF ARTS DEGREE IN CHEMISTRY

This 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.

The minimum requirements for the B.A. degree with a major in chemistry are given below: *

Lower Division Chemistry	16	
Upper Division Chemistry	18	
Electives in Chemistry	9	
Total Units in Chemistry	43	43
Required Science and Mathematics Courses (other than Chemistry)	31	31
Total Science and Mathematics Units		74
General Education units (in addition to 12 units of Physical and Biological Science and Mathematics)	38	38
Undesignated electives	12	12
Total units for the B.A. degree		124

The required Science and Mathematics courses are as follows:

Lower Division

General Chemistry	10
Quantitative Analysis	6
	16

Upper Division

Organic Chemistry	8
Physical Chemistry	6
Physical Chemistry Laboratory	3
Chemical Literature	1
	18

Required Science Prerequisites:

Physics	12
Analytic Geometry and Calculus	14
Biology	5
	31

Proficiency in one modern foreign language (Russian, German, French) is required. (See Divisional requirement, page 129.)

Minor in Chemistry

A minimum of 22 units of Chemistry, including 9 upper division units, are needed for a minor. These should include General Chemistry (10), or equivalent, Quantitative Analysis (3), and either Organic Chemistry (10), or Physical Chemistry (6) and Physical Chemistry Laboratory (3). It is recommended that both Physical Chemistry (6) and Organic Chemistry (8) be taken (14 upper division units).

Chemistry

101A,B. General Chemistry (5,5) F, S

Prerequisites: High school algebra and either high school chemistry or physics. The fundamental principles of chemistry with emphasis on the chemistry of inorganic compounds. (3 hours lecture, 6 hours laboratory per week.)

201. Physical Science for Non-Science Majors (4 or 5) F, S

Prerequisites: 1 year of high school algebra or equivalent, or permission of instructor. Taught jointly by the departments of chemistry and physics, this course presents the essential unifying features of the basic physical sciences, chemistry and physics. The modern concepts of the physical and chemical theory of atomic and

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

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 chemistry) are included to provide the necessary background material. Meets the general education physical science requirement. May not be taken for credit by science majors or mathematics majors. 4 hours lecture, 1 hour recitation per week.)

211A,B. Quantitative Analysis (3,3) F, S

Prerequisites: Chemistry 101A,B. or equivalent. The fundamentals of volumetric and gravimetric methods of analysis are covered in the first semester. The second semester continues with advanced volumetric, gravimetric methods, and electro-analytic methods. (2 hours lecture, 6 hours laboratory per week.)

301A,B. Organic Chemistry (4,4) F, S

Prerequisite: Chemistry 101A,B. or equivalent. The classification, fundamental theories, preparation, and properties of the carbon compounds are discussed. Experiments illustrating the properties and preparative methods of representative aliphatic and aromatic compounds are performed in the laboratory. (3 hours lecture, 3 hours laboratory per week.)

302A,B. Organic Chemistry Laboratory (1,1) F, S

Taken concurrently with Chemistry 301A,B. Additional experiments in organic chemistry. Recommended for Chemistry majors. (3 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 equilibria, electrochemistry, atomic and molecular structure, and kinetics are covered. (3 hours lecture per week.)

400. Independent Study and Research (1-3) F, S

Open to students with advanced standing in Chemistry by permission of a staff member only. May be repeated for credit.

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.)

441. Physical Chemistry Laboratory (3) F, S

Prerequisite: Chemistry 371A,B. May be taken concurrently with Chemistry 372 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. The application of thermodynamic principles to chemical processes.

471. Chemical Constitution (3) F

Prerequisite: 2 years of college chemistry or permission of the instructor. Advanced discussion of topics related to the chemical bond. The periodic system, bond types, and the structure of molecules and crystals. (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.)

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.)

ENGINEERING

A program leading to the Bachelor of Arts degree with a major in physical science and engineering is being planned. Freshman students wishing to elect such a program will be accepted for the academic year 1963-64 and will be expected to follow the program recommended for the physics major during their first year. The engineering major will not be available to upper division transfer students during the academic year 1963-64.

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

- (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. (See Divisional requirement, page 129.) Attention is called to all divisional requirements on page 129.

Minimum Requirements

<i>Required Courses</i>	<i>Units</i>
Analytic Geometry and Calculus	14
Linear Algebra	3
Differential Equations	3
Advanced Calculus	6
Modern Algebra	3
Complex Analysis and/or Real Analysis	6
Differential Geometry or Projective Geometry	3
Elements of Set Theory or Elementary Topology	3

Bachelor of Arts Degree Major Program in Mathematics for Teacher Education

		Units
I. Elementary Education		
Analytic Geometry and Calculus Math 150A-B	8	
(These or equivalent courses arranged by conference)		
Math. 250 Intermediate Calculus	6	
Math. 330 Number Theory	3	
Math. 301 Fundamentals of Mathematics-Geometry	3	
One of:		
Math. 291 Linear Algebra	3	
Math. 300 Fundamentals of Mathematics-Algebra		
One of:		
Math. 310 Differential Equations	3	
Math. 292 Mathematical Logic		
	18	18
Total		26
II. Secondary Education		
Analytic Geometry and Calculus	8	8
(These or equivalent courses arranged by conference)		
Math. 250 Intermediate Calculus	6	
Math. 310 Differential Equations	3	
Math. 300 Fundamentals of Mathematics-Algebra	3	
Math. 301 Fundamentals of Mathematics-Geometry	3	
Math. 330 Number Theory	3	
One of:		
Math. 291 Linear Algebra	3	
Math. 292 Mathematical Logic		
	29	29
Post-graduate Year:		
Math. 305 Elements of Set Theory	3	
Math. 407 Modern Algebra	3	
Math. 413 Elementary Topology	3	
	9	9
Total		38

MATHEMATICS**100A. Axiomatic Arithmetic (3) F (Formerly Math. 231A)**

Prerequisites: Beginning in 1965 a prerequisite for this course will be two years of high school algebra. The logical structure of arithmetic from an axiomatic viewpoint. Emphasis will be on the contrast between models of the number system and numbers as mathematical objects. Axioms and theorems in calculation with applications.

100B. Axiomatic Arithmetic (3) S (Formerly Math 231B)

Prerequisite: Math. 100A. A continuation of Math. 100A.

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, probability, theory of games and linear programming. It is particularly suited to students of economics, the biological and social sciences.

150A. Analytic Geometry and Calculus (4) F, S

Prerequisites: 4 years of high school mathematics inclusive of trigonometry and a passing score in the placement test.

150B. Analytic Geometry and Calculus (4) F, S

An introduction to analysis including analytic geometry, functions, continuity, differentiation, the definite integral, integration, applications.

250A. Intermediate Calculus (3) F (Formerly Math. 290A)

Prerequisites: Math 150A-B or equivalent.

250B. Intermediate Calculus (3) S (Formerly Math. 290B)

Prerequisite: Math. 250B. A continuation of Math. 150. Topics include Taylor's theorem, infinite series, functions of several variables, partial differentiation, multiple integrals, applications.

291. Linear Algebra (3) F (Formerly Math. 390)

Co-requisite: Math. 250A. The study of matrices, determinants, vector spaces, linear transformations.

292. Mathematical Logic (3) S (Formerly Math. 414)

Prerequisite: Math. 250A. An introductory course to the elements of mathematical logic.

300. Fundamental Concepts of Mathematics—Algebra (3) F (Formerly Math. 409)

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) S (Formerly Math. 408)

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.

305. Elements of Set Theory (3) F (Formerly Math. 411)

Prerequisite: Math. 250B. Operations on sets; functions; cardinals and ordinals; ordering, well ordering; axiom of choice; transfinite numbers.

310. Differential Equations (3) F

Prerequisite: Math. 250B. An introduction to existence theorems and the theory of differential equations.

320. Projective Geometry (3) S

Prerequisite: Math. 291. Homogeneous coordinates, projective group, cross-ratio, duality, point and line conics.

325. Differential Geometry (3) F (Formerly Math. 405)

Prerequisite: Math. 250B. An introductory course in differential geometry.

330. Number Theory (3) S (Formerly Math. 410)

Prerequisite: Math. 250B. Divisibility, congruences, prime number theory, Diophantine problems.

335. Probability and Mathematics Statistics (3) S (Formerly Math. 400)

Prerequisite: Math. 250B. An introductory course to probability theory and its applications, based on use of the calculus.

350A. Advanced Calculus (3) F (Formerly Math. 403A)

Prerequisite: Math. 250B, Math. 291.

350B. Advanced Calculus (3) S (Formerly Math. 403B)

Prerequisite: Math. 350A. 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.

406A. Applied Mathematics (Multilinear Analysis) (3) F

Prerequisites: Math. 291, Math. 350A. Linear algebra, tensor products and Grassman products, geometric interpretation. Multilinear algebra, convergence, Hilbert space, Daniell integral, distributions, spectral theory of linear operators.

406B. Applied Mathematics (Functional Equations) (3) S

Prerequisites: Math. 406A, Math. 350B. Applications of multilinear analysis, integral transformations, approximation theory, difference equations, ordinary and partial differential equations, harmonic analysis, integral equations.

407A. Modern Algebra (3) F

Prerequisite: Math. 291.

407B. Modern Algebra (3) S

Prerequisite: Math. 407A. Sets, mappings, groups, rings, modules, fields, homomorphisms, integers, rational and real numbers, advanced topics in vector spaces and theory of linear transformations, matrices, algebras, ideals, Galois theory.

412A. Complex Analysis (3) F

Co-requisite: Math. 350A.

412B. Complex Analysis (3) S

Co-requisite: Math. 350B. An introduction to the study of functions of a complex variable.

413. Elementary Topology (3) S

Prerequisite: Math. 350A. An introductory course to point set and algebraic topology.

450A. Real Analysis (3) F

Prerequisite: Math. 350B.

450B. Real Analysis (3) S

Prerequisites: Math. 350B, Math. 450A. An introductory course in modern functional analysis. Measure theory, differentiations and theories of integration. Hilbert and Banach spaces, linear transformations and spectral theories.

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.

The minimum departmental requirements for the degree are given below.*

Required Courses

Lower Division

General Chemistry (10), units distributed: 4 to General Education, 6 to departmental requirement	6
Mathematics-Analytic Geometry and Calculus (14), units distributed: 3 to General Education, 11 to minor requirement	11
Physics (12), prerequisite to major	12
Total	29

Proficiency in one modern foreign language (Russian, German, French) is required. (See Divisional requirement, page 129.)

Upper Division

Physics Courses

†441. Analytical Mechanics	3
†431. Electricity and Magnetism	3
†411. Theory of Wave Motion (acoustics, physical optics, and atomic spectra)	3
†453. Nuclear Physics or 451 Modern Physics	3
†416. Thermodynamics and Introduction to Kinetic Theory	3
†455. Introduction to Quantum Physics	3
381. Advanced Physics Laboratory (electrical measurements and electronics)	2
382. Advanced Physics Laboratory (mechanics, acoustics, physical optics, atomic spectra)	2
481. Advanced Physics Laboratory (atomic and nuclear physics)	2
482. Advanced Physics Laboratory (selected experiments in classical and modern physics)	2
Total	26

MATHEMATICS

Courses in advanced calculus, differential equations, modern algebra, modern analysis, etc., chosen in consultation with physics department adviser to fulfill minor requirement

Total upper division requirement 35

Mathematics Minor

A minor in mathematics is required for the B.A. degree. The minor consists of 20 units (minimum) of mathematics, of which a minimum of 9 must be upper division courses. (These units have been included in the above description of required courses.)

Summary of Degree Requirements (Minimum)

Total required units prerequisite to major, in major, and in minor, both upper and lower division	64
Total general education requirements	50
Total electives (students are advised to choose electives outside the major field)	10
Total minimum units required for degree	124

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.

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

† These courses will normally be taken in the order listed.

PHYSICS *

201. Physical Science for Non-Science Majors (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 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 chemistry) are included to provide the necessary background material. Meets the general education physical science requirement. May not be taken for credit by science majors or mathematics majors. (4 hours lecture, 1 hour recitation per week.)

221. Fundamental Physics (4) F, S

Prerequisite: 4 units of Analytic Geometry and Calculus; corequisite: additional 4 units of Analytic Geometry and Calculus. Fundamental classical physics including mechanics, heat and thermodynamics, acoustics, and wave motion. (4 hours lecture, 3 hours laboratory per week.)

222. Fundamental Physics (5) S

Prerequisite: Physics 221 with a grade of C or better. Fundamental classical and modern physics, including physical optics, electricity and magnetism, and an introduction to modern physics. (5 hours lecture, 3 hours laboratory per week.)

223. Fundamental Physics (3) (Planned for 1964-65)

Prerequisite: Physics 222 with a grade of C or better. 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 9 units of Fundamental Physics I and II. (3 hours lecture per week.)

381. Advanced Physics Laboratory (2) F

Prerequisite: Physics 222 with a grade of C or better. 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.)

382. Advanced Physics Laboratory (2) S

Prerequisite: Physics 381 with a grade of C or better or consent of instructor. Selected experiments in mechanics, acoustics, physical optics, and atomic spectra. (1 hour lecture, 6 hours laboratory per week.)

411. Theory of Wave Motion (3) (Planned for 1964-65)

Prerequisites: 1 year college physics, calculus. 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: 1 year college physics, calculus, differential equations. 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.

431. Electricity and Magnetism (3) F

Prerequisites: 1 year college physics, calculus. Corequisites: advanced calculus, or permission of the instructor. Theories of electrostatics, electrodynamics, and electromagnetic waves. Introduction to magnetohydrodynamics. (3 hours lecture per week.)

441. Analytical Mechanics (3) S

Prerequisites: 1 year college physics, calculus, or permission of the instructor. 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) (Planned for 1964-65)

Prerequisites: 1 year college physics, calculus or permission of instructor. 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) F

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: 1 year college physics, calculus, or permission of the instructor. 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) (Planned for 1964-65)

Prerequisite: 1 year college physics, one course in atomic or nuclear physics, calculus, 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) (Planned for 1964-65)

Prerequisites: 1 year college physics, one course in analytical mechanics, one course in electricity and magnetism, differential equations. An introduction to the concepts and theory of quantum physics. (3 hours lecture per week.)

471. Electronic Circuit Theory (3) F

Prerequisites: 1 year college physics, calculus or permission of the instructor. 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.)

481. Advanced Physics Laboratory (2) F

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.)

482. Advanced Physics Laboratory (2) S

Prerequisites: Physics 381, 382, and 481 with a grade of C or better 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 with a grade of C or better. 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.)

MATHEMATICS EDUCATION**432. Teaching Mathematics in the Elementary School (2) F, S**

Objectives, content, materials, pupil experiences, methods of instruction, and evaluation in arithmetic. The nature and scope of arithmetic in the elementary school. Historical development of notation and numeration. (2 hours lecture per week.)

442. Teaching Mathematics in the Secondary School (2 or 3) S

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 Education listing for professional prerequisites. (2 hours lecture per week.)

SCIENCE EDUCATION**432. Teaching Science in the Elementary School (2) F**

A series of lecture-discussion-demonstration periods will begin the course. These meetings will be supplemented by reading assignments, films, and exhibits appropriate to the subject under consideration. Students will be given ample opportunity to develop materials and techniques for science teaching. After a foundation in philosophy, objectives, methods, content, materials, and evaluation techniques appropriate for elementary science has been established, the students will develop and present short teaching units before the class. These presentations will follow a scope and sequence pattern similar to that developed in the state-adopted textbooks. (One 2½ hour meeting per week plus 1 hour laboratory period per week by arrangement.)

442. Teaching Science in the Secondary School (2 or 3) F, S

Various areas of investigation have been selected to offer the student a maximum of value in organizing his own course in the secondary science field. These areas of concentration include: an introduction into the philosophical, psychological, social, and historical backgrounds of science education; an investigation of the objectives, methods, and techniques of science teaching; practice in formulating ideas and information into a teaching plan; experience in using the equipment available in the science class, and conducting short laboratory exercises before the group. See Education listing for professional prerequisites. (One 3½ hour meeting per week plus 1 hour laboratory period per week by arrangement.)

435. Senior Report (1) F, 5
 Prerequisite: Physics 181, 182, and 481 with a grade of C or better on course department chairman. Selected experiments in classical and modern physics. (1 hour lecture, 6 hours laboratory per week.)

MATHEMATICS EDUCATION

442. Teaching Mathematics in the Elementary School (1) F, 5
 Prerequisite: Graduate work in mathematics and science. This course is designed to provide the student with a knowledge of the nature and scope of mathematics in the elementary school. (1 hour lecture, 1 hour laboratory per week.)

443. Teaching Mathematics in the Secondary School (1) F, 5
 Prerequisite: Graduate work in mathematics and science. This course is designed to provide the student with a knowledge of the nature and scope of mathematics in the secondary school. (1 hour lecture, 1 hour laboratory per week.)

SCIENCE EDUCATION

442. Teaching Science in the Elementary School (1) F
 A series of lecture-discussion-demonstration periods will be held in the course. These meetings will be supplemented by reading assignments, films, and exhibits appropriate to the subject under consideration. Students will be given ample opportunity to develop materials and techniques for science teaching. After a foundation in philosophy, objectives, methods, content, materials, and evaluation techniques appropriate for elementary science has been established, the students will develop and present short teaching units before the class. These presentations will follow a scope and sequence pattern similar to that developed in the state-approved textbooks. (One 1.5 hour meeting per week plus 1 hour laboratory period per week.)

443. Teaching Science in the Secondary School (1) F, 5
 Various areas of investigation have been selected to offer the student a maximum of value in organizing his own course in the secondary science field. These areas of investigation include: an introduction into the philosophical, psychological, social, and historical backgrounds of science education; an investigation of the objectives, methods, and techniques of science teaching; a review in formulating these and information into a teaching plan; experience in using the equipment available in the science class; and conducting short laboratory exercises before the group. (One 1.5 hour meeting per week plus 1 hour laboratory period per week.)

444. Advanced Physics Laboratory (1) F, 5

Prerequisite or corequisite: 1 course in modern or modern physics. Selected experiments in atomic and nuclear physics. (1 hour lecture and 6 hours laboratory per week.)

445. Advanced Physics Laboratory (1) F, 5

Prerequisite: Physics 181, 182, and 481 with a grade of C or better on course department chairman. Selected experiments in classical and modern physics. (1 hour lecture, 6 hours laboratory per week.)

446. Senior Report (1) F, 5

Prerequisite: Consent of department chairman. Selection and design for individual project, oral and written reports. (1 hour lecture-recitation per week.)

DIVISION OF SOCIAL SCIENCES

Professors: G. T. Brown (Chairman), F. J. Davis, Hyink,* Langsdorf,* Mason
Associate Professors: Earick, Povlovich, Toy,* Unterberger
Assistant Professors: Ashley, Beck, Cook, de Graaf, Reith, Sailor, J. R. Smith
Instructor: Kerschner
 (1962-1963 Faculty)

The Division of Social Sciences offers courses in the fields of Geography, History, Political Science, and Sociology, and accepts certain courses in Economics toward the divisional major. In each field, classes are provided for students who are preparing for graduate study and professional work. The offerings of this division are designed to provide a better understanding of the present world, of the developments which have shaped it, and of the significant contemporary problems. All majors who are candidates for teaching credentials are required to take some course work in the subjects they will most likely need as teachers. In order to ensure a sufficiently broad background, some course work is required in the culture, geography, and history of Africa, Latin America, the Middle East, and Asia (Social Science 330A-B), and in the recent history of the United States (History 476.)

The following majors and minor are offered by the Division:

- Major in Social Sciences
- Major in Social Sciences with a General Elementary Credential
- Major in Social Sciences with a General Secondary Credential
- Minor in Social Sciences with a General Secondary Credential
- Major in Geography
- Major in History
- Major in Political Science
- Major in Sociology

MAJOR IN SOCIAL SCIENCES

A student majoring in Social Sciences is permitted to select, in consultation with his major adviser, either of the options set forth below. The fields in which he may concentrate are Economics, Geography, History, Political Science, and Sociology. The major adviser must approve each course as an appropriate part of the student's program before it can be counted toward the major.

No units counted toward the General Education requirements may be counted toward the major. Proficiency in at least one foreign language is strongly recommended for all degree candidates in this division. Minimum requirements for a major are:

	<i>Units</i>
Option I: Two Fields	
First field (including 12 upper division units)	15
Second field (including 9 upper division units)	15
Additional work chosen from the two fields (including 3 upper division units)	6
Total	36

* College Administrative Officers.

	<i>Units</i>
Option II: Three Fields	
First field (including 9 upper division units)	15
Second field (including 6 upper division units)	9
Third field (including 6 upper division units)	9
Additional work chosen from any of the three fields (must be upper division work)	3
Total	36

MAJOR IN SOCIAL SCIENCES WITH A GENERAL ELEMENTARY CREDENTIAL

This major consists of a minimum of 24 units selected in consultation with the major adviser. At least 12 of the units must be in upper division courses. These units are in addition to the General Education requirements.

Economics:

200. Principles of Economics (or equivalent) (5 units)

Geography:

- *111. General Physical Geography or 131 World Regional Geography
351. Geography of California

History:

381. Westward Movement
383. History of California (or lower division equivalent)
429. Europe Since 1914
*476. United States Since 1933

Political Science:

- *210. American Government
311. State and Local Government
331. Governments and Politics of Major Powers
351. International Relations

Sociology:

- *201. Introduction to Sociology
202. Social Problems
431. Minority Group Relations
451. Sociology of the Family

Social Sciences:

- *330A. Contemporary Civilizations and U.S. Foreign Policy
(Africa, Middle East, and Asia)
*330B. Contemporary Civilizations and U.S. Foreign Policy
(Europe and Latin America)

MAJOR IN SOCIAL SCIENCES WITH A GENERAL SECONDARY CREDENTIAL

This major consists of a minimum of 36 units selected from the following fields: Economics, Geography, History, Political Science, and Sociology. At least 24 of the units must be in upper division courses. The major adviser must approve each course as an appropriate part of the student's program before it can be counted toward the major.

Lower Division

The nine units in social sciences required for graduation may *not* be counted toward the major. Other courses in anthropology, economics, geography, history, political science and government, and sociology taken in the lower division *may* be credited toward the major upon the approval of the major adviser.

* Required.

Upper Division

(24 units minimum)

The following courses or their equivalent are required:

Hist. 476. United States Since 1933

Soc. Sci. 330A-B. Contemporary Civilizations and United States Foreign Policy
(Africa, Middle East, Asia, Europe, Latin America)Some course work must be taken in at least *four* of the following fields: (All courses are 3 units except Econ. 200)**Economics:**

100. American Economic History

200. Principles of Economics (or equivalent) (5 units)

322. European Economic History

Geography:

111. General Physical Geography

131. World Regional Geography

262. Maps and Map Interpretation

351. Geography of California

History:

415. Ancient Greece

417. Ancient Rome

423A-B. Middle Ages

428. 19th Century Europe

429. Europe Since 1914

472. United States from Colony to Nation

474. The Growth of Modern United States

475. United States from 1900 to 1932

Political Science:

210. American Government

311. State and Local Government

331. Governments and Politics of Major Powers

351. International Relations

412. Political Parties and Pressure Groups

452. American Diplomacy

461. The United Nations and Other Public International Organizations

Sociology:

201. Introduction to Sociology

202. Social Problems

371. Urban Sociology

431. Minority Group Relations

Total units 36**MINOR IN SOCIAL SCIENCES WITH GENERAL
SECONDARY CREDENTIAL**

This minor is composed of a minimum of 20 units. At least 8 of these must be in the upper division to be selected from the following in consultation with the adviser. These units are in addition to the 9 units in Social Sciences required in general education. Work offered for this minor should be taken in three of the following fields, but a minimum of 12 units must be taken in one field:

Economics

Geography

History

Political Science

Sociology

NOTE: Courses listed as "Social Sciences" may be applied, with consent of the adviser, to any field listed above.

MAJOR IN GEOGRAPHY

The major in Geography is designed to contribute to a broad, liberal education and to fulfill the requirements of sound, professional preparation in geography at the undergraduate level. This basic program emphasizes (1) the relationship of man's complex cultural patterns to the earth's physical foundations, and (2) areal differentiation. It also provides students with a practical base for intensive work in one of the various fields of geography at the graduate level. Depending on individual interest, students may plan the major program to emphasize either cultural or physical geography.

Unit Requirements:

The major in Geography calls for 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. Unit requirements are as follows:

Geography Courses:

As many as 12 units are acceptable from lower division offerings. Upper division courses must be selected from offerings in both systematic and regional geography. The following courses are required of all majors: Geography 111, 131, 262, 323.

Minimum of _____	Units 36
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Related Courses:

Courses at upper and lower division levels in such fields as anthropology, astronomy, botany, chemistry, economics, geology, history, physics, political science, sociology, and statistics.

Minimum of _____	12
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Total _____	48
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Students intending to take graduate work in geography should acquire a reading knowledge of at least one modern foreign language.

GEOGRAPHY**111. General Physical Geography (3) F, S (Formerly 311)**

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 interrelations. Meets General Education Physical Science requirement.

131. World Regional Geography (3) F, S (Formerly Geography 331)

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.

203. Economic Geography (3) F, S (Formerly Geography 333)

Prerequisite: Geography 111 or 131 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.

262. Maps and Map Interpretation (3) F, S (Formerly Geography 362)

The planning, design, evaluation, and use of maps and graphic aids for research and teaching, with emphasis on the effectiveness of cartographic representation.

312. Geomorphology (3) (Formerly Geography 412) (Planned for 1964-65)

Prerequisite: Geography 111. A study of the development of landforms 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 (Formerly Geography 413)

Prerequisite: Geography 111. A study of the basic climatological processes, climatic types and the importance of climate in the natural and cultural landscape.

351. Geography of California (3) F, S

Analysis of the Geographic regions of California—their environmental diversity, settlement patterns, economic development, and current problems.

353. Cartography and Graphics (2) S

Prerequisite: Geography 262. Construction of maps, charts and graphs as geographic tools.

432. Geography of North America (3) F, S

Prerequisite: Geography 111 or 131 or consent of the instructor. A regional study of the United States and Canada emphasizing interrelated physical and cultural features and conditions that give geographic personality, both to the individual regions as well as to the individual countries.

433. Geography of Europe (3) F, S

Prerequisite: Geography 111 or 131 or consent of the instructor. A regional study of the countries of Europe, exclusive of the Soviet Union, emphasizing interrelated physical and cultural features and conditions, with special attention given to important economic, social and political conditions and problems.

434. Geography of Latin America (3) S

Prerequisite: Geography 111 or 131 or consent of the instructor. A regional study of the Middle and South American countries emphasizing interrelated physical and cultural features and conditions, and special hemispheric relationships involving these countries and the United States and Canada.

435. Geography of Asia (3) F

Prerequisite: Geography 111 or 131 or consent of the instructor. A regional study of the Asiatic countries, exclusive of the Soviet Union, surveying interrelated physical and cultural features and conditions with special emphasis on the growing importance, in economic, social, and political terms, of such countries as China, Japan, and India.

436. Geography of Africa (3) F

Prerequisite: Geography 111 or 131 or consent of the instructor. A regional study of the countries and colonies of Africa and the Middle East surveying interrelated physical and cultural conditions with special emphasis on the rapid development of political, social, and economic conditions and problems.

438. Geography of the Soviet Union (3) S

Prerequisite: Geography 111 or 131 or consent of the instructor. A regional study of the Soviet Union emphasizing the resource base and related occupancy patterns.

471. Urban Geography (3) F

Prerequisite: Geography 111 or 131. 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) S

Prerequisites: nine units of regional geography. The political units as an area and element of geographic study with special emphasis on the influence of related geographic conditions.

MAJOR IN HISTORY

The undergraduate major in History is designed to provide the student with 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 48 units of which 36 must be in the upper division. These units are in addition to those meeting the requirements in General Education. Students are encouraged to include in the lower division some courses in fields such as anthropology, economics, geography, literature, philosophy, political science and sociology. All potential majors should have a full year survey of United States history in the lower division usually taken as part of the General Education requirements. As many as 6 units of World Civilization and 6 units of lower division History courses may be substituted, with the approval of the adviser, for the appropriate courses listed below.

	Units
Twelve (12) units selected from: History 412, 415, 417, 423A, 423B, 425, 426, 428	12
History 429	3
Six (6) units selected from: Social Sciences 330A, 330B; History 350A, 350B, 461, 466	6
Six (6) units selected from: History 471, 472, 473, 474, 475	6
History 476	3
History 399 (to be taken in first semester of junior year)	3
History 490 (to be taken in last semester of senior year)	3
Upper division electives approved by adviser	6
Total History units	42
A related field of 6 upper division units approved by the adviser	6
Minimum total for the major	48

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

HISTORY

110A. World Civilizations to the 17th Century (3) F

The story of man from the earliest times until 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. Fulfills the general education requirement in U.S. history.

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) S

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 170AB A survey of the expansion of the United States population and national sovereignty from the Atlantic seaboard to the Pacific, 1750 to 1900, including other areas of United States history and geography which are related to the frontiers.

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. Historical Method (3) F

An introduction to historical method and bibliography, designed especially to equip the history major for historical research and the proper handling of historical materials. Required of all history majors. Recommended for junior year.

400. Independent Study and Research (1-3) F, S

Open to advanced students in history with the consent of the department chairman. May be repeated for credit.

412. Ancient Near East (3) S

Prerequisite: History 110A. A study of the civilizations of ancient Egypt, Mesopotamia, and the lands neighboring them. This course covers the prehistoric cultures, the growth of civilizations, and the competition and mutual influences among them to the time of Alexander; considerable attention is given to the background of Judaeo-Christian ideas and to the indebtedness of later peoples to these early societies.

415. Ancient Greece (3) F

Prerequisite: History 110A. A study of the civilization of ancient Greece. This course covers the prehistoric Aegean cultures, the classical city-states, and the Hellenistic Age; considerable attention is devoted to the literary and philosophic contributions to our modern civilization.

417. Ancient Rome (3) S

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.

425. Renaissance and Reformation, 1400-1648 (3) F

History of Europe from the end of the Middle Ages through the classical revival, the Protestant revolt, and the Thirty Years' War to the Peace of Westphalia, 1648.

426. Rise of Modern Europe, 1648-1815 (3) F

Prerequisite: History 110B. European diplomatic history and the balance of power from 1648 to 1815. Attention is given to the social and philosophical developments of the period.

428. 19th Century Europe (3) S

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 intellectual trends of 20th century Europe.

434B. Russia to the 1917 Revolution (3) F

Prerequisite: History 110B. An analysis of historical developments from the establishment of the Russian state at Kiev to the 1917 Revolution. Emphasis is placed upon the 18th and 19th centuries, the expansion of the empire, and the unique social and political currents which preceded the Soviet seizure of power.

434C. Russia Since 1917 (3) S

Prerequisite: History 110B. An historical analysis of the Bolshevik Revolution and subsequent consolidation of power under the Communist regime. Chief emphasis is placed upon Soviet foreign policy and fundamental social, political, and cultural institutions and policies based upon Marxist-Leninist-Stalinist ideology.

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.

466. Middle East (3) S

Prerequisite: History 110A-B. Introduction to the origins and development of the countries of the Middle East, including the impact of Islamic civilization. Special attention given to the last two centuries.

471. American Colonial Civilization (3) F

Prerequisite: History 170A or consent of the instructor. 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) S

Prerequisite: History 170A or consent of the instructor. The growth of an independent government, economy, and culture from 1763, and leading national issues and developments through the Jacksonian period.

473. Sectionalism and Civil War (3) (Planned for 1964-65)

Prerequisite: History 170 A or consent of the instructor. The slavery issue and the rise of sectional differences and the Civil War.

474. The Growth of Modern United States (3) S

Prerequisite: History 170B or consent of the instructor. The growth of the national economy, political repercussions and 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) F

Prerequisites: History 170B or equivalent. A study of the political, economic, social, diplomatic, and intellectual trends and problems from 1900 to the election of Roosevelt. Will stress the relationship between an industrial economy and the government and major social and political movements.

476. United States Since 1933 (3) F, S

Prerequisites: 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. Required of all History majors and all Social Science majors working for teaching credentials.

485A. American Foreign Policy to 1900 (3) F

Prerequisite: History 170A-B. A survey of the relations of the United States with foreign nations from the American Revolution to 1900.

485B. American Foreign Policy from 1900 (3) S

Prerequisite: History 170A-B. A survey of the relations of the United States from 1900 to the present.

490. History and Historians (3) S

Prerequisite: Open only to history majors in senior standing or by permission of the department. A study of the writings, personalities, and philosophies of representative historians from Herodotus to the present. Includes the intellectual processes by which history is written, the results of these processes, and the sources and development of history.

501. Seminar in History (3) F

Prerequisite: Consent of the instructor. Studies in United States and modern European history.

502. Readings in History (3) S

Prerequisite: Consent of the instructor. Directed study in significant historical areas.

MAJOR IN POLITICAL SCIENCE

The major is composed of a minimum of 48 units of which 36 must be in the upper division; units are in addition to those meeting the requirements in General Education. Prospective majors are encouraged to take lower division courses in Economics, and/or Geography, History and Sociology.

Concentrations are offered in general Political Science, International Affairs, and Public Administration. All majors take the Political Science core and selected courses in their area of major concentration. The core provides a common background and introduces the student to various aspects of Political Science.

POLITICAL SCIENCE CORE

Twelve units selected from:

Political Science: 200, 210, 311, 321, 331, 341A-B, 351, 412, 415.

GENERAL POLITICAL SCIENCE EMPHASIS

The general political science major prepares the student for graduate work in Political Science, for government service, or for leadership in civic activities. It is also an excellent major for pre-law students. Students particularly interested in law should take four years of English, Grammar and Composition, or and, preferably, English Constitutional History. Some law schools recommend Accounting. Law school catalogs should be consulted for other requirements or suggestions.

Twelve units selected from:

Political Science: 341A-B, 412, 413, 414, 415, 423, 440, 442.

Six units selected from:

Political Science: 432, 433, 434, 435, 453.

Six units selected from:

Political Science: 351, 452, 453, 454, 460, 461.

Twelve lower or upper division units, selected with the approval of the adviser, in Economics, Geography, History, Philosophy, Psychology, and Sociology.

	Units
Core program	12
Political Science	24
Electives	12
	<hr/> 48

INTERNATIONAL AFFAIRS EMPHASIS

The political science major with a concentration in international affairs provides the broad background and education necessary for advanced work in international affairs or for government service. Students particularly interested in the Foreign Service are encouraged to take their elective units in American culture, geography, government and history. They are strongly urged to become *proficient in one* foreign language.

Twelve units selected from:

Political Science: 351, 452, 453, 454, 460, 461.

Six units selected from:

Political Science: 432, 433, 434, 435, 453.

Nine units selected from:

History: 350B, 428, 429, 434C, 461, 475, 476, 485B.

Three units selected from:

Geography: 433, 434, 435, 436, 438, 481.

Six lower or upper division units, selected with the approval of the adviser, in such cultural fields as American and foreign literature, art history or history of music.

	Units
Core program	12
Political Science	18
History and Geography	12
Electives	6
	<hr/> 48

PUBLIC ADMINISTRATION EMPHASIS

The political science major with a concentration in public administration provides training and education for government service.

Eighteen units selected from:

Political Science: 321, 322, 323, 412, 413, 415, 423, 424, 426, 429, 432, 442.

Six units selected from:

Business Administration and Economics: Economics 201, 451, Accounting 200.

Six units selected from:

Geography: 471

History: 475, 476

Sociology: 311, 341, 371.

Six upper or lower division units, selected with the approval of the adviser, in report writing and professional speaking.

	<i>Units</i>
Core program	12
Political Science	18
Business Administration and Economics, Accounting	6
History, Sociology, and Geography	6
Electives	6
	48

POLITICAL SCIENCE**200. Foundations of Political Science (3) F, S**

An introduction to the fundamentals of political science as a discipline; an examination of the basic ideas underlying modern forms of government. A study of institutions, behavior and processes of politics, with particular emphasis on American national government. A study of legal, political and institutional aspects of international affairs. This course meets the general education requirement for U.S. Constitution. It is required for majors.

210. American Government (3) F, S (Formerly 310)

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.

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.

321. Introduction to Public Administration (3) F

Prerequisites: Political Science 210 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.

322. Public Personnel Administration (3) S

Prerequisite: Political Science 321 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.

323. Government Finance Administration (3) F

Prerequisite: Political Science 321 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.

331. Governments and Politics of Major Powers (3) F

Prerequisite: Political Science 200, 210 or consent of the instructor. 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 social science 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.

341A. History of Political Thought to Machiavelli (3) F

Prerequisite: Political Science 200 or consent of the instructor. Political thought from Plato to Machiavelli; the development of the concepts of natural law, community, state, and obligation.

341B. History of Political Thought From Machiavelli (3) S

Prerequisite: Political Science 200 or consent of the instructor. Political thought from Machiavelli to present; the development of the concepts of power, function, rights, and will.

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.

400. Independent Study and Research (1-3) F, S

Open to advanced students in Political Science by permission of the chairman of the department. May be repeated for credit.

412. Political Parties and Pressure Groups (3) F (Formerly 420)

Prerequisite: Political Science 210. 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.

413. The Supreme Court and Constitutional Law (3) S

Prerequisite: Political Science 200 or 210. General principles of constitutional law, both federal and state; relations and respective powers of the national government and the states; limitations on both the federal and state governments; the rights of individuals.

414. The Legislative Process (3) S

Prerequisites: Political Science 210. 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 Politics (3) F

Prerequisite: Political Science 210. 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 value of polls and opinion studies.

423. Urban Problems and Administration (3) S

Prerequisite: Political Science 321 or consent of the instructor. Administrative organization as a framework for decision-making and communication; the role of political power in the making of public policy; the element of human behavior in supervision and management; the practices and techniques of municipal and county management; and the impact of metropolitan growth on the activities of local government.

424. City and Regional Planning (3) F

Prerequisite: Political Science 321 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) S

Prerequisite: Political Science 321 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)

Prerequisite: Political Science 331 or consent of the instructor. Examination of the dynamics of the British system; class structure; political parties; public opinion and pressure groups; the bureaucracy.

433. Government and Politics of Soviet Russia (3)

Prerequisite: Political Science 331 or consent of the instructor. The principles of Marxism-Leninism underlying the Soviet government, as modified by Stalin and Khrushchev; constitutional provisions and political practices; the Communist party and mass organizations; elections and election campaigns; the press; education and religion; relation to the international Communist movement and the satellite 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)

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.

440. Recent Political Thought (3) (Planned for 1964-65)

Prerequisite: Political Science 341-A-B. A study of selected modern political thinkers.

442. American Political Thought (3) (Planned for 1964-65)

Prerequisite: Political Science 200 or 210. 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.

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

Prerequisites: Political Science 200, 351 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.

500. Independent Study and Research (1-3) F, S

Open to graduate students only by permission of the chairman of the department. 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.

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.

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.

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 48 units, in addition to those taken for the General Education requirement, distributed as follows:

Required Courses in Sociology: 201 and 202, or their equivalents must be taken, and up to 6 additional units are acceptable from lower division offerings. The minimum of 24 upper division units in sociology must include 341, 480, 481, and 492.

Minimum units 36

Related Courses. Twelve units in such related fields as economics, geography, history, philosophy, political science, and psychology, to be approved by the major adviser.

Minimum units 12

Minimum total units 48

The following suggestions will enable the student to work toward his own career objectives in selecting courses for the major:

- (a) Courses suggested for those interested in immediate employment or graduate study in social welfare, corrections, and related careers (including the ministry): 311, 371, 401, 411, 431, 451, 473; Economics 200; Psychology 341, 342; Philosophy 331; Political Science 311, 321, 322, 423.
- (b) Courses suggested for careers in industry or government service, or for pre-law study: 361, 371, 411, 473; Economics 200, 201, 326, 401; Geography 471, 481; History 475, 476; Political Science 321, 322, 413, 414, 423, 424, 461; Psychology 391.
- (c) Courses suggested for preparation for graduate study in sociology and careers in teaching or research: 361, 371, 401, 436, 451, 473; Economics 200, 302, 303, 326; Geography 471; History 381, 429, 474, 475, 476; Philosophy 250, 331, 407; Political Science 331, 412, 415, 440, 442; Psychology 301, 312, 341, 431; work in statistics and a reading knowledge of at least one foreign language.

SOCIOLOGY**201. Introduction to Sociology (3) (Formerly 301) 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) (Formerly 302) F, S

Prerequisite: Sociology 201 or equivalent. 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.

311. Welfare Institutions (3) F

Prerequisite: Sociology 201 or equivalent, or consent of the Department. An introduction to the field of social work. Sociological analysis of the structure, functioning, and coordination of welfare agencies. Designed for students interested in professional social work and in such related professional areas as teaching, counseling, public administration, the ministry, law or medicine.

341. Social Interaction (3) F

Prerequisites: Sociology 201 or equivalent; 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*.

361. Population Problems (3) F

Prerequisite: Sociology 201 or equivalent. Population composition, growth, and movement. Social factors affecting birth rates, death rates, and migration. Emphasis on American population, but some attention is given to undeveloped areas and to world population growth.

371. Urban Sociology (3) S

Prerequisite: Sociology 201 or equivalent. The population and ecology, patterns of growth, institutions, characteristic social interaction, values, and problems of the urban community.

400. Independent Study (1-3) F, S

Prerequisites: At least 12 hours in 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 a paper.

401. Social Disorganization (3) S

Prerequisite: Sociology 201 or equivalent. Social and personal disorganization treated as a consequence of role conflict, competition, social conflict, and normlessness. The impact of social change on the person who becomes a problem to himself and to society.

411. Criminology (3) F

Prerequisite: Sociology 201 or equivalent. The extent, causes and control of crime and delinquency. Includes study of the criminal law, causal factors and theories, correctional institutions, probation and parole, and preventive efforts.

431. Minority Group Relations (3) S

Prerequisite: Sociology 201 or equivalent. 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 or equivalent. Social class structures and their functions. Different styles of life; determinants of class status; vertical mobility; change in class systems.

451. Sociology of the Family (3) F, S

Prerequisite: Sociology 201 or equivalent. 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.

473. Complex Organizations (3) S

Prerequisite: Sociology 201 or equivalent. Sociological analysis of formal organizations (industrial, governmental, welfare, military, medical, educational, correctional, etc.) as systems of social interaction. Includes such topics as blue-printed vs. informal organizational structure, authority, decision-making, role conflicts, communication, and morale.

480. Development of Social Thought (3) F

Prerequisite: Sociology 201 or equivalent. Social thought since early times; comparative study of the earlier writers on the nature of man and society and the leading sociologists of the Nineteenth Century.

481. Contemporary Sociological Theory (3) S

Prerequisite: Sociology 201 and consent of the Department. The main schools of contemporary sociological thought, both European and American, with emphasis on systematic theory, methodology of theorists, cultural change, and social institutions. Ward, Sumner, Durkheim, Pareto, Weber, Sorokin, Parsons, and others are stressed.

492. Social Research Methods (3) F

Prerequisite: Sociology 201 or consent, and knowledge of descriptive statistics is desirable. An introduction to the problems, logic, and procedures of social research. Emphasis is on research designing, and the gathering of data, especially by questionnaire and interview.

SOCIAL SCIENCES**330A. Contemporary Civilizations and U.S. Foreign Policy (3) F, S**

A survey of the Middle East, Asia, and Africa, concentrating on the development of their present civilizations, political and economic problems, their place in world affairs, and policies followed by the United States in each of these areas.

330B. Contemporary Civilizations and U.S. Foreign Policy (3) F, S

A survey of present government and civilizations in Europe and Latin America, summarizing the background of present developments and problems and studying policies followed by the United States in each of these areas.

SOCIAL SCIENCES EDUCATION**432. Teaching Social Sciences in the Elementary School (2) F, S**

Prerequisites: Educ. 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 and Psychology for details.

GRADUATE DEGREE SUPPLEMENT

ORANGE STATE COLLEGE

Fullerton, California

ANNOUNCEMENT OF MASTER'S DEGREE PROGRAM

Fall 1963

Orange State College has been authorized to grant the following graduate degrees:

Master of Arts in English
Master of Arts in History
Master of Arts in Social Sciences
Master of Business Administration

ADMISSION OF GRADUATE STUDENTS

Admission with Graduate Standing: Unclassified. (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 equivalent academic preparation as determined by the College. (b) Admission to the College with graduate standing does not constitute admission to graduate degree curricula.

Admission to Graduate Degree Curricula: Classified. A student who has been admitted to unclassified standing at the College may, upon application, be admitted to an authorized graduate degree curriculum of the College as a classified graduate student if he satisfactorily meets the scholastic, professional, personal, and other standards for graduate study, including qualifying examinations, as required by the Graduate Studies Committee and the instructional divisions and departments which offer the particular master's degree.

GENERAL REQUIREMENTS FOR THE DEGREE

To be eligible for the master's degree, the candidate shall have completed the following requirements:

A. Advancement to Candidacy. For advancement to candidacy for the master's degree, the applicant shall have met the following minimum requirements:

- (1) The completion of requirements for admission to classified graduate standing.
- (2) Such scholastic, professional, and personal standards, the passing of examinations, and other qualifications as the College may prescribe.

B. Requirements for the Degree.

- (1) Thirty semester units of approved graduate work completed within seven years of the date when all the requirements for 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 30 semester units:
 - (a) Not less than 24 shall be completed in residence.
 - (b) Not less than 12 shall be in courses organized primarily for graduate students.
 - (c) Not more than 6 shall be in extension or transfer credit.
 - (d) Not more than 6 shall be allowed for a thesis, but the requirement of a thesis is optional with the College.

- (2) 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.
- (3) The completion of a satisfactory pattern of study in the approved field of concentration.

For further information concerning admission to graduate work, requirements for the master's degree, and procedure to follow in obtaining the master's degree, please write or contact the Office of the Coordinator of Graduate Studies, Orange State College, 800 North State College Boulevard, Fullerton, California.

MASTER OF ARTS IN ENGLISH

Graduate students who intend to work toward the degree of Master of Arts in English should, in consultation and agreement with their graduate adviser, decide upon a plan of study, including a minimum of 15 units in regular graduate (500) courses, a maximum of 9 units in specialized senior level courses to permit rounding out of earlier work in English, both in breadth and depth, and 6 units outside the English Department but related to their particular interests and purposes.

It is recommended that the graduate student's plan of study include:

English 590, Graduate Seminar: Problems in Language (3 units), and

English 592, Graduate Seminar: Problems in Shakespeare (3 units).

Additional 500 level courses available at this time are:

English 595, Graduate Seminar: Melville (3 units);

English 596, Graduate Seminar: Twain (3 units);

English 598, Graduate Seminar: Joyce (3 units); and

English 599, Graduate Seminar: Comparative Literature (3 units).

Graduate students also have available—under English 580, Independent Study—the option of up to 6 units of project work, usually divided between reading and writing on a carefully defined subject.

Eligible 400 level courses offered at this time are:

English 454, History of the English Language (3 units);

English 462, Modern British and American Novels (3 units);

English 464, Modern British and American Drama (3 units);

English 466, Modern British and American Poetry (3 units);

English 491, Senior Seminar: Studies in Chaucer (3 units);

English 492, Senior Seminar: Studies in the American Renaissance (3 units);

English 495, Senior Seminar: Studies in New England Transcendentalism (3 units);

English 496, Senior Seminar: Studies in the American Novel (3 units);

English 498, Senior Seminar: Literary Criticism (3 units); and

Comparative Literature 425, Literary Masterpieces of the Orient (3 units).

The 6 units to be taken outside the English Department may be in comparative literature, foreign languages and literatures, history, philosophy, psychology, or other recommended academic areas.

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, Content and Method of History (3 units); and

History 591, Thesis (3 to 6 units).

Other course requirements are:

History 490, History and Historians (3 units); and

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

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. Currently the College is offering five graduate seminars in History and over twenty upper division History courses from which a degree program can be developed. An oral examination on the thesis and course work offered for the degree will be given.

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) approved units which are to be offered for the degree are to be arranged in one of the following patterns:

Pattern A (two fields)	First field	_____	18	15	units
	Second field	_____	12	15	units
			30 or 30		units
Pattern B (three fields)	First field	_____	15	12	12 units
	Second field	_____	9	12	9 units
	Third field	_____	6	6	9 units
			30 or 30 or 30		units

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. 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.

A student with an undergraduate major in a field other than Social Sciences may demonstrate his ability to do satisfactory work in this area by taking the number of units of upper division Social Sciences courses equal to the difference between twenty-four (24) units and the number he has taken exclusive of general education. These courses must be approved by the graduate adviser prior to enrollment and passed with a grade of B or better. A student may petition the Division of Social Sciences for permission to apply up to six (6) of these units toward the Master's Degree.

MASTER OF BUSINESS ADMINISTRATION

Graduates of accredited Colleges and Universities may declare an interest in this program by (1) applying for admission at the Admissions Office, and (2) obtaining an interview with a Business Administration or Economics staff member relative to admission and the requirements necessary to gain the degree.

The program requires 24 credit hours in Mathematics and in Business Administration and Economics as prerequisites to admission to candidacy for the MBA, and 30 credit hours in graduate course study of which at least 15 credit hours must be in the 500 course level.

Required courses of this program include:

Accounting

405 Industrial Accounting

501 Administrative Accounting

Economics

405 Comparative Economic System

510 Competition, Monopoly, and Public Policy

Management

544 Organizational Behavior, Theory, and Administration

Marketing

459 Corporate Financial Management

Quantitative Methods

560 Operations Research, or

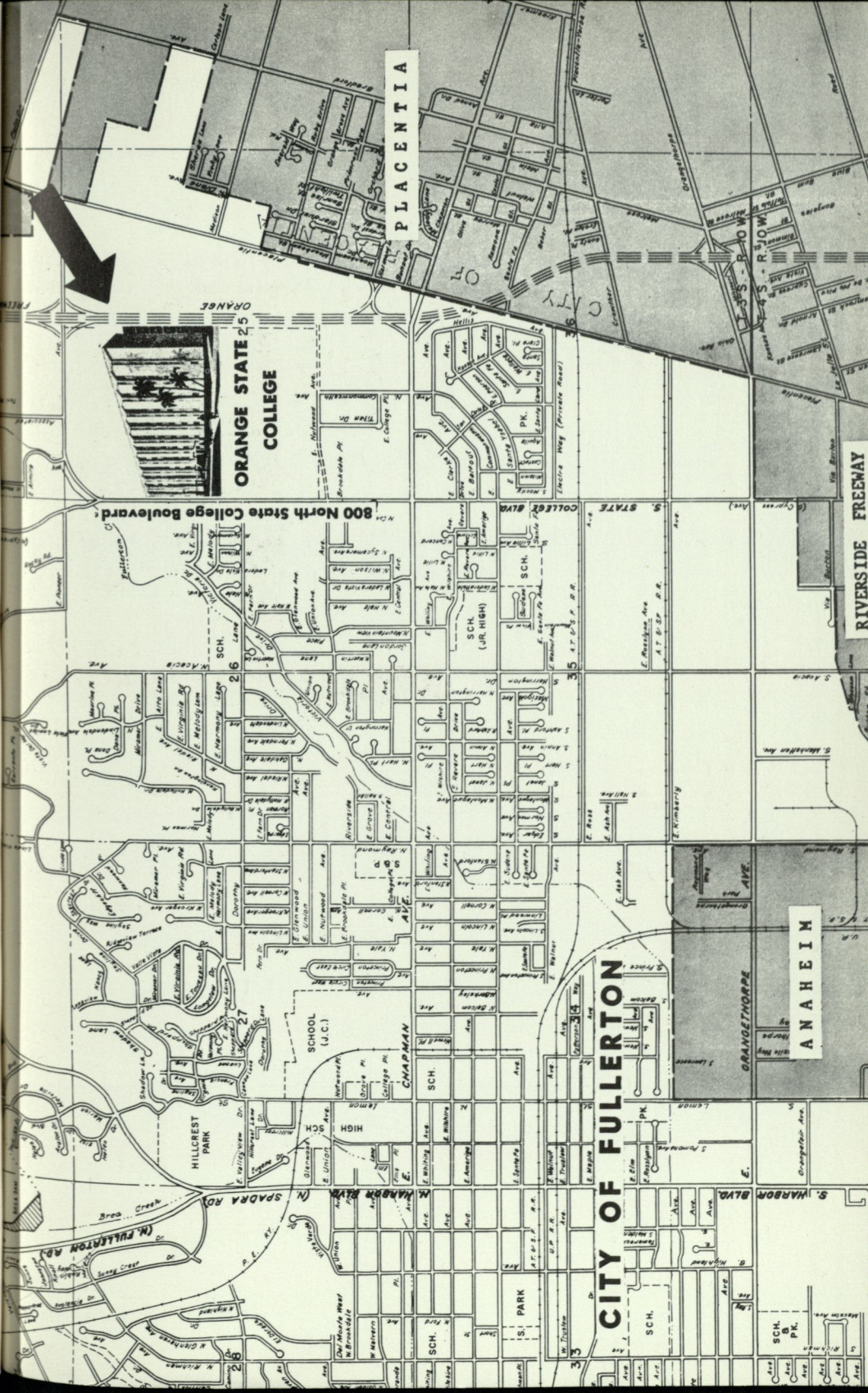
463 Statistical Decision Theory

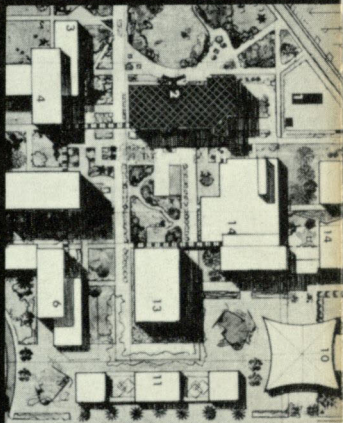
Electives of 6 credit hours may be taken in the areas of Accounting, Finance, Management, Marketing and Quantitative Methods to complete the 30 credit hours required.

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Fullerton, California

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