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66

CATALOG

Stanislaus State College

Turlock, California

**THE CALIFORNIA
STATE COLLEGES**

PLACE
STAMP
HERE

Admissions and Records Office
Stanislaus State College
Turlock, California 95380

TO: Admissions and Records Office
Stanislaus State College

Date: _____

Please send me an Application for Admission form and Admission Instruction
I plan to seek admission for the Fall/Winter/Spring (circle one) quarter
196_____.

I have/have not (circle one) previously attended Stanislaus State College

Full Name: Miss _____
Mrs. _____
Mr. Last First Middle

Address: _____

STANISLAUS STATE COLLEGE
Turlock, California 95380
OFFICE OF STUDENT AFFAIRS

STUDENT HOUSING ANNOUNCEMENT - JUNE, 1965

The developers of the proposed privately owned student residence halls have indicated to the College that their facilities will not be constructed for occupancy for Fall 1965, as originally scheduled. Since the College does not exercise any control over the start or completion of construction of private projects the delay at this time must be considered an indefinite postponement.

However, every effort is being made to secure adequate student housing in the College Community, to insure availability of satisfactory eating facilities on-campus, and to provide needed transportation. It is apparent from the response to a request for placing students in homes and apartments that student needs will be met. Each housing accommodation listed with the College will be inspected by a College official before it will be recommended to students.

All students interested in locating housing are encouraged to make their needs known to the Student Affairs Office as early as possible so that assistance may be extended. Interested students will be advised of ensuing developments.

STANISLAUS STATE COLLEGE

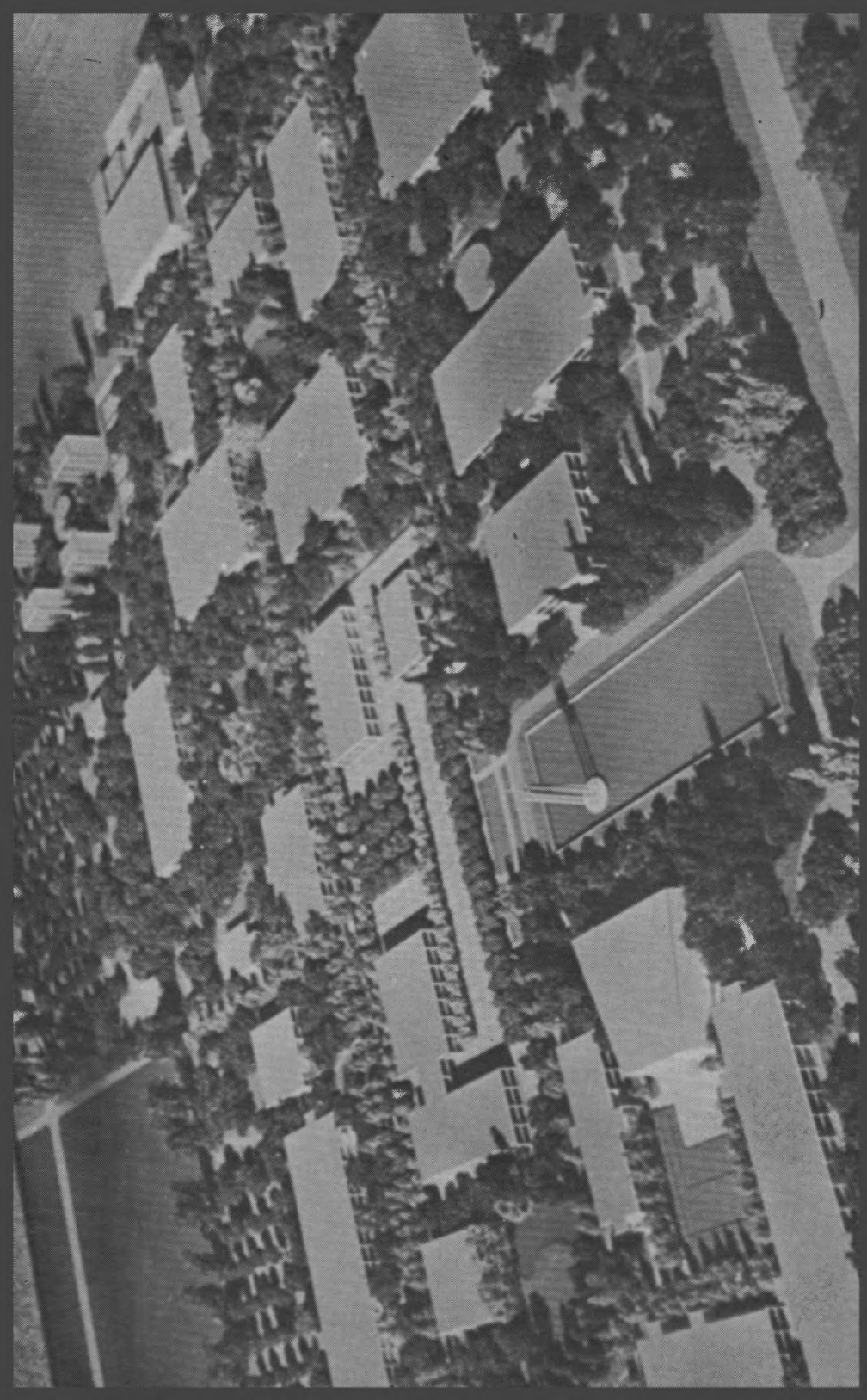
THE CALIFORNIA STATE COLLEGES

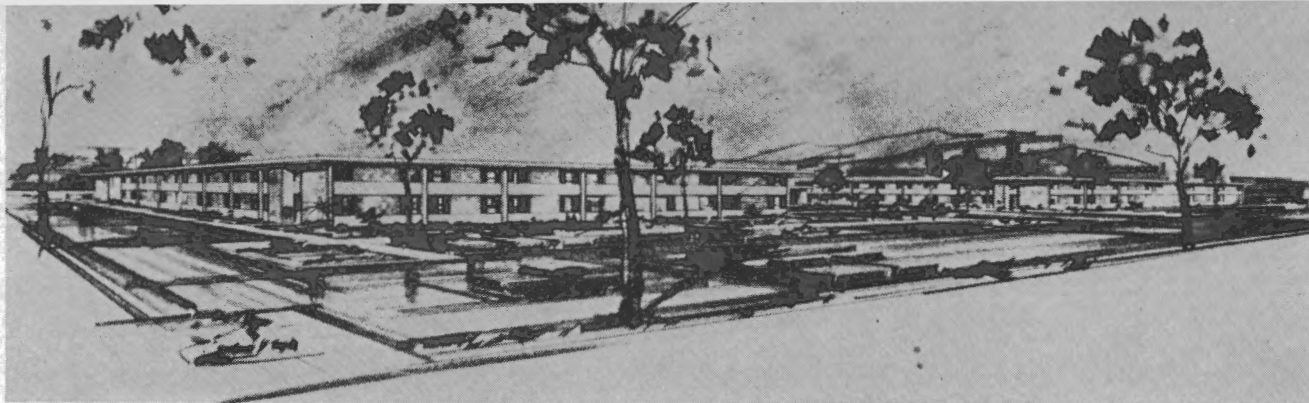
CATALOG

1965-1966

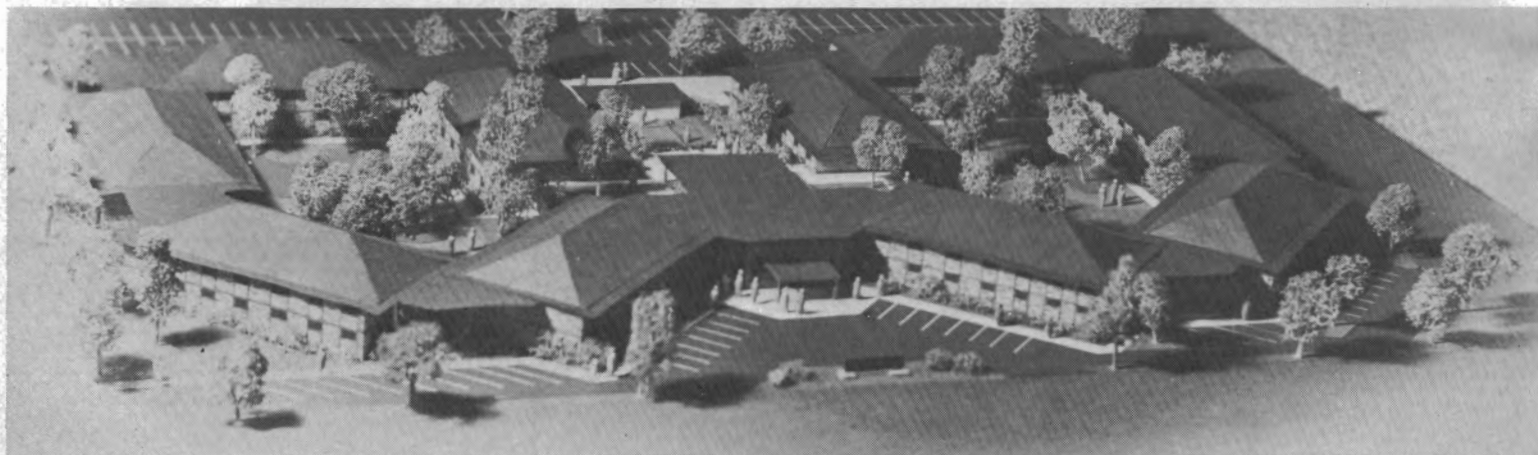


Turlock, California





Proposed student residence halls to be located in the immediate neighborhood of the College and scheduled for completion prior to fall 1965. These facilities are privately owned and operated. (See page 43.)



1965

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TABLE OF CONTENTS

	Page
Academic Calendar	7
Trustees of the California State Colleges	11
Office of the Chancellor	12
California State Colleges	13
Advisory Board of the College	15
Administration of the College	15
General Information	17
History of the College	17
Philosophy and Objectives of the College	17
Liberal Arts Base for Entering Freshman	18
Accreditation	19
Degree and Credential Programs	19
Quarter System	19
Library	20
Summer Session and Extension	21
International Programs	21
Admission to the College	22
Requirements	22
Admission Procedure	25
Evaluation and Acceptance of Transfer Credit	29
Academic Advising	30
Registration	31
Academic Standards	31
Policies and Procedures	33
Fees and Refunds	38
Student Affairs	40
Admission Counseling	41
Academic Advising	41
Scholarships and Loans	41
National Defense Student Loan Program	41
Veterans Assistance	42
Housing	43
Student Health	43
Student Activities	44
Student Conduct and Responsibility	44
Placement	44
Graduate Record Examinations	46
Alumni	46
The College Foundation	47

TABLE OF CONTENTS—Continued

	Page
General Requirements for Degrees	47
Requirements for the Bachelor of Arts Degree	48
Announcement of Courses	55
Course Numbering System	56
Art	57
Biological Sciences	62
Biology	64
Botany	65
Entomology	66
Zoology	66
Business Administration	68
Communication Arts and Sciences	74
Drama	77
Speech	77
Economics	80
Education	83
English	95
Foreign Languages	100
Spanish	100
French	102
History	105
Mathematics	110
Music	115
Philosophy	122
Physical Education and Health	123
Physical Sciences	124
Astronomy	126
Chemistry	126
Geology	126
Physical Science	126
Physics	126
Political Science	129
Psychology	131
Social Sciences	133
Sociology-Anthropology	136
Anthropology	136
Sociology	137
Faculty	139
Index	144

ACADEMIC CALENDAR

SUMMER SESSION 1965

- June 21-July 30..... Six week session
August 2-20..... Three week session

FALL QUARTER 1965

- February 15, Monday..... Period for accepting admission applications for fall quarter 1965 begins
- *August 15, Sunday..... Deadline for filing applications for admission or readmission, transcripts and supporting admissions documents for fall quarter 1965 (the College cannot guarantee complete admissions processing for students who complete the application procedure after this date)
- September 18-23, Saturday
through Thursday..... Student Orientation
- September 23-24, Thursday
through Friday..... Registration (refer to *Class Schedule*)
- September 24, Friday..... Last day to register without late registration fee
- September 27, Monday..... Instruction begins
- October 1, Friday..... Last day of late registration
- October 1, Friday..... First day to add or drop courses
- October 8, Friday..... Last day to add a course
- October 8, Friday..... Last day to apply for fall 1965 graduation
- October 11, Monday..... Last day to file application for partial refund of fees from dropping courses or withdrawing from the College
- October 20, Wednesday..... Last day to drop a course without a grade
- October 20, Wednesday..... Applications due for spring 1966 graduation
- November 1, Monday..... Scholarship report
- November 11, Thursday..... Legal holiday (Veterans Day)
- November 25-28, Thursday
through Sunday..... Thanksgiving holidays
- November 29-December 3;
December 6-10, Monday
through Friday..... Advising period for winter registration

* The application deadline for the fall quarter 1966 will be early in spring 1966 on a date to be announced.

Academic Calendar

December 3, Friday.....	Last day to drop a course
December 6-10	Reading period
December 10, Friday.....	Last day of classes for fall quarter
December 13-18, Monday through Saturday	Final examinations for fall quarter
December 18, Saturday.....	Fall quarter ends

WINTER QUARTER 1966

September 15, Wednesday	Period for accepting admission applications for winter quarter 1966 begins
November 15, Monday	Deadline for filing applications for admission or readmission, transcripts, and supporting admissions documents for winter quarter 1966 (the College cannot guarantee complete admissions processing for students who complete the application procedure after this date)
January 3-4, Monday through Tuesday.....	Registration (refer to <i>Class Schedule</i>)
January 4, Tuesday.....	Last day to register without late registration fee
January 5, Wednesday.....	Instruction begins
January 11, Tuesday	Last day of late registration
January 11, Tuesday.....	First day to add or drop courses
January 18, Tuesday.....	Last day to add a course
January 18, Tuesday.....	Last day to apply for winter 1966 graduation
January 18, Tuesday	Last day to file application for partial refund of fees from dropping courses or withdrawing from the College
January 28, Friday.....	Last day to drop a course without a grade
January 28, Friday.....	Applications due for summer session 1966 and fall 1966 graduation
February 8, Tuesday	Scholarship report
February 12, Saturday.....	Legal holiday (Lincoln's birthday)
February 22, Tuesday.....	Legal holiday (Washington's birthday)
February 28-March 4; March 7-11, Monday through Friday.....	Advising period for spring registration
March 4, Friday.....	Last day to drop a course
March 11, Friday.....	Last day of classes for winter quarter
March 14-19, Monday through Saturday.....	Final examinations for winter quarter
March 19, Saturday.....	Winter quarter ends

Academic Calendar

SPRING QUARTER 1966

December 15, Wednesday	.....	Period for accepting admission applications for spring quarter 1966 begins
February 15, Tuesday	.....	Deadline for filing applications for admission or readmission, transcripts and supporting admissions documents for spring quarter 1966 (the College cannot guarantee complete admissions processing for students who complete the application procedure after this date)
March 24-25, Thursday	.....	Registration (refer to <i>Class Schedule</i>)
through Friday	.....
March 25, Friday	.....	Last day to register without late registration fee
March 28, Monday	.....	Instruction begins
April 1, Friday	.....	Last day of late registration
April 1, Friday	.....	First day to add or drop courses
April 8, Friday	.....	Last day to add a course
April 8, Friday	.....	Last day to apply for spring 1966 and summer 1966 graduation
April 8, Friday	.....	Academic holiday (Good Friday)
April 11, Monday	.....	Last day to file application for partial refund of fees from dropping courses or withdrawing from the College
April 20, Wednesday	.....	Last day to drop a course without a grade
April 20, Wednesday	.....	Applications due for winter 1967 graduation
April 29, Friday	.....	Scholarship report
May 23-27; 31-June 3,	.....	Advising period for summer and fall registration
Monday through Friday	.....
May 27, Friday	.....	Last day to drop a course
May 30, Monday	.....	Legal holiday (Memorial Day)
June 3, Friday	.....	Last day of classes for spring quarter
June 6-10, Monday	.....	Final examinations for spring quarter
through Friday	.....
June 10, Friday	.....	Baccalaureate
June 11, Saturday	.....	Commencement
June 11, Saturday	.....	Spring quarter ends

Academic Calendar

SUMMER SESSION, 1966 (TENTATIVE)

June 21–July 30Six week session
August 2–20Three week session

OFFICE HOURS

Regular SessionMonday–Friday, 8 a.m. to 12; 1 to 5 p.m.
Summer SessionMonday–Friday, 7:30 a.m. to 12; 1 to 4:30 p.m.

LIBRARY HOURS

Regular SessionMonday–Thursday, 8 a.m. to 9 p.m.; Friday,
8 a.m. to 5 p.m.; Saturday, 9 a.m. to 1 p.m.

Summer Session

Six week session Monday–Thursday, 7:30 a.m. to 7 p.m.; Friday,
7:30 a.m. to 4:30 p.m.; Saturday, 9 a.m. to 1.
Three week session ... Monday–Friday, 7:30 a.m. to 4:30 p.m.

TRUSTEES
CALIFORNIA STATE COLLEGES

EX OFFICIO TRUSTEES

Edmund G. Brown, LL.B.	State Capitol, Sacramento
Governor of California and President of the Trustees	
Glenn M. Anderson, A.B.	State Capitol, Sacramento
Lieutenant Governor of California	
Jesse M. Unruh, B.A.	State Capitol, Sacramento
Speaker of the Assembly	
Max Rafferty, A.B., M.A., Ed.D.	721 Capitol Avenue, Sacramento
State Superintendent of Public Instruction	
Glenn S. Dumke, A.B., M.A., Ph.D., LL.D., L.H.D.	
	2930 W. Imperial Hwy., Inglewood
Chancellor of the California State Colleges	

APPOINTED TRUSTEES

Appointments are for a term of eight years expiring March 1 on dates in parentheses. Names are listed in order of accession to the Board.

Louis H. Heilbron, A.B., LL.B., LL.D. (1969)

14 Montgomery St., San Francisco 94104

Donald M. Hart, B.A. (1968)

2230 Pine St., Bakersfield 93302

Thomas L. Pitts (1966)

995 Market St., Rm. 810, San Francisco 94103

Charles Luckman, LL.D., A.F.D. (1966)

9220 Sunset Blvd., Los Angeles 90046

Paul Spencer, B.A. (1969)

P.O. Box 145, San Dimas 91773

Theodore Meriam, A.B. (1971)

P.O. Box 370, Chico 95927

Albert J. Ruffo, LL.B., B.S. in E.E. (1971)

1680 Hedding St., San Jose 95113

John E. Carr, B.A. (1965)

611 Lido Park Dr., Newport Beach 92660

Mrs. Philip Conley, B.A. (1972)

3729 Huntington Blvd., Fresno 93702

E. Guy Warren, B.A. (1965)

P.O. Box 59, Hayward 94541

Trustees California State Colleges

- Daniel H. Ridder, B.A. (1967)
604 Pine St., Long Beach 90801
- George D. Hart, A.B. (1967)
111 Sutter St., San Francisco 94104
- Gregson E. Bautzer, B.A., LL.B. (1968)
190 N. Canon Dr., Beverly Hills 90069
- Simon Ramo, B.S., Ph.D. (1972)
8433 Fallbrook Ave., Canoga Park 91304
- James F. Thacher, A.B., LL.B. (1970)
310 Sansome St., San Francisco 94104
- Victor H. Palmieri, B.A., LL.B. (1970)
Janss Corp., Kirkeby Center,
Wilshire at Westwood Blvd., Los Angeles 90024

OFFICERS OF THE TRUSTEES

- | | |
|--------------------------|---------------------------|
| Governor Edmund G. Brown | Albert J. Ruffo |
| President | Vice Chairman |
| Charles Luckman | Chancellor Glenn S. Dumke |
| Chairman | Secretary-Treasurer |

OFFICE OF THE CHANCELLOR

OF

THE CALIFORNIA STATE COLLEGES

2930 West Imperial Highway
 Inglewood, California 90303
 213 757-5161

- | | |
|---|--------------------|
| Chancellor | Glenn S. Dumke |
| Vice Chancellor, Academic Affairs..... | Raymond A. Rydell |
| Vice Chancellor, Business Affairs | John F. Richardson |
| Assistant Chancellor, Faculty and Staff Affairs | C. Mansel Keene |

THE CALIFORNIA STATE COLLEGES

- California State College at Fullerton
800 North State College Boulevard
Fullerton, California 92631
Dr. William B. Langsdorf, President
714 871-3300
- California State College at Hayward
25800 Hillary Street
Hayward, California 94542
Dr. Fred F. Harclerod, President
415 538-8000
- California State College at Long Beach
6101 East Seventh Street
Long Beach, California 90804
Dr. Carl W. McIntosh, President
213 433-0951
- California State College at Los Angeles
5151 State College Drive
Los Angeles, California 90032
Dr. Franklyn A. Johnson, President
213 225-1631
- California State College at Palos Verdes
27608 Silver Spur Road, Suite 200
Palos Verdes Peninsula, California
90274
Dr. Leo F. Cain, President
213 377-6837
- California State College at San
Bernardino
532 Mountain View Avenue
San Bernardino, California 92407
Dr. John M. Pfau, President
714 885-6891
- California State Polytechnic College
San Luis Obispo, California 93402
805 546-0111
Kellogg-Voorhis Campus
Pomona, California 91766
714 595-1241
Dr. Julian A. McPhee, President
- Chico State College
First and Normal Streets
Chico, California 95927
Dr. Glenn Kendall, President
916 343-4411
- Fresno State College
Shaw and Cedar Avenues
Fresno, California 93726
Dr. Frederic W. Ness, President
209 222-5161
- Humboldt State College
Arcata, California 95521
Dr. Cornelius H. Siemens, President
707 822-1771
- Sacramento State College
6000 J Street
Sacramento, California 95819
Dr. Guy A. West, President
916 452-3252
- San Diego State College
5402 College Avenue
San Diego, California 92115
Dr. Malcolm A. Love, President
714 286-5000
- San Fernando Valley State College
18111 Nordhoff Street
Northridge, California 91326
Dr. Ralph Prator, President
213 349-1200
- San Francisco State College
1600 Holloway Avenue
San Francisco, California 94132
Dr. Paul A. Dodd, President
415 584-2300
- San Jose State College
125 South Seventh Street
San Jose, California 95114
Dr. Robert D. Clark, President
408 294-6414
- Sonoma State College
265 College View Drive
Rohnert Park, California 94928
Dr. Ambrose R. Nichols, President
707 545-7220
- Stanislaus State College
800 Monte Vista
Turlock, California 95380
Dr. Alexander Capurso, President
209 634-9101

The California State Colleges

HISTORY

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

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

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

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

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

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

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

STANISLAUS STATE COLLEGE

ADVISORY BOARD

Stanley T. Wilson, Chairman	Turlock
Kennan H. Beard, Sr., Vice-Chairman	Modesto
John M. Burnett	Manteca
Ross A. Carkeet	Sonora
Louis G. Dunn	Mountain Ranch
Robert John Evans	Mariposa
Buddy T. Iwata	Livingston
William Logan	Patterson
Shawn Moosekian	Turlock
Frank Peluso	Los Banos
Carmen Perino	Stockton
Mrs. Donald M. Robinson	Merced

ADMINISTRATION

President	Alexander Capurso, Ph.D., Mus.D.
Assistant to the President	Don W. Driggs, Ph.D.
Secretary to the President	E. Lorraine Johnson, C.P.S.
Executive Dean	Gerard J. Crowley, Ed.M.
Administrative Assistant to the Executive Dean	S. LeRoy Wilson, B.A.

INSTRUCTION

Dean of Academic Affairs	C. R. Webb, Jr., Ph.D.
Associate Dean, Curriculum	Gene C. Wisler, Ed.D.
Associate Dean, Educational Services and Summer Session	William F. McClintock, Ph.D.
Chairman, Division of Business Administration	Thomas P. Barrett, M.A.
Coordinator, Division of Creative Arts	Gene C. Wisler, Ed.D.
Chairman, Division of Education	Charles R. Farrar, Ed.D.
Chairman, Division of Humanities	Lawrence D. Berkoben, Ph.D.
Chairman, Division of Science and Mathematics	Steve J. Grillos, Ph.D.
Chairman, Division of Social Sciences	David Bentheim Stenzel, Ph.D.
College Librarian	R. Dean Galloway, M.S.

Administration

STUDENT PERSONNEL SERVICES

Dean of Student Affairs	Joseph E. Bruggman, Ed.D.
Associate Dean, Admissions and Records ..	Edward J. Aubert, M.B.A.
Associate Dean, Counseling and Testing ..	Jerome J. Beamish, Ph.D.
Registrar	C. W. Quinley, Jr., A.B.
Counselor-Test Officer	Betty D. McManus, M.Ed.

BUSINESS MANAGEMENT

Business Manager	Frank C. Balbo, B.S.
Accounting Officer	James S. Simpson
Business Services Officer	Thomas J. White, B.A.
Personnel Officer	Charles Coil, Jr., A.B.
Supervisor of Buildings and Grounds	John L. Foster, B.S.

LIBRARY

Technical Services	Miriam C. Souza, A.B.
Cataloger	Agnes L. Bennett, A.M.L.S.
Cataloger	Judy J. Ting, M.A.
Public Services	J. Carlyle Parker, M.L.S.

SECRETARIAL STAFF

Secretary to the Assistant to the President	Esther Noda
Secretary to the Executive Dean	Leona O. Cabral
Secretary to Dean of Academic Affairs	Olivia M. Stalter
Secretary to Dean of Student Affairs	Fern V. Hoagland
Secretary to Associate Dean, Curriculum	Marion J. McCardia
Secretary to Associate Dean, Educational Services and Summer Session	Deanna Duffy
Secretary to Associate Dean, Admissions and Records	Lucille Graham
Secretary to Registrar	Alice A. Ferrell
Secretary to Associate Dean, Counseling and Testing	Maureen Fantazia
Secretary to College Librarian	Sharon Bullard
Secretary to Business Manager	Gail K. Milam
Secretary to Business Services Officer	Phyllis Peters
Secretary to Supervisor Buildings and Grounds	John J. Poland

GENERAL INFORMATION

HISTORY OF THE COLLEGE

The College is one of eighteen institutions comprising the California State College system. Dr. J. Burton Vasche was appointed first president of the College. The College opened its doors for the first time on September 19, 1960, in temporary facilities at the Stanislaus County Fairgrounds in Turlock. The College, which in its first years limited enrollment to juniors and seniors, admits its first freshman class in the fall of 1965.

Gerard J. Crowley, upon the death of President Vasche, became acting president in June, 1962.

Dr. Alexander Capurso was appointed president of the College in March, 1963, by the Board of Trustees of the California State College system and assumed this post July, 1963.

The College moved to its new campus in June, 1965. New air-conditioned facilities, including a Library Building and Classroom Building, provide well-equipped facilities for the sciences, arts, and music, in addition to lecture and seminar rooms in other disciplines. Effort has been made to develop a campus outstanding in efficiency and beauty through the use of distinctive features, both in interior and exterior design. The master plan for the campus has been designed for an eventual enrollment of 12,000 students. Enrollment for the next decade is estimated not to exceed 3,000.

PHILOSOPHY AND OBJECTIVES OF THE COLLEGE

The objectives of the College are two-fold:

1. To offer a liberal arts program of outstanding academic merit.
2. To provide professional training in areas such as Education and Business Administration.

In pursuing these objectives the College espouses certain basic principles:

Effective learning demands active participation and total commitment.

Learning is more than a quantitative acquisition of facts. In a liberal arts college it becomes ideally an imaginative recreation of knowledge with student and instructor cooperating in a free exchange of informed and responsible points of view.

General Information

A liberal arts education stresses principles and theories of knowledge. Though specific information and skills are necessary in modern education, they are best understood within a broad intellectual framework.

The liberal arts properly lay emphasis upon the interrelatedness of knowledge without minimizing the importance of scholarly fields of intensive specialization. The College encourages students and faculty to cross departmental lines where possible.

The liberal arts combine a body of learning with an attitude of mind. The body of learning provides a basis for later specialization as well as wide involvement with academic and moral values. As an attitude of mind, through the joint efforts of several disciplines probing fundamental concepts, the liberal arts develop tools for more effective thinking, analytical judgment, critical evaluation, aesthetic appreciation, and sound choice making. The College does not consider the academic process as a categorical imperative: learning either for immediate ends or for long range self-development. Rather it views education as a comprehensive whole, necessary both for professional competence and for the fulfillment of individual potential.

The faculty and administration of the College hold that a true liberal arts program must be rigorous, exacting, stimulating, exciting, rewarding, and intellectually satisfying.

THE LIBERAL ARTS BASE FOR ENTERING FRESHMAN

The Liberal Arts base, required of entering freshmen, concentrates faculty talent and administrative resources on a curriculum designed to give all freshmen a thorough and intensified grasp of our cultural heritage, the basic principles of science, the development of systems of knowledge, and the refinement of intellectual processes. By carefully integrating the various strands of the freshmen program and by developing each of these courses in terms of one another, the College intends to help stimulate a mood of inquiry and a constant intellectual interchange between the curricular and the extracurricular.

The four freshman sequences are: composition and world literature, western civilization, science, and music and art. Freshmen may also elect to take an extra one-half unit of physical education selected from a limited number of activities courses available during 1965-66.

Students contemplating a major in art, foreign language, mathematics, or music may postpone the art and science strands. Program adjustments will be made for other students where the academic record indicates this as desirable.

ACCREDITATION

The College is fully accredited by the Western Association of Schools and Colleges, and is a member of the American Association of Colleges for Teacher Education. It is approved by the United States Veterans Administration, the California State Department of Veterans Affairs, and the Association of American University of Women.

Courses and degrees are accepted by the Credentials Office of the California State Department of Education.

DEGREE AND CREDENTIAL PROGRAMS

The College offers programs leading to the following baccalaureate degrees:

Bachelor of Arts
Bachelor of Education *

The College offers programs leading to the following school credentials: †

Elementary Teaching Credential
Secondary Teaching Credential

MASTER'S DEGREE

The Board of Trustees of the California State Colleges has not authorized the College to confer a master's degree in any academic field, except as specifically provided in their resolution of June 4, 1964, permitting a restricted group of students to pursue work toward an M.A. in Education. Additional students will not be admitted to a master's program at the College. Admission to graduate courses does not constitute admission to candidacy for a master's degree. Assurance cannot be given that courses taken in graduate status will be accepted toward a master's program at any time in the future by the College or will be accepted in transfer by another institution as partial fulfillment of its requirements for the master's degree.

QUARTER SYSTEM

Since the College first opened in September 1960, it has operated on the semester system, each semester being approximately 16 weeks in length.

* The Bachelor of Education degree program is being phased out. No new enrollments have been accepted since June 6, 1964.

† Courses are offered which may be applied toward the satisfaction of credential requirements as set forth by the California State Board of Education. See Division of Education, page 83. For further information inquire at the Division of Education Office.

General Information

Beginning in September 1965, the College will convert to the quarter system, each quarter being approximately 11 weeks in length. The quarter calendar will allow the College to move into year-round operation by simply adding a fourth quarter. The typical student will be enrolled in four four-unit courses each term, enabling him to concentrate his efforts on fewer courses during a single term than normal under the semester system. The fall quarter will end prior to Christmas vacation, thus avoiding an extended interruption of classes prior to the final weeks of the term, as is typical under the semester system.

Semester units can be converted to quarter units by multiplying by $1\frac{1}{2}$ (4 semester units $\times 1\frac{1}{2} = 6$ quarter units). Quarter units are converted to semester units by multiplying by $\frac{2}{3}$ (9 quarter units $\times \frac{2}{3} = 6$ semester units).

LIBRARY

The College Library provides the recorded knowledge and cultural materials that students and faculty need for study and research. These materials are freely available in an attractive and comfortable building staffed by professionally trained librarian-scholars who organize, analyze, and interpret them, and aid students in acquiring principles of independent library research.

The College Library occupies the second floor of a new building equipped to house 72,000 volumes and 350 readers. It features an outdoor reading area, a 24-station listening room, individual study desks, and group study rooms.

The general collection of the College Library has been selected to meet the needs of the curriculum. It contains over 50,000 volumes and about 700 periodicals. Backfiles of most of these periodicals are also available. The Library has recently become a selective depository of U.S. Government publications and has also a collection of California documents.

The Curriculum Library and Children's Collection occupy a separate room in the new Library Building. About 4,000 volumes of courses of study, curriculum guides, and units of work are available. More than 2,500 supplementary textbooks are in the Curriculum Library in addition to complete sets of all California state texts. Other aids for teachers, such as maps, charts, reading laboratory kits, are a part of the Curriculum Library. The College Library is one of the twenty Curriculum Materials Center Depositories through which it obtains two copies of all curriculum materials published by the county schools of California. A model collection of about 500 of the best children's books comprises the Children's Collection.

With a staff of seven professional librarians, at least one librarian is on duty at all times to give reference service and reader advisory service.

SUMMER SESSION AND EXTENSION

The College offers summer session programs each year with courses available in most of the major areas of the curriculum. The programs offered enable students to complete course requirements more rapidly than would otherwise be possible. The summer session also allows teachers an opportunity to acquire depth in academic fields, to complete credential requirements, and to advance their professional competencies. Summer session is the first term of the academic year. A summer session bulletin is issued annually.

The College offers a limited program of extension courses. An extension bulletin is published each quarter. Summer session and extension students planning to complete the College's degree or credential programs should see Admission to the College, pages 22-31.

For bulletins and information refer to the Office of the Associate Dean, Educational Services and Summer Session.

INTERNATIONAL PROGRAMS

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

A selection among applicants from all California State Colleges is made on the basis of academic, linguistic and personal qualifications. The criteria are:

- a) Upper division or graduate standing by the beginning of the academic year abroad;
- b) Academic achievement;
- c) Proficiency in the language of instruction;
- d) Faculty recommendations.

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

Programs in Japan, Sweden and Taiwan do not require previous linguistic preparation; applicants for all other programs must demonstrate adequate facility in the language of instruction at the host university.

Admission to the College

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

ADMISSION TO THE COLLEGE

During 1965-66 the College will be offering programs for freshmen and for students who have completed at least two years of study at a junior college or a four-year institution. The College will also offer postgraduate credential programs and other courses for unclassified graduate students. A full program for sophomores will be added in fall 1966.

ADMISSION REQUIREMENTS

Requirements for admission to the College are in accordance with *Title 5*, Chapter 5, Sub-chapter 2 of the *California Administrative Code* as amended by the Board of Trustees of the California State Colleges on January 21, 1965. A prospective applicant who is unsure of his status under these requirements is encouraged to consult with a school or college counselor or contact the College Admissions and Records Office.

ADMISSION AS A FRESHMAN

An applicant who has had no college work will be considered for admission under one of the following provisions. Except as noted, submission of the results of the College Entrance Examination Board Scholastic Aptitude Test (SAT) is required.

Overall excellence of performance in high school subjects and evidence of academic potential provide the basis for admission at the College. While no course pattern is required, the applicant to be properly prepared to undertake a full program of studies and particularly to pursue the required program in general education, is strongly encouraged to include the following subjects as *minimally* adequate background for college work:

1. College preparatory English, 3 years (4 years preferred)
2. Foreign language, 2 years in one language
3. College preparatory mathematics, 2 years
4. College preparatory laboratory science, 1 year in 11th or 12th grade
5. College preparatory history and/or social science, 2 years

Admission to the College

6. Study in speech, music, art, and other subjects contributing to general academic background.

Below is a listing of specific high school subjects *recommended* for students who intend to pursue the majors offered by the College.

Art: Foreign Language, 2 years (French preferred); Art, as much drawing and color experience as possible.

Biological Sciences: Mathematics, through trigonometry; Foreign Language, 4 years (2 years Latin and 2 years French or German preferred); Biology, preferably 2 years; Chemistry, 1 year; Physics 1 year.

Business Administration: Mathematics, 4 years.

English: English, 4 years.

History: History and/or social science, 4 years preferred.

Mathematics: Foreign Language, 4 years French or German preferred; Biology, 1 year; Chemistry, 1 year; Physics, 1 year; Mathematics, 4 years.

Music: Foreign Language, 2 years French and 2 years German preferred; Music, as much private study as possible and as much participation in both vocal and instrumental music as possible.

Physical Sciences: Foreign Language, 2 years (German preferred); Biology, 1 year; Chemistry, 1 year; Physics, 1 year; Mathematics, 4 years.

Social Science Interdepartmental Major: History and/or social science, 4 years preferred; Foreign Language, 4 years.

Spanish: Foreign Language, 2 years Latin and 2 to 4 years Spanish preferred.

Speech-Drama: Activities in forensics and drama.

California High School Graduates and Residents. An applicant who is a graduate of a California high school or a legal resident for tuition purposes must have a grade point average and total score on the SAT which provides an eligibility index * placing him among the upper one-third of California high school graduates. The grade point average is based upon the last three years and does not include physical education or military science. The table below does not cover every case, but gives several examples of the test score needed with a given grade point average to be eligible for admission.

* For 1965-66 the minimum eligibility index is 3596. It is computed by multiplying grade point average by 1000 and adding it to the total SAT score.

Admission to the College

Grade Point Average	SAT Needed
3.20 and above	Eligible with any score
2.80	796
2.40	1,196
2.00	1,596
1.99 and below	Not eligible

Non-Residents Graduating from High Schools in Other States or Possessions. An applicant who is a non-resident for tuition purposes and who is a graduate of a high school in another state or a U.S. possession must have an eligibility index which would place him among the upper one-sixth of California high school graduates for 1965-66. The minimum required eligibility index is 4036 and is calculated as in the previous section.

Graduates of High Schools in a Foreign Country. An applicant who is a graduate of a foreign high school must have preparation equivalent to that required of eligible California high school graduates. The College will carefully review the previous record of all such applicants and only those with promise of academic success equivalent to that of eligible California high school graduates will be admitted. Such applicants are not required to take the SAT.

Non-High School Graduates. An applicant who is over 21 years of age, but has not graduated from high school will be considered for admission only when his preparation in all other ways is such that the College believes his promise of academic success is equivalent to that of eligible California high school graduates.

Other Applicants. An applicant not admissible under one of the above provisions should enroll in a junior college or other appropriate institution. Only under the most unusual circumstances will such applicants be permitted to enroll in the College. Permission is granted only by special action.

ADMISSION AS AN UNDERGRADUATE TRANSFER

An applicant who has attempted college work will be considered for admission under one of the following provisions. Undergraduate transfer applicants who would be entering the College with fewer than ninety quarter units (sixty semester units) completed, except for students from a foreign country, are required to submit the results of the Scholastic Aptitude Test.

Applicants with 90 or More Quarter Units. An applicant who has completed 90 or more quarter units (60 semester units) will be admitted if he has achieved a grade point average of 2.0 (C) on all college work attempted and he was in good standing at the last college attended.

Admission to the College

Applicants with Fewer Than 90 Quarter Units. An applicant who has completed fewer than 90 quarter units (60 semester units) may be admitted if he meets the above requirements and he meets requirements currently in effect for first-time freshmen or, if he has been in full-time continuous enrollment at a college since his graduation from high school, he meets the requirements in effect for first-time freshmen at the time of his high school graduation.

Other Applicants. Only under the most unusual circumstances will an applicant not meeting either of the above provisions be considered for admission. Permission is granted by special college action.

GRADUATE STUDENTS

Graduate students may be admitted with unclassified status if they have completed a four-year college course and hold an acceptable baccalaureate degree. Classified status can be granted to qualified graduate students only when the College offers an authorized master's degree program.

STUDENTS FORMERLY ENROLLED

Students formerly enrolled at the College who after an absence of one or more regular terms desire to return may be readmitted by formally applying for readmission.

ADMISSION PROCEDURE

WHO NEED APPLY

An Application for Admission or Readmission form must be filed by any person who plans to enroll for a fall, winter, or spring quarter and who either was not enrolled for residence credit or audit courses, or who withdrew from the College, during the regular term preceding the quarter for which he intends to enroll. A student enrolled at the College who qualifies for a baccalaureate degree must apply for readmission with graduate standing in order to continue his enrollment. Enrollment in summer session or extension courses does not exempt a person from the above requirements.

Students Seeking Enrollment for Fewer than 7 Units. Students seeking to enroll in a fall, winter, or spring quarter for fewer than seven quarter units must complete the admission procedure and are subject to the admission requirements stated above.

Students Seeking Enrollment as Auditors Without Credit. Students seeking only to audit courses without credit must complete the admission procedure. If accepted, these students must pay the same registration fees as other students. (See Auditors, page 33)

Admission to the College

Students Seeking Summer Session or Extension Enrollment.

Students seeking to enroll only for summer session or extension are not subject to the admission requirements stated above and are not required to comply with the admission procedure or to matriculate unless they intend to complete the College's degree or credential requirements. Summer session students and extension students who will be enrolling in residence credit courses to complete the College's degree or credential requirements may qualify for existing degree or credential requirements and secure assignment to a major adviser by completing the admission procedure and satisfying the admission requirements.

WHEN TO APPLY

Applications for admission, available on request from the Admissions and Records Office, are accepted beginning February 15 for the fall quarter, September 15 for the winter quarter, and December 15 for the spring quarter. Applications for admission or readmission with all transcripts and supporting admission documents are due in the Admissions and Records Office not later than August 15 for the fall quarter 1965,* November 15 for the winter quarter and February 15 for the spring quarter. The College cannot guarantee admissions processing for students who complete the application procedure after these due dates.

Although the College anticipates that it will be able to accommodate all students who are expected to enroll during 1965-66, it is possible that control of enrollment on a first-come, first-serve basis will be necessary because of budgetary limitations imposed on the California State Colleges. For this reason, and because priority in registration will be assigned based on the date a student completes the admission procedure, all applicants for admission are urged to apply as early as possible.

APPLICATION FEE

A fee of five dollars (\$5.00) is charged for processing of applications for admission to the College. This fee is non-transferable, non-refundable and applies to (1) all persons not regularly enrolled at the College during either of the two regular semesters (three quarters) immediately preceding, and (2) former students who subsequently registered in another college for residence, summer, extension, or correspondence courses. Students seeking summer session or extension registration only and those seeking only to audit courses without credit are exempt from this requirement.

* The application deadline for the fall quarter, 1966, will be early in spring 1966 on a date to be announced.

TRANSCRIPTS REQUIRED

An applicant must request complete official transcripts from (1) the last high school he attended and (2) each college and university at which he registered, to be sent *directly* to the Admissions and Records Office. Transcripts presented by students cannot be accepted.

No determination of admission eligibility will be made until all required transcripts have been received. Official transcripts must include a complete record of all previous high school and college work attempted whether or not the applicant desires credit. A separate official transcript is required from each college attended even though one transcript may show work completed at another college. All records submitted become the property of the College and cannot be returned to the applicant or duplicated.

Applicants with Courses in Progress. An applicant who is in attendance at a school or college at the time of application must file a transcript which includes the subjects in which he is currently enrolled. After the applicant has completed these subjects, he must notify his school or college to forward a supplementary record showing the final grades for that term.

Veterans. A veteran who desires to have his military records evaluated for possible credit toward a baccalaureate degree must file a copy of his separation papers or form DD 295 with his application.

Graduate Students. An applicant who holds a baccalaureate degree from an accredited institution and who is not seeking a degree from the College needs only to verify his baccalaureate degree to the Admissions and Records Office by filing an official transcript from the institution at which his degree was earned. A graduate student (other than a graduate of the College) who is seeking admission to a credential program must also request that complete official transcripts be sent directly to the Credentials Office of the College from each college and university at which he registered.

Former Students. Former students of the College who are returning after graduation or an absence of one or more semesters are required to submit official and complete transcripts covering attendance at any other college since the date of last enrollment at the College. A former graduate student who is not planning to complete the College's degree or credential requirements need not submit additional transcripts.

Summer Session and Extension Registrants. A student seeking to enroll for summer session or extension is not required to file official transcripts unless he plans to complete the College's requirements for a degree or credential.

Admission to the College

ADMISSION EXAMINATION

Students who will be entering the College with fewer than ninety quarter units (sixty semester units) completed, except for applicants in a foreign country, are required to take the College Entrance Examination Board Scholastic Aptitude Test (SAT). All other undergraduate applicants are encouraged to take this test if they do not file the results of a recent college entrance examination with the Admissions and Records Office. Test results will be used as a basis for counseling and, when required, for determining eligibility for admission.

The Scholastic Aptitude Test (SAT) may be taken at the College and other testing centers throughout the world on the dates listed below. Applicants for admission should take the SAT not later than March for fall admission, July for winter admission, and January for spring admission. The test fee is \$4.50, payable at the time of application to take the test.

Application Deadline

June 16, 1965
October 9, 1965
November 20, 1965
December 18, 1965
February 19, 1966
April 23, 1966
June 25, 1966

Test Date

Wednesday, July 14, 1965
Saturday, November 6, 1965
Saturday, December 4, 1965
Saturday, January 8, 1966
Saturday, March 5, 1966
Saturday, May 7, 1966
Saturday, July 9, 1966

Applications and fees should be sent directly to the College Entrance Examination Board, Box 1025, Berkeley, California 94701, in time to be received not later than four weeks and preferably six weeks prior to the test date selected. Application forms to take the test may be secured from high school and college counseling offices and the College Entrance Examination Board. Only test scores reported to the College by the College Board are accepted.

Special institutional administrations of the SAT on dates to be announced prior to the admission deadlines will be arranged exclusively for applicants of the College. Interested applicants should contact the Office of the Associate Dean, Counseling and Testing, regarding special institutional administrations of the SAT.

HEALTH HISTORY STATEMENT AND EXAMINATION

A complete physical examination by the student's private physician is required for the following categories of admitted students: 1) new students enrolling for more than 6 units; 2) former students of the College enrolling for more than 6 units who were not regularly enrolled at the College during either of the two regular semesters (3 quarters) immediately preceding. All other admitted students must submit a

health history statement. Appropriate forms will be provided all admitted students.

STATEMENT OF RESIDENCE

A Statement of Residence must be submitted by a student (1) who enrolls for the first time in a regular term at the College, (2) whose residence status has changed since his last enrollment, and (3) who was not regularly enrolled at the College during either of the two regular semesters (3 quarters) immediately preceding.

EVALUATION AND ACCEPTANCE OF CREDIT

The Admissions and Records Office will evaluate previous college work in terms of its relationship to the requirements of the College. Each student seeking a degree will be issued an Evaluation of Credit which will serve as a basis for determining the remaining requirements for the student's specific objective. The evaluation remains valid as long as the student matriculates at the date specified, pursues the objective declared, and remains in continuous enrollment. The student will not be obligated to meet additional graduation requirements unless such requirements become mandatory as a result of changes in the *California Administrative Code*.

Because of these regulations, the student should notify the Admissions and Records Office immediately if he changes the degree objective specified in his evaluation. (See Declaration or Change of Major or Minor, page 35.)

While a student may elect to graduate under the degree requirements in effect at the time of his admission, he will be held responsible for complying with all changes in other regulations, policies, and procedures which may appear in subsequent catalogs.

TRANSFER OF CREDIT FROM A JUNIOR COLLEGE

Junior college credit is allowed up to a maximum of 105 quarter (70 semester) units. No upper division credit may be allowed from a junior college, nor may credit be allowed for professional courses in education or courses not appropriate in purpose, scope, and depth to a baccalaureate degree.

CREDIT FROM NON-ACCREDITED COLLEGES

Courses from institutions of higher learning which are not accredited to offer work leading to the baccalaureate degree by a regional accrediting agency recognized by the U.S. Office of Education and courses from those which are accredited as a "specialized institution" will be accepted for credit toward advanced standing and fulfillment of graduation requirements only if appropriate in purpose, scope and depth to a bac-

Admission to the College.

calaureate degree. Credit allowed from these institutions will be designated as provisional. Regular credit may be granted upon adviser recommendation and completion of 24 units at the College with a 2.0 (C) grade point average or better.

A student with a degree from such an institution may have his educational experience recognized by the College as equivalent to the completion of a baccalaureate degree from a regionally accredited institution upon adviser recommendation, department and division endorsement, and completion of 24 units at the College with a grade point average of 2.0 (C) or better.

CREDIT FOR EXTENSION AND CORRESPONDENCE COURSES

The maximum credit for correspondence and extension courses which may be allowed toward the bachelor's degree is 36 quarter units, of which not more than 18 may be transferred from other colleges.

WORKSHOP CREDIT

Workshop credit does not substitute for course credit in a credential sequence and will not be applied toward the general education, major, or minor requirements of the College. Such credit may be applied toward a bachelor's degree only as elective units.

CREDIT FOR MILITARY SERVICE

Undergraduate students who have been in military service may receive credit toward a baccalaureate degree. Courses taken at military service schools if appropriate in purpose, scope, and depth to a baccalaureate degree may also yield credit. Military experience will be evaluated only upon request. Separation papers or form DD 295 verifying such experience must be filed with the Admissions and Records Office before credit will be allowed.

ACADEMIC ADVISING

Academic advising is primarily the responsibility of faculty members in the specific academic areas. Upon admission each transfer student is referred to an adviser in his major field of study. Freshmen, however, are encouraged not to officially declare a major. The Counseling and Testing staff, along with a group of freshman advisers, will provide assistance through the medium of testing and counseling for students who are uncertain concerning their choice of major and/or its concomitant vocational choice, as well as for students requiring only verification of an existing choice. Assignment or reassignment of advisers is made through the academic divisions on official declaration or change of major. (See Declaration or Change of Major or Minor, page 35.)

Admission to the College Academic Standards

Although the adviser assists the student in planning his entire educational program the student is considered to be responsible for meeting all requirements for his degree or credential. Students are encouraged to consult their adviser at any time as the need arises. Specific days for registration advising are designated each quarter in the Academic Calendar to provide a time for those students who need to consult their adviser for assistance in determining their program of courses for the following quarter.

REGISTRATION

Registration is the final step in the matriculation process. When a student has been admitted to the College and has determined which subjects he should take, he is ready for registration. Academic advisement, if needed, should precede registration.

A *Class Schedule* listing courses offered and the procedure for registration is available before registration for each quarter. At registration, every student is required to file an Official Program card with the Admissions and Records Office. A student may not receive credit in any course for which he is not registered. Registration by mail or proxy is not permitted. Late registrants will find themselves handicapped in arranging their programs and must pay a \$5.00 late registration fee, as required by State law.

If a student unofficially drops a course or leaves the College without first reporting to the Admissions and Records Office to make the change official, he will receive grades of F. If he attends a course without officially adding it he will receive no credit for the course.

ACADEMIC STANDARDS

DEANS' LIST OF HONOR STUDENTS

Each quarter the Dean of Academic Affairs and the Dean of Student Affairs jointly publish a list of undergraduate honor students. To qualify for the Deans' list a student, during the quarter under consideration, must (1) register for and earn a minimum of 12 units of credit at the College, and (2) achieve a 3.5 (B+) grade point average for all course work attempted at the College.

GRADING SYSTEM

A-Excellent	4 grade points per unit
B-Very Good	3 grade points per unit
C-Satisfactory	2 grade points per unit
D-Unsatisfactory	1 grade point per unit
F-Failing	0 grade points

Academic Standards

P—Passing	No effect on grade point average
IS—Incomplete, Satisfactory	No effect on grade point average; reverts to F if not removed by the last day of the third following quarter, except when an extension of time has been granted
IU—Incomplete, Unsatisfactory	0 grade points; reverts to F if not removed by the last day of the third following quarter, except when an extension of time has been granted
H—Audit	No effect on units earned or grade point average
NR—No Report	No grade reported by instructor
W—Withdrawal, Ungraded	No effect on units earned or grade point average
WS—Withdrew, Satisfactory	No effect on units earned or grade point average
WU—Withdrew, Unsatisfactory	0 grade points

“Pass” (P) or “Fail” (F) grades may be awarded in courses for which standard letter grades are inappropriate, such as workshop, public performance, practicum, or activity courses. A grade of P indicates the achievement of a sufficient portion of the course objectives to justify the awarding of unit credit. The grade of P or F will be used for all sections of a course and given to all students in each section. Courses in which P and F grades are awarded will be designated in the *Class Schedule*.

SCHOLARSHIP STANDARDS

Good Standing: “Good Standing” indicates that a student is eligible to continue in attendance and is not under academic disqualification or disciplinary suspension from the College.

Probation: Probation designates a student whose academic achievement has been unsatisfactory. A student whose grade point average is below 2.0 (C), based upon all course work attempted at the College and/or other colleges, is placed on probation. A student on probation is eligible to continue his attendance at the College.

Disqualification: Poor academic achievement may lead to disqualification. A disqualified student is not eligible to continue his attendance at the College. A student will be subject to disqualification if he:

- 1) Accrues, as a lower division student (less than 90 quarter units of college work completed), an overall or SSC grade point deficiency of 23 grade points or more.
- 2) Accrues, as a junior (90-134 quarter units of college work completed), an overall or SSC grade point deficiency of 14 grade points or more.
- 3) Accrues, as a senior (135 quarter units of college work completed or more), an overall or SSC grade point deficiency of 9 grade points or more.
- 4) Fails to earn a 2.0 (C) grade point average while on probation.

Academic Standards Policies and Procedures

- 5) Does not earn at least a 1.0 (D) grade point average during any quarter.
- 6) Neglects to remove any grade point deficiency within three quarters of admission on probation or of the quarter in which the grade point deficiency was incurred.

Reinstatement After Disqualification: After completion of the period of disqualification and after fulfillment of any other requirements stipulated, a student may apply for readmission and reinstatement through the Admissions and Records Office.

STANDARDS FOR ORAL AND WRITTEN EXPRESSION

Students are expected to demonstrate an appropriate standard of English in all of their college work. Failure to do so may be considered in its evaluation.

POLICIES AND PROCEDURES

NOTE: Students are held individually responsible for knowing and complying with these regulations.

ATTENDANCE OF CLASSES

Regularity in attending classes is assumed. Students are allowed no specified number of absences, but legitimate absences for which instructors will make allowances are: illness, accident, death in family, religious holidays, and college activities which the student is obligated to attend. In such cases the instructor may give the student opportunity to make up the work missed. The Veterans Administration requires notification when students under its program become irregular in attendance.

AUDITORS

Admitted students may register in courses as auditors without credit with permission of the instructor provided there is room. An auditor must pay the same registration fees as other students and may not change his registration to obtain credit after the last day to add a course. A student registered for credit may not change to audit status after the last day to drop a course without a grade. An auditor is not permitted to take examinations in the course. An audited course will not be posted on a student's permanent academic record unless he has formally registered for the course and, in the opinion of his instructor, has attended a substantial number of class meetings.

CONCURRENT ENROLLMENT

A student pursuing a degree or credential at the College who desires to enroll for a course at another institution or in an extension course

Policies and Procedures

at the College must secure prior approval from his major adviser and from the Registrar. Request for Approval of Concurrent Enrollment forms are available in the Admissions and Records Office. Credit may not be granted for units earned during concurrent enrollment unless prior approval is obtained. Such approval is necessary even though the student is not enrolled in resident courses at the College during the same quarter in which he is enrolled at another institution or for the College's extension courses. Although approval for concurrent enrollment may be granted, the acceptance of credit depends on evaluation policy. (See Evaluation and Acceptance of Credit, page 29.)

OFFICIAL PROGRAM LIMITS

A student electing during fall, winter, or spring quarter to carry a course load in excess of 18 units, including audit and incomplete courses, must submit a petition approved by his major adviser to the Dean of Student Affairs. Students with outside responsibilities are advised to reduce their study loads proportionately. Excess unit petition forms are available from the Office of the Dean of Student Affairs.

CREDIT BY EXAMINATION

Any student in resident study who can offer convincing evidence of having achieved the objectives of a course offered at the College for which credit has not otherwise been allowed may petition through the instructor to the department head and division chairman concerned for a special examination in order to fulfill the course requirement and/or earn unit credit toward a degree. Forms for this purpose are available from the Admissions and Records Office. Students who wish to secure unit credit toward a degree under this plan must register at a regular registration period for the course to be completed by examination. The letter grade earned will be recorded on the student's permanent academic record and appropriate grade points will be assigned. Credit received by examination will not count toward the residence requirement of the College.

INDIVIDUAL STUDY COURSES

Individual study courses are available in certain fields to a student who has demonstrated capacity for independent study and superior ability in regular course work in those fields at the College. These courses are numbered 498 and 598 (and 698 in the professional field of Education) following the subject field prefix. Individual Study courses are not offered to cover the content of a course already part of the College's regular program of instruction, even though the course may not be offered every quarter.

A student seeking to enroll for an Individual Study course must file a Request for Course by Individual Study form with the Office of the

Dean of Academic Affairs during the advising for registration period indicated in the Academic Calendar. The request for individual study must be approved by the student's individual study instructor, major adviser, and the department head and/or division chairman concerned.

POSTBACCALAUREATE CREDIT

All courses taken during the term in which a student earns his degree that are not needed to fulfill degree requirements will, upon the approval of the Request for Postbaccalaureate Credit form, be indicated on his Permanent Academic Record as acceptable postbaccalaureate credit. Request forms are obtained from and filed with the Admissions and Records Office.

GRADUATE LEVEL CREDIT

Courses numbered 500-699 are graduate courses, open to those with bachelor degrees and adequate preparation, and are designated by the letter G following the course title on a student's permanent academic record. The G designation and graduate level credit also may be given approved upper division courses for a qualified graduate student who during the advising for registration period indicated in the Academic Calendar obtains the signatures of the instructors concerned on his Official Program card. Undergraduate courses, numbered 300-499, which are approved for graduate level credit may be taken for 4 or 5 units and will be listed in the *Class Schedule*. Graduate level credit may not be added to a student's official program after the last day to add courses, nor deleted from his official program after the last day to drop a course without a grade.

It is customary to require additional or supplementary individual assignments which cause greater exploration in depth of those students taking an upper division course for graduate level credit.

DECLARATION OR CHANGE OF MAJOR OR MINOR

A student who selects or changes his major after admission must file a Declaration or Change of Major or Minor form with the Admissions and Records Office. This request form must be endorsed by his current major adviser and the division chairman or department head of his new major. The requirement and procedure are similar for selection or change of a minor.

At the beginning of the last quarter of his sophomore year a student should officially declare or verify his major and minor by submission of this form.

CHANGE OF OFFICIAL PROGRAM

No change in a student's program of courses will be recognized unless it is made on official forms, properly signed, and accepted at the Admis-

Policies and Procedures

sions and Records Office. Unauthorized withdrawal or dropping of a course will result in a final grade of F.

A student may drop a course during the quarter, subject to the following regulations:

1. A course may be removed from the official program of courses if an approved Request for Program Change or Withdrawal form is filed in the Admissions and Records Office on or before the last day to drop a course without a grade, as shown in the Academic Calendar.
2. After the last day to drop a course without a grade, a student who officially drops a course in which he is doing C work or better, as judged by his instructor, will receive a grade of WS; if his work is D or F, he will receive a grade of WU, which is equivalent to an F.
3. A student may not drop a course after the last day to drop a course, as shown in the Academic Calendar.

Students may add courses by filing an approved Request for Program Change or Withdrawal form in the Admissions and Records Office not later than the last day to add a course, as shown in the Academic Calendar.

LEAVE OF ABSENCE

A student withdrawing from the College who will be absent for an academic year may for valid reasons request for a "leave of absence" to protect his right to degree or credential requirements which were in effect at the time he was admitted to the College or admitted to a degree or credential program. This Request for Leave of Absence form is obtained from and filed with the Admissions and Records Office.

WITHDRAWAL FROM COLLEGE

A student may withdraw from the College by filing an approved Request for Program Change or Withdrawal form in the Admissions and Records Office. A student who withdraws from the College is deemed to be fully responsible for such action and is not eligible for readmission to the College prior to the beginning of the next quarter.

Students who file requests for withdrawal after the last day to drop a course without a grade, as shown in the Academic Calendar, will receive WS or WU, as explained in section 2, page 32. A student who takes unauthorized leave may receive a final grade of F in each course for which he was registered. A student may not withdraw after the last day of instruction. However, a student registered for only one course may not withdraw after the last day to drop a course.

INCOMPLETE WORK

Incomplete grades of IS and IU are given for illness or other reasons beyond the control of the student. An IS is awarded if the student is doing C work or better at the time the incomplete grade is awarded as judged by the instructor; a student doing D or F work at the time the incomplete grade is awarded shall receive the grade of IU. Incomplete grades revert to F if not removed by the last day of the third following quarter, except when an extension of time is granted. If missing the final examination is the cause of the incomplete grade it should be made up during the next regular quarter on a date determined by the instructor concerned. An IS grade shall have no effect on a student's grade point average. An IU grade is equivalent to an F. Responsibility for removing an incomplete grade rests with the student. In cases of prolonged illness or any emergency which necessitates an extension of time to remove the grade, the student may petition the Academic Standards Committee through his instructor. Students may not be permitted to graduate until all incomplete grades are removed.

STUDENT CLASSIFICATIONS

Class level:

Freshman	0-44 acceptable quarter units
Sophomore	45-89 acceptable quarter units
Junior	90-134 acceptable quarter units
Senior	135-or more acceptable quarter units
Graduate	Possesses acceptable baccalaureate or advanced degree

Admission status:

General	Met all admission requirements
Probational	Admitted with scholastic deficiency
Conditional	Permitted to register pending official verification of admission status
Extension	Permitted to register for extension course work only
Summer	Permitted to register for summer session course work only

Registration status:

Continuing	Student enrolled in last regular session
Former	Returning student who registered in a previous but not the last regular session
New	Student who is registering in a regular session for the first time

GRADE REPORTS TO STUDENTS

A report of final grades in all courses will be mailed to a student's local address after the conclusion of each quarter and summer session. A student who desires his grades mailed to a different address must notify the Admissions and Records Office one week prior to the end of the term.

Policies and Procedures Fees and Refunds

TRANSCRIPTS

Official transcripts of courses attempted at the College are issued only with the written permission of the student concerned. Partial transcripts are not issued. A student is entitled to one free transcript; a fee of \$1.00 for each subsequent transcript issued must be received before the record can be forwarded. Transcripts from other institutions which have been presented for admission or evaluation become a part of the student's permanent academic file and are not returned or copied for distribution. Students desiring transcripts covering work attempted elsewhere should request them from the institutions concerned.

PETITIONS

Students may petition for waiver of certain college-wide academic requirements or for review of decisions affecting their academic status. Petition forms and information concerning regulations may be secured from the Admissions and Records Office. All such petitions must be reviewed and signed by the student's major adviser and/or instructor, if appropriate, before being filed with the Admissions and Records Office.

FEES AND REFUNDS

Fees are established in accordance with State laws and the regulations of the Trustees of the California State Colleges and are subject to change as prescribed by law.

Auditors must pay the same fees as students enrolled for credit.

REGISTRATION FEES

Payable at time of registration. No individual can be admitted to class prior to payment of all required fees.

Material and Service Fees

Regular Students (over 6 units)	\$25.50
Limited Student (1 to 6 units)	13.00

Associated Students Fees

Each student is required at registration to pay an activities fee. The exact amount is currently under review, but in any case will not exceed \$20.00 per regular student for the academic year.

OTHER FEES AND CHARGES (in addition to registration fees)

Nonresident tuition—per unit (maximum \$167.00 per quarter)	\$11.50
Application Fee (nontransferable and nonrefundable)	5.00
Late Registration Fee (nonrefundable)	5.00
Graduation Fee	10.00
Check returned from bank for any cause	2.00
Change of Program	1.00
Transcript of Record (No charge for first copy)	1.00
Failure to meet administratively required appointment or time limit	2.00
Music Studio Lessons—per lesson	1.00 to 6.00
Replacement of equipment or materials lost or damaged	Cost of item

Fees and Refunds

Library books or materials lost or damaged	Cost plus 1.00
Summer Session—per unit	17.00
Extension Courses—per unit	10.00
Parking Fees	
Nonreserved spaces, autos	
Regular Students—per quarter	9.00
Limited Students—per quarter	4.00
Six-week session or period	5.00
Three-week session or period	3.00
Reserved spaces, per month or major fraction thereof	5.00
Two-wheeled, self-propelled vehicles licensed by State DMV, per quarter	25% of above
Alternate two-wheeled vehicles, per quarter	1.00
Alternate vehicle in addition to fee for first vehicle, per quarter	1.00

NONRESIDENT STUDENTS

The nonresident tuition fee is payable by all students who have not been legal residents of the State of California for at least one year immediately preceding the opening day of the school term.

The rate of tuition to be paid by each nonresident student shall be \$501.00 per year (\$167.00 per quarter; \$11.50 per unit), except that the rate of tuition to be paid by each nonresident student who is a citizen and resident of a foreign country shall be \$258.75 per year (\$86.25 per quarter; \$5.75 per unit). Tuition payable by nonresident and foreign visa students is in addition to fees required of other students.

The nonresident tuition fee will not be required of a student who is the child or spouse of an academic or administrative employee of the California State Colleges.

Certain certificated full-time employees of a California School District are deemed to be resident students.

Initial determination of residence status is made by College officials prior to or at the time of registration, and fees must be paid at registration. Full refund of nonresident fees paid will be made if final determination by the College's legal adviser indicates that a student is a legal resident.

REFUND REGULATIONS

Written application for refund of fees must be made on the forms available from the Admissions and Records Office. The application must be received in the Admissions and Records Office not later than the 14th calendar day following the first day of instruction.

The amount of the Materials and Services Fee paid, less \$2.00 to partially cover the cost of registration, will be refunded if the application is received as stated above. No refunds can be made if application is received after the deadline.

In general, no refunds of other fees and charges, except nonresident tuition, can be made. More detailed information is available in the College Business Office,

STUDENT AFFAIRS

Services are available to aid students in evaluating their own capabilities and objectives and to assist them in selecting activities which will help them gain maximum benefit from their college experience. These and other services are coordinated by the Dean of Student Affairs and include admissions, registration, orientation, academic records, counseling, group and individual testing, placement, part-time jobs and summer work, student health and welfare, loans and scholarships, student activities and alumni.

COUNSELING AND TESTING SERVICE

The Counseling and Testing Service provides a variety of services to students and faculty members of the College. These services may be broadly defined as psychological in character and related to problems of student adjustment and evaluation in an academic environment. The Counseling and Testing Service, under the direction of the Associate Dean, Counseling and Testing, is primarily responsible for assisting those students with problems of vocational choice, the selection of an appropriate academic major (in consultation with the student's academic adviser), educational weaknesses, and personal-social-emotional adjustment. More specifically, the Counseling and Testing Service is able to assist students with problems which can be broadly classified into such categories as: personality and social adjustment, educational, vocational, financial, and health. Examination of these problem categories will make it readily apparent that they are an attempt to describe difficulties arising from the individual's attempt to cope with his total environment.

The Counseling and Testing Service is also able to provide administration, scoring, and interpretation in connection with a wide variety of psychological tests, the results of which can serve such purposes as: admission of students to the College; acceptance and placement of students into particular academic programs; providing information for both student and counselor as a basis for counseling on educational, vocational, and personal problems.

Students are urged to take advantage of the services offered by the Counseling and Testing Service as soon as it becomes apparent that a problem exists which may adversely effect their ability to cope satisfactorily with their environment.

The Counseling and Testing Service is located in the Library Building, Room 102. The office is open from 8:00 to 12:00 noon and from 1:00 to 5:00, Monday through Friday, during the entire year.

ADMISSIONS COUNSELING

The Associate Dean of Admissions and Records assists students in interpreting admissions requirements and in filing applications for admission. Problems concerning evaluation of transcripts should be directed to the Admissions and Records Office.

ACADEMIC ADVISING

Academic advising is primarily the responsibility of faculty members in the specific academic areas. Each student is assigned to a major adviser who is responsible for helping him plan his academic program. During the freshman year, however, students are encouraged not to officially declare a major. The Counseling and Testing staff, along with a group of freshman advisers will provide assistance through the medium of testing and counseling for students who are uncertain concerning their choice of major and/or its concomitant of vocational choice, as well as for students requiring only verification of an *existing* choice. Students in the sophomore year and above who are still uncertain of their choice of academic major may, of course, continue to avail themselves of the assistance offered by the Counseling and Testing Service until a definite academic goal is chosen.

SCHOLARSHIPS AND LOANS

Scholarship and loan funds have been established through the generosity of organizations, groups, and individuals who by this means have demonstrated their interest in the welfare of students of the College. Eligibility is normally limited to those who carry full-time programs, and maintain a grade point average of 2.25 or better. In granting scholarships and loans, consideration is given to financial need, scholastic standing, character, and professional promise. An informational brochure entitled *Financial Aid Program Announcement*, and applications for the award of scholarship and loan funds may be obtained from the Office of the Associate Dean, Counseling and Testing, Room 102 in the Library Building. Applications should be filed by May 15 for the summer session and fall quarter; December 15 for the winter quarter, and March 15 for the spring quarter.

Information on nationwide scholarships, fellowships, and loan funds is available from the Office of the Associate Dean, Counseling and Testing. Students needing financial assistance to pursue graduate work should consult the Office of the Associate Dean early in their senior year.

NATIONAL DEFENSE STUDENT LOAN PROGRAM

Students who qualify may borrow up to \$1,000 per year to a maximum of \$5,000 if undergraduates, and up to \$2,500 per year to a maximum of \$10,000 if graduate students, under the National Defense

Student Affairs

Education Act of 1958 as amended in 1964. Students in all fields who have maintained a grade point average of 2.25 or better may apply. Prospective students should apply by the deadline dates given in the section entitled Scholarships and Loans on page 41. Funds will be released to approved applicants after the last date for dropping a course without a grade in the quarter for which the award is made.

The repayment period on these loans normally begins one year after the borrower ceases to be at least a half-time student (8 units), but may be deferred for a period of up to three years at the discretion of the Accounting Officer and the Associate Dean, Counseling and Testing. Interest is charged from the first day of the repayment period at the rate of 3 percent per year. Borrowers who become teachers in public or non-profit private elementary and secondary schools and institutions of higher education may have 10 percent of their loans cancelled for each year of full-time teaching, up to a maximum of five years.

Inquiries should be directed to the Office of the Associate Dean, Counseling and Testing, Room 102 in the Library Building.

EMERGENCY FINANCIAL AID

Limited funds are available for the provision of short-term, emergency loans to students who experience unanticipated financial difficulties. Loans can be made for amounts not to exceed \$100, except in extreme and unusual circumstances, and must be repaid within a six-month period.

VETERANS ASSISTANCE

The College maintains liaison with the U.S. Veterans Administration and the California State Department of Veterans Affairs. The Registrar assists veterans in conducting their relations with these agencies.

On January 31, 1965, benefits for Korean veterans, Public Law 550, were terminated.

Enrollments and payments for those in training or eligible for training under the War Orphans Educational Assistance Act, Public Law 634, will continue. Educational assistance for the children of veterans permanently and totally disabled from wartime service-connected disability under Public Law 361 will also continue.

The California Educational Assistance to Veterans is now being phased out and is expected to terminate June 30, 1965. The California State Educational Assistance to dependents of deceased or disabled servicemen is expected to continue indefinitely.

Further information about veterans programs may be obtained from the Veterans Clerk in the Admissions and Records Office. A veteran who plans to enroll under one of the federal or state plans of educa-

tional benefits is urged to contact the Veterans Clerk as far in advance of registration as possible.

HOUSING

College-approved residence hall type housing will be available to students of the College beginning with the fall quarter. These housing facilities are privately owned and operated. All students who are unmarried, under 21 years of age, and not living with parents or a legal guardian are required to live in College-approved housing unless exempted by the Student Affairs Office.

In addition to the College-approved residence hall, a list of off-campus rooms, apartments, and houses is maintained on a current basis, and liaison is maintained between the College and the community with regard to student and staff needs.

All students and staff interested in locating housing are encouraged to contact the Office of the Associate Dean, Counseling and Testing, as early as possible, making their needs known so that maximum assistance may be extended. No charge is made for housing services.

STUDENT HEALTH

The objective of the Student Health Center is to assist the student in maintaining an optimum state of health, both physical and mental, so that he may realize to the fullest the opportunities afforded by the College.

HEALTH EXAMINATIONS

A complete physical examination by the student's private physician is required for the following categories of admitted students: 1) new students enrolling for more than 6 units; 2) former students of the College enrolling for more than 6 units who were not regularly enrolled during either of the two regular semesters (3 quarters) immediately preceding. All other admitted students must submit a health history statement. Appropriate forms will be provided all admitted students.

The parent or guardian of each minor student is required to sign a statement giving the College permission to refer a student for treatment in the event of illness or injury. This does not prevent a student from seeking private medical care with a physician of his choice.

STUDENT HEALTH CENTER

The College has a Health Center in Room 117 of the Classroom Building, which makes available medical services to all regular students enrolled. It also provides emergency services to anyone on campus whenever such services are required. *Out-patient services:* The Health Center provides treatment for minor physical ailments, first-aid care for all health problems and consultative services for health problems of a personal nature. *Referral Services:* Health or medical problems

Student Affairs

beyond the ability of the Health Center staff to treat are referred to physicians in the community.

HEALTH INSURANCE PLAN

Outpatient medical services will be automatically provided as part of the Materials and Services Fee * for all students enrolled at the College for more than 6 units. Additional supplemental hospital/surgical coverage will be available to these students through the Associated Students at a cost of \$34.93 for a full calendar year. Students living in College-approved housing, and foreign students will be required to carry the supplemental coverage or to furnish satisfactory proof of equivalent coverage.

The College urges that all students be covered by some form of hospital/surgical plan, as the campus Health Center is not equipped with an infirmary.

Detailed information is available at the Health Center, or in the Office of the Dean of Student Affairs.

STUDENT ACTIVITIES

A program of activities is planned to satisfy a broad range of student interests. A representative student government serves as the official voice of the student body in its relations with the faculty and the administration. Student activities are closely coordinated with the academic program of the College and provide opportunities for the development of responsibility, leadership, and maturity. Membership in student organizations is determined without regard for race, color, religion, or national ancestry. Inquiries pertaining to student activities may be directed to the President of the Associated Students or to the Dean of Student Affairs.

STUDENT CONDUCT AND RESPONSIBILITY

Each student is assumed to be responsible for that high level of personal conduct expected of mature college students; he is expected to adhere to the highest standards of honesty and integrity. Any action by a student which is detrimental to the best interests of the College may be grounds for disciplinary action and could result in suspension, or expulsion. Enrollment in the College constitutes agreement to abide by the principles set forth in this statement and to comply with established College regulations.

PLACEMENT

The College provides placement services to assist qualified students and alumni in securing appropriate full-time or part-time employment.

* Fee is subject to change upon notice from the insuring company.

Placement services include: testing and counseling on vocational choice and selection; counseling on proper techniques for applying for a position; assistance with the preparation of placement packets and forwarding them to prospective employers; listing of available positions, and arranging interviews. Responsibility for preparation of the placement packet and for actually seeking a position rests with the individual.

TEACHER PLACEMENT

As a general rule a student becomes eligible for teacher placement when he has been accepted into a credential program, has completed a minimum number of units at the College, is recognized as having had the equivalent of student teaching experience at the College and is recommended for placement services by the Division of Education. Other students may be eligible, under exceptional circumstances and at the discretion of the Associate Dean, Counseling and Testing. Confidential placement files must be initiated by the student during the quarter preceding student teaching. Prospective candidates may obtain an informational brochure entitled *Teacher Placement Service Announcement*, as well as assistance in completing the placement packet at the Office of the Associate Dean, Room 102 in the Library Building.

BUSINESS AND PROFESSIONAL PLACEMENT

Placement services are available to students who have received degrees from the College, or who will have completed a minimum of 36 quarter units at the College and are recommended by the chairman of their department or division. It is recommended that students register for business and professional placement upon attaining senior standing. Prospective candidates may obtain an informational brochure entitled *Business and Professional Placement Announcement*, as well as assistance in completing the placement packet at the Office of the Associate Dean, Room 102 in the Library Building.

PART-TIME AND SUMMER EMPLOYMENT

A list of part-time job opportunities is maintained on a current basis throughout the academic year as a part of the College's Student Aid Program. Directories and other data concerning summer employment opportunities for college students are also available. The College attempts to assist students in locating jobs as closely related as possible to their major interests. Students anticipating the need for part-time or summer employment are encouraged to contact the Office of the Associate Dean, Counseling and Testing, Room 102 in the Library Building, as early as possible so that maximum assistance can be provided.

Student Affairs

GRADUATE RECORD EXAMINATIONS

The College is a testing center for the Graduate Record Examinations (GRE) of the National Program for Graduate School Selection. The GRE are required by a number of colleges throughout the United States for admission to postbaccalaureate degree programs. These examinations include a basic graduate aptitude test and advanced tests in the following subject fields: biology, chemistry, economics, education, engineering, French, geology, government, history, literature, mathematics, philosophy, physical education, physics, psychology, sociology and Spanish.

The following dates have been tentatively selected for administration of the Graduate Record Examinations at the College during 1965 and 1966:

DATE REGISTRATION CLOSES	TEST DATE
June 25, 1965	July 10, 1965
October 29, 1965	November 13, 1965
December 31, 1965	January 15, 1966
April 8, 1966	April 23, 1966
June 24, 1966	July 9, 1966

Students must register with the Educational Testing Service by mail to take the GRE and must observe the registration closing dates listed above. Registration forms, Bulletins of Information for Candidates, and information concerning the Graduate Record Examinations are available at the Office of the Associate Dean, Counseling and Testing or by letter from the Educational Testing Service, 1947 Center Street, Berkeley, California 94701.

ALUMNI

The Alumni Association maintains a close tie with the College. It is organized for the following purposes:

1. To promote the mutual welfare of all members.
2. To assist the College in developing its human and material resources, with the objective of achieving the highest standards of academic excellence.
3. To encourage creativity and research in all areas.
4. To provide avenues by which the alumnus may contribute to the advancement of knowledge.
5. To maintain and strengthen bonds between the alumnus and the College to the mutual benefit of both through the stimulation of continual intellectual growth.

Inquiries concerning alumni activities may be directed to the Stanislaus State College Alumni Association, in care of the Dean of Student Affairs.

General Requirements for Degrees

THE COLLEGE FOUNDATION

The College Foundation has been organized to provide essential services which cannot be provided from State appropriations. On behalf of the College, the Foundation receives private gifts and public grants. These include contributions to loan and scholarship funds, the library, laboratories, and special collections, as well as research grants and general donations. The Foundation also maintains the College Bookstore and the College food service.

GENERAL REQUIREMENTS FOR DEGREES

During the 1965-66 academic year, the College is authorized to grant the Bachelor of Arts degree, the Bachelor of Education degree and the Master of Arts in Education. The Bachelor of Education and the Bachelor of Arts with a major in Education are being discontinued; students have not been admitted to these curricular programs since June 6, 1964. The Master of Arts in Education degree program is also being discontinued; students have not been admitted to this program since summer, 1962.

Election of Regulations. A matriculated student who remains in continuous enrollment pursuing the same objective may elect to meet the graduation requirements in effect either at the time of his entering the College and a degree program or at the time of his graduation. (See Evaluation and Acceptance of Credit, page 29.)

Application for Graduation. A prospective candidate for a baccalaureate degree should submit an application for graduation to the Admissions and Records Office when two full quarters remain to complete requirements for his degree. In any case a student should not apply later than the date indicated in the Academic Calendar.

Faculty Approval. After approval of the major adviser and the department and/or division concerned, a favorable vote of the faculty is required before the College may award a degree.

Graduation "With Honors". A candidate for a baccalaureate degree who completes his undergraduate program with a 3.5 (B+) cumulative college grade point average or higher and a 3.5 Stanislaus State College grade point average or higher, is graduated "With Honors".

General Requirements for Degrees

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

To qualify for a Bachelor of Arts degree a student must satisfy the specific requirements in the following areas:

UNITS

A minimum of 186 quarter units, at least 60 of which must be in courses recognized for upper division credit, is required.

RESIDENCE

A student must complete a minimum of 36 quarter units at the College. At least 18 of these 36 units must be completed among the last 30 units taken in fulfillment of degree requirements.

Credit in summer sessions may be counted as residence credit on a unit for unit basis. Extension course credit or credit by examination will not be counted as residence credit.

SCHOLARSHIP

Each student must complete with a grade point average of 2.0 (C) or better (1) all acceptable college units attempted, (2) all units attempted in a major field of study, and (3) all units attempted at the College.

GENERAL EDUCATION

A total of 90 quarter units, distributed as indicated below, is required. Note that the course pattern for freshmen applies only to students entering the College directly from high school and those who enter as transfers with freshman standing (less than 45 quarter or 30 semester units). The pattern for transfers applies to transfer students who matriculate with standing above the freshman level (45 or more quarter units).

Courses which during the 1965-66 academic year will be acceptable toward fulfillment of General Education requirements will be indicated in the *Class Schedule* for summer session 1965 and fall, winter and spring quarters, 1965-66.

Requirements for Freshmen. The General Education requirements listed below apply to students admitted as freshmen. This lower division core subject pattern has been developed by the faculty to provide breadth and depth of education through a variety of intellectual and creative experiences outside a student's major. Course sequences in English composition and world literature, the history of civilization, the natural sciences and the arts will typically be taken in the freshman year. Certain majors will need to postpone taking core sequences in favor of courses in the major and supporting fields. The study of

General Requirements for Degrees

psychology, mathematics, logic, government and speech will usually be in the sophomore year. The lower division program will stress the interrelatedness of the major fields of knowledge and will form the foundation for specializations at the upper division level.

	Quarter Units
Social Sciences	
(a) <i>Western Civilization, to include U.S. History:</i> HIST 101, 102, 103	12
(b) <i>U.S. Constitution and Government:</i> PSCI 201 and 202	8
Natural Sciences	
(a) PHSC 101 and BIOL 101 or ZOOZ 102 or BOTY 103	8
(b) Additional biological or physical science courses selected from the following: ASTR 200, 311; BIOL 101; BOTY 103, 470; CHEM 101, 102; GEOL 200; PHYS 101, 102; ZOOZ 102	8
Literature, Philosophy, and Arts	
(a) <i>Literature:</i> ENGL 103	4
(b) <i>Philosophy:</i> PHIL 201	4
(c) <i>The Arts:</i> ART 100, MUS 100, CREA 100	12
Oral and Written Expression	
(a) <i>Oral Expression:</i> SPCH 200	4
(b) <i>Written Expression:</i> ENGL 101 and 102	8
Psychology	
<i>General Psychology:</i> PSYC 201	4
Health and Physical Education	
To include at least 1½ units in activity courses	3
HLTH 101 is applicable to fulfilling this requirement.	
Mathematics	
One of the following: MATH 100, 101, 110, or 120	4
Arts and Sciences Electives	
Courses outside the major field of study as specified in the <i>Class Schedule</i>	11

Requirements for Transfers.

The General Education requirements listed below apply to transfer students admitted above the freshman level.

	Semester Units	Quarter Units
Social Sciences	9	14
Course work in at least two disciplines required.		
(a) <i>American History, Constitution and Government:</i> course work (or demonstrated proficiency) in United States History and Constitution, and California State and Local Government.		
(b) <i>Additional Social Science Courses:</i> courses selected from anthropology, economics, geography, history, political science, sociology, and similar fields. A course in history of world civilization and a course in a social science field not previously studied are recommended.		

General Requirements for Degrees

	Semester Units	Quarter Units
Natural Sciences	9	14
At least one laboratory course required.		
(a) <i>Biological Sciences</i> (minimum 3 semester or 4 quarter units required): courses selected from anatomy, bacteriology, biology, botany, physiology, zoology and similar fields.		
(b) <i>Physical Sciences</i> (minimum 3 semester or 4 quarter units required): courses selected from astronomy, chemistry, geology, physics, and similar fields.		
Literature, Philosophy and The Arts	9	13
(a) <i>Literature and/or Philosophy</i> (minimum 6 semester or 8 quarter units required): a course in world literature is recommended.		
(b) <i>Art and/or Music</i> (minimum 3 semester or 4 quarter units required).		
Oral and Written Expression	6	8
(a) <i>Oral Expression</i> : a basic course in speech is recommended.		
(b) <i>Written Expression</i> (minimum 3 semester or 4 quarter units required): a two term sequence in English composition is recommended.		
Psychology	2	3
A basic course in general psychology is required.		
Health and Physical Education	2	3
A minimum of 1 semester or 1 quarter unit in activity courses is recommended.		
General Education Electives	8	13
These units may be distributed in whole or in part among the preceding six subject areas and may include courses in mathematics, family life education, and foreign language. A course in mathematics is recommended. Only units in courses outside of the student's major field of study will apply toward fulfillment of this requirement.		
Arts and Sciences Electives	15	22
These units may be completed at the lower <i>or</i> upper division level and must be selected from the areas of creative arts, humanities, mathematics, natural science, and social science, excluding courses in the major field of study.		

Important: A maximum of 24 semester or 36 quarter units in each of the fields of creative arts, humanities, natural science-mathematics and social sciences may apply to general education; no more than 12 semester or 18 quarter units in a single discipline within these fields may be applied to General Education.

MAJOR

The major consists of a pattern of upper division courses which are prescribed by the department or division concerned, are exclusive

General Requirements for Degrees

of General Education requirements, and must be preceded by specified prerequisites in the major field of study and in supporting fields. Required courses in a major will total not less than 36 upper division quarter units, except in foreign languages which has a minimum of 32 units.

DEGREE	MAJOR
BA, Art and Music	Art Music
BA, Business Administration	Business Administration (concentrations in Accounting and Administration)
BA, Foreign Language	Spanish
BA, Humanities	English Speech Speech-Drama
BA, Mathematics and Science	Biological Sciences (concentration in biology and zoology) Mathematics Physical Sciences
BA, Social Sciences	History Social Sciences—Interdepartmental (two fields: (anthropology as subordinate field only, economics, history, political science, psychology and sociology)

Note: The Bachelor of Arts degree program with a major in Elementary Education is being discontinued; students seeking teaching credentials are advised to select a subject matter major. (See Division of Education, pages 83–94.) The Bachelor of Arts degree program with a divisional major in social sciences is being discontinued also; students were last admitted to this program during 1964–65.

As the College grows new majors will be added. Freshmen admitted in 1965–66 may claim any additional majors developed and offered in 1967–68 for upper division students.

MINOR

Completion of a minor is a requirement for a Bachelor of Arts degree when required by the department or division of the major. A minor is a pattern of prescribed course work consisting of a minimum of 13 upper division quarter units (except in art, chemistry, foreign language, and physics) and a minimum of 22 quarter units (except in physics) in courses acceptable to the major adviser and the departments and/or divisions concerned. Departmental and divisional minors normally require one-half of the number of units required for a major within a department or division. A maximum of 18 units in course work in a

General Requirements for Degrees

single discipline taken in fulfillment of the minor requirement may also apply toward General Education.

A minor for the Bachelor of Arts degree, if required, may be selected from the listing below:

Anthropology	Music
Biology	Philosophy
Business Administration	Physics
Chemistry	Political Science
Economics	Psychology
English	Sociology
Fine Art	Spanish
French	Speech
History	Speech-Drama
Mathematics	

Note: Satisfactory completion of the Elementary Education credential program may be offered in lieu of the minor requirement for a Bachelor of Arts degree.

As the College grows, new minors will be added. Freshmen admitted in 1965-66 may also claim any additional minors developed and offered in 1967-68 for upper division students.

DEPARTMENTAL AND DIVISIONAL REQUIREMENTS

All requirements of the department or division of the major must be completed to qualify for a Bachelor of Arts degree.

ALL COLLEGE REGULATIONS

Compliance with all regulations prescribed by the College is a requirement for graduation with a Bachelor of Arts degree.

REQUIREMENTS FOR AN ADDITIONAL BACCALAUREATE DEGREE

To qualify for an additional baccalaureate degree at the College a student must:

- (1) Complete a minimum of 36 quarter units in residence at the College after requirements for his last degree have been fulfilled; at least 18 of these units must be in the subject field of the student's current major.
- (2) Comply with all graduation requirements of the College including the General Education requirement and approval by the major adviser, department and/or division of the major, and the faculty.
- (3) Maintain at least a 2.0 (C) grade point average for all Stanislaus State College course work taken while pursuing the additional degree.

COURSE NUMBERING SYSTEM

PRESENT NUMBERING SYSTEM

- 100-299 Lower division courses designed primarily for freshmen and sophomores.
- 300-499 Upper division courses designed primarily for juniors and seniors, and for graduate students.
- 500-699 Graduate courses, open to those with bachelor degrees and adequate preparation.

FORMER NUMBERING SYSTEM

Prior to fall semester 1963, the course numbering system was as follows:

- 3000-4999 Upper division courses designed primarily for juniors and seniors, and for graduate students.
- 5000-5999 Graduate courses, open to those with bachelor degrees and adequate preparation.

DESIGNATION OF GRADUATE LEVEL CREDIT

Beginning with the spring semester 1963, appearance of the letter "G" following a course title on a student's permanent academic record indicates graduate level credit. The "G" designation and graduate level credit may be given approved upper division courses for a qualified graduate student who obtains the permission of the instructor concerned.

SPECIAL COURSE NUMBERS

For uniformity, certain types of courses have been listed under a single number by all departments and divisions as follows:

492, 592 and 692	Workshops
494, 594 and 694	Field Work
498, 598 and 698	Individual Study
499 and 599	Thesis

EXPLANATION OF COURSE NOTATIONS

The notations used in course descriptions listed under the various divisions or departments are as follows:

1. The figure in parentheses following the course title indicates the number of quarter units for the course. Courses offered for varying units are indicated as (2-4), (1-6), etc.
2. The letter "F" following the number of units indicates the course is offered during fall quarter, "W" indicates the course is offered during winter quarter, "S" indicates the course is offered during spring quarter.
3. A notation such as (Formerly 450), at the end of a course description indicates the course was previously numbered 450.

ANNOUNCEMENT OF COURSES

COURSE NUMBERING SYSTEM
DIVISIONAL AND DEPARTMENTAL REQUIREMENTS
COURSE DESCRIPTIONS





Art

In the Division of Creative Arts

Associate Professor: Ralf Parton, Coordinator

Assistant Professor: Martin L. Camarata

Instructor: Noreen M. Richeda

The art curriculum provides for the aesthetic and cultural development of the general student in the liberal arts. Emphasis is upon the development of the student's creative potential through study and experience in studio, theory, and history.

The Bachelor of Arts, Art and Music with a major in art provides a background for students preparing for various professions, study at the graduate level, and teaching.

REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

Art majors are to:

1. Complete the Requirements for the Bachelor of Arts Degree, page 48.
2. Complete prerequisites to the major, page 58.
3. Complete the major of not less than 48 upper division units, which includes a program of study in fields of specialization as developed in consultation with the major adviser.
4. Minor is not required.

GENERAL REQUIREMENTS FOR ART MAJOR AND MINOR

1. No particular pattern of high school art courses are required for admission to the art program, but candidates for a major in art are expected to have special interest and ability in art as revealed by superior grades in art courses.
2. A freshman or lower division transfer will be evaluated for acceptance as a major or minor in art during the final quarter of the sophomore year. Students entering as transfers at the upper division level will be evaluated for acceptance as majors or minors in art during the latter part of the first quarter in which they enroll in art courses in the College. Evaluation will be based upon lower division course work completed in art and a portfolio to include work done on the student's own initiative and work done under class supervision.
3. The Art Department reserves the right to retain student art works and slides for temporary or permanent exhibitions.
4. All art majors are required during their senior year to present a portfolio, and to participate in a group or one-man show in the College Art Gallery.

Art

DEGREE MAJOR IN ART

Prerequisites to the Major

ART 100. Introduction to Art, 4 units
ART 101. Anatomical Drawing, 4 units
ART 102. Pictorial Perspective, 4 units
ART 210. Introduction to Printmaking, 4 units
ART 220. Introduction to Painting, 4 units
ART 230. Introduction to Sculpture, 4 units

The Major

	<i>Units</i>
ART 311. Relief and Intaglio I	4
ART 312. Lithography I	4
ART 321. Aqueous Painting I	4
ART 322. Oil Painting I	4
ART 330. Modeling I	4
ART 332. Carving I	4
ART 340. Art History I	4
ART 341. Art History II	4
Courses as approved by major adviser	16
Total	48

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN ART

FRESHMAN					
Fall	<i>Units</i>	Winter	<i>Units</i>	Spring	<i>Units</i>
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Phys. Science 100	4	Science	4	Science	4
Art 100	4	Art 101	4	Art 102	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ. 103	½
	16½		16½		16½
SOPHOMORE					
Science	4	Music 100	4	Creative Arts 100	4
Philosophy 201	4	Mathematics	4	Speech 200	4
Psychology 201	4	Pol. Science 201	4	Pol. Science 202	4
Art 210	4	Art 220	4	Art 230	4
Phys. Educ. 201	½	Phys. Educ. 202	½	Phys. Educ. 203	½
	16½		16½		16½
JUNIOR					
Art 311	4	Art 312	4	Art 321	4
Art 330	4	Art 332	4	Art 322	4
Art 340	4	Art 341	4	Course in major	4
Elective	4	Elective	4	Elective	4
	16		16		16
SENIOR					
Course in major	4	Course in major	4	Course in major	4
Electives	12	Electives	12	Electives	12
	16		16		16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

DEGREE MINOR IN ART

(36 units, to include at least 12 upper division units)

Lower Division

- ART 100. Introduction to Art, 4 units
- ART 101. Anatomical Drawing, 4 units
- ART 102. Pictorial Perspective, 4 units
- ART 210. Introduction to Printmaking, 4 units
- ART 220. Introduction to Painting, 4 units
- ART 230. Introduction to Sculpture, 4 units

Upper Division

- ART 340, 341, 342. Art History, 12 units

TEACHING CREDENTIALS *

Majors in art seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree major in art.
2. *Single Subject*: in addition to the degree major, complete 9 units in G credit courses in art taken as postbaccalaureate work, as recommended by the major adviser and approved by the credential adviser.
Diversified: in addition to the degree major, complete 9 units in upper division courses in a creative arts discipline other than art, as recommended by an adviser in that creative arts discipline and approved by the credential adviser.
3. Secondary credential candidates must receive approval of the Art Department as to subject matter competence.

Minors in art seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in art.
2. Secondary credential candidate must receive approval of the Art Department as to subject matter competence.

COURSE DESCRIPTIONS**DRAWING****Lower Division****ART 100. Introduction to Art (4) F, W**

Drawing as a means of visual expression; observation and representation of still life and the human form; various drawing media will be used.

ART 101. Anatomical Drawing (4) W

Structure of individual objects; emphasis on the human form. Further development of calligraphic techniques.

ART 102. Pictorial Perspective (4) S

Forms and their relationship to pictorial space. Various space concepts as related to the development of a personal pictorial language.

Upper Division**ART 300. Life Drawing (4) F**

Further investigation of visual language. Problems in figure and drapery, still life, and landscape, using a variety of drawing media. Emphasis on group studies and composition. May be repeated for a total of 8 units. Prerequisite: ART 101 or 102.

* See Division of Education, pages 83-94.

Art

ART 301. Figure Drawing (4) S

Drawing the draped and undraped figure with an emphasis on proportion, structure, anatomy, and compositional possibilities; insertion and articulation of the bone, joint, and muscle structure. May be repeated for a total of 8 units. Prerequisite: ART 101 or 102.

PRINTMAKING

Lower Division

ART 210. Introduction to Printmaking (4) F

Fundamental theories and practices involved in the printmaking processes. Emphasis on materials, techniques, tools, and craftsmanship. (Formerly 362) Prerequisites: ART 101 and 102.

Upper Division

ART 311. Relief and Intaglio I (4) F

Relief and intaglio printmaking; emphasis on techniques and their relationship to the graphic image. Utilization of the techniques of etching, drypoint aquatint, engraving, and woodcuts. Prerequisite: ART 210.

ART 312. Lithography I (4) W

Lithographic printmaking; emphasis on techniques and their relationship to the graphic image. Utilization of the techniques of stone and metal printing. Prerequisite: ART 210.

ART 411. Relief and Intaglio II (4) S

Advanced problems and new techniques in intaglio printmaking, wood engraving; concentration on printing editions. May be repeated for a total of 8 units. Prerequisite: ART 311.

ART 412. Lithography II (4) S*

Advanced problems in lithographic printmaking; concentration on printing editions. May be repeated for a total of 8 units. Prerequisite: ART 312.

PAINTING

Lower Division

ART 220. Introduction to Painting (4) W

Fundamental theories and practices involved in the painting processes; emphasis on materials, techniques, tools, and craftsmanship. (Formerly 360)

Upper Division

ART 321. Aqueous Painting I (4) W

Techniques of aqueous painting including watercolor, casein, and egg tempera; concentration upon techniques as they relate to expression. Prerequisite: ART 220.

ART 322. Oil Painting I (4) S

Techniques of oil painting with emphasis on composition. Prerequisite: ART 220.

ART 421. Aqueous Painting II S

Advanced problems in aqueous painting with emphasis on the development of a personal language in watercolor, egg tempera, or casein. May be repeated for a total of 8 units. Prerequisite: ART 321.

ART 422. Oil Painting II (4) S*

Advanced techniques in oil painting; studio problems relating to the development of a personal language. May be repeated for a total of 8 units. Prerequisite: ART 322.

* Offered alternate years.

SCULPTURE**Lower Division****ART 230. Introduction to Sculpture (4) F**

Fundamental theories and practices involved in the modeling and carving process; emphasis on materials, techniques, tools, and craftsmanship. Prerequisites: ART 101 and 102.

Upper Division**ART 330. Modeling I (4) F**

The additive process as a sculptural discipline; emphasis on the human form. Various materials such as clay, plaster and metal. Practice in making armatures and in developing welding techniques. Prerequisite: ART 230.

ART 332. Carving I (4) W

The subtractive process as a sculptural discipline; emphasis on the human form in stone and wood. Further development in the use of wood carving and stone cutting tools. Prerequisite: ART 230.

ART 430. Modeling II (4) S

Advanced problems in the additive process; emphasis on complex sculptural compositions. Development of a personal plastic language. Advanced armature construction. May be repeated for a total of 8 units. Prerequisite: ART 330.

ART 432. Carving II (4) S*

Advanced problems in the subtractive process; emphasis on the development of a personal plastic language, stressing sensitivity to the unique qualities in various hard woods and stones. Hand and power tools; finishing processes. May be repeated for a total of 8 units. Prerequisite: ART 332.

ART HISTORY**Upper Division****ART 340. Art History I (4) F**

Analysis and interpretation of the visual arts and their historical development from prehistoric through Gothic; concentration upon painting and sculpture. (Formerly 325)

ART 341. Art History II (4) W

Analysis and interpretation of the visual arts and their historical development from the Renaissance through Rococo; concentration on painting and sculpture. (Formerly 326)

ART 342. Art History III (4) S

Analysis and interpretation of the visual arts and their historical development from the French academy to the present; emphasis on painting and sculpture. (Formerly 431)

ART 498. Individual Study (3-4) F, W, S

For the student capable of independent work and in need of advanced and specialized individual study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

GRADUATE**ART 598. Individual Study (3-5) F, W, S**

For qualified graduate student in need of advanced and specialized individual study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

CREATIVE ARTS**Lower Division****CREA 100. Structure and Meaning in the Arts (4) S**

The arts in their formal structure; emphasis on analysis of styles of expression. Prerequisites: ART 100 and MUS 100.

* Offered alternate years.

BIOLOGICAL SCIENCES

In the Division of Science and Mathematics

Assistant Professors: James C. Hanson, Head, and Glenn A. Hackwell
Professor: Steve J. Grillos

The College offers programs of study in the biological sciences for students seeking the Bachelor of Arts, Mathematics and Science with a major in biological sciences. These courses provide breadth and background in the natural sciences for the general student. The major programs are designed to prepare students for graduate work, careers in the biological sciences, and teaching.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

Biological sciences majors are to:

1. Complete the Requirements for the Bachelor of Arts Degree, pages 48-52.
2. Complete prerequisites to the major, page 62.
3. Complete the major of not less than 36 upper division units, including course requirements as specified for the major in the table on page 63.
4. Completion of a minor is not required.

DEGREE MAJOR IN BIOLOGICAL SCIENCES

Prerequisites to the Major

Courses in major field:

- BIOI. 101. Principles of Biology, 4 units
 ZOOL 102. Principles of Zoology, 4 units
 BOTY 103. Principles of Botany, 4 units

Courses in supporting fields:

- PHSC 100. Introduction to Natural Sciences, 4 units
 CHEM 101, 102. Principles of Chemistry, 8 units
 PHYS 101, 102. Principles of Physics, 8 units
 MATH 160. Statistics, 4 units

The Major

Courses in supporting field:

- * CHEM 327, 328. Organic Chemistry, 8 units

Courses in major field:

	<i>Concentration in Biology</i>	<i>Concentration in Zoology</i>
BIOL 322. General and Cellular Physiology.....	4	4
BIOL 332. Genetics	3	3
BIOL 334. Genetics Laboratory	1	1
BIOL 363. Ecology	4	4
BIOL 496. Seminar in Biology	3	3
ENTO 300. Principles of Entomology.....	4	4
Courses in botany as approved by major adviser...	8	4
Courses in zoology as approved by major adviser	8	16
* Courses as approved by major adviser	12-16	8-12
Total Units	47-51	47-51

* May be satisfied by courses at lower division level as approved by major adviser.

Biological Sciences

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN BIOLOGICAL SCIENCES

FRESHMAN					
Fall	Units	Winter	Units	Spring	Units
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Art 100	4	Music 100	4	Creative Arts 100	4
Phys. Science 100	4	Biology 101	4	Zoology 102	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ. 103	½
	16½		16½		16½
SOPHOMORE					
Psychology 201	4	Pol. Science 201	4	Pol. Science 202	4
Botany 103	4	Chemistry 101	4	Chemistry 102	4
Philosophy	4	Biology 332	3	Biology 363	4
Math 160	4	Biology 334	1	Physics 102	4
Phys. Educ. 201	½	Physics 101	4	Phys. Educ. 203	½
	16½	Phys. Educ. 202	½		16½
JUNIOR					
Chemistry 327	4	Chemistry 328	4	Biology Elective	4
Biology 322	4	Course in Botany	4	Course in Zoology	4
Course in Botany	4	or Zoology	4	Electives	8
or Zoology	4	Elective	8		
Speech 200	4				
	16		16		16
SENIOR					
Entomology 300	4	Biology 496	1	Biology 496	1
Biology 496	1	Biology Elective	4	Biology Elective	5
Course in Zoology	4	Electives	8-11	Electives	8-11
Electives	4-7				
	13-16		13-16		13-16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

DEGREE MINOR IN BIOLOGICAL SCIENCES

(28 units, to include at least 16 units in upper division)

Lower Division

Course in supporting field:

PHSC 100. Introduction to Natural Sciences, 4 units

Courses in minor field:

BIOL 100. Principles of Biology, 4 units

ZOOL 102. Principles of Zoology, 4 units

BOTY 103. Principles of Botany, 4 units

Upper Division

BIOL 332. Genetics, 3 units

BIOL 363. Ecology, 4 units

Courses as approved by minor adviser, 9 units

Biological Sciences

TEACHING CREDENTIALS †

‡ Majors in biological sciences seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree major in biological sciences.
2. Secondary credential candidates must receive approval of the Biological Sciences Department as to subject matter competence.

Minors in biology for elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in biology; plus additional courses in biology to total a minimum of 30 units as recommended by the minor adviser and approved by the credential adviser.
2. Secondary credential candidates must receive approval of the Biological Sciences Department as to subject matter competence.

PREPARATION FOR GRADUATE STUDY

It is recommended that the student who intends to seek an advanced degree in graduate study select a minor in the physical sciences and complete at least a college level one-year sequence or equivalent in French or German.

COURSE DESCRIPTIONS

BIOLOGY

Lower Division

BIOL 101. Principles of Biology (4) W

Basic biological phenomena common to all living organisms. Cellular and molecular levels of organization, genetics and the mechanisms of heredity in organic evolution, and reproduction and development from the molecular to gross structural levels. (Lecture, 3 hours; laboratory, 3 hours) No prerequisites; PHSC 100 is recommended.

Upper Division

BIOL 322. General and Cellular Physiology (4) F

Physico-chemical properties of protoplasm, permeability, metabolism and nuclear-cytoplasmic interaction. (Lecture, 2 hours; laboratory, 6 hours) Prerequisite: One year college level biology or equivalent; CHEM 101 and 102 are recommended.

BIOL 332. Genetics (3) W

Mechanisms of inheritance and relationships of heredity to fundamental biological problems, as well as application to practical problems including those of human society. (Lecture, 3 hours) Prerequisite: One course in college level biology or equivalent.

BIOL 334. Genetics Laboratory (1) W

Laboratory experiments to demonstrate mendelian principles, sex-linkage, sex determination, gene interaction, and chromosome mapping. (Laboratory, 3 hours) Prerequisite: BIOL 332 or concurrent enrollment.

BIOL 363. Ecology (4) S

Basic interrelationships of plants and animals within their physical and biological environments. (Lecture, 3 hours; laboratory, 3 hours; field trips) (Formerly BIOL 463) Prerequisite: Two quarters college level biology or equivalent.

† See Division of Education, pages 83-94.

‡ Secondary credential candidate with a degree major in biological sciences is advised to complete a degree minor in the physical sciences.

BIOL 381. Evolution (3) F

Basic concepts of evolutionary theory, including evidence and mechanisms that underlie and support the evolution of living things. (Lecture, 2 hours; discussion, 1 hour) (Formerly BIOL 333) Prerequisite: One quarter college level biology or equivalent; BIOL 332 is recommended.

BIOL 451. Histological and Cytological Techniques (3) Not Offered 1965-66

Principles and practice of preparing tissues for microscopic study. (Lecture, 1 hour; Laboratory, 6 hours) (Formerly ZOOL 451) Prerequisite: Two years of college level biology or equivalent.

BIOL 495. History and Philosophy of Biology (3) Not Offered 1965-66

Rise and development of biological theories and laws. (Lecture, 3 hours) Prerequisite: One year college level biology or equivalent.

BIOL 496. Seminar in Biology (1) F, W, S

Presentations and discussions of selected biological phenomena through study of biological literature. (Discussion, 1 hour) May be repeated for a total of 4 units. Prerequisite: Consent of instructor.

BIOL 498. Individual Study (3-4) F, W, S

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

BOTANY**Lower Division****BOTY 103. Principles of Botany (4)**

Basic botanical principles common to the plant kingdom. Principles of plant biology and the major types and groups of plants; physiology, anatomy, ecology, classification, and evolution of plants. (Lecture, 3 hours; laboratory, 3 hours; field trips) No prerequisite; PHSC 100 and BIOL 101 recommended.

Upper Division**BOTY 311. Morphology of Non-vascular Plants (4) F**

Comparative study of structure, development, ecology, and evolutionary importance of algae, fungi, lichens, and bryophytes. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisite: BOTY 103 or equivalent.

BOTY 312. Morphology of Vascular Plants (4) W

Comparative study of structure, development, ecology, and evolutionary importance of club mosses, horsetails, ferns, and seed plants. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisite: BOTY 103 or equivalent.

BOTY 370. Flowering Plants (4) S

Structure, kinds, taxonomic relationships, and classification of local flowering plants with practice in their collection and identification. (Lecture, 2 hours; laboratory, 6 hours; field trips) (Formerly BOTY 301) Prerequisite: BOTY 103 or equivalent.

BOTY 410. Plant Anatomy (4) F

Microscopic study of structure and development of plant tissues, with emphasis upon tissues of seed plants. (Lecture, 3 hours; laboratory, 3 hours) Prerequisites: BOTY 103 and 312, or equivalent.

Biological Sciences

BOTY 420. Plant Physiology (4) W

Selected topics pertaining to metabolism, nutrition, and growth of plants. (Lecture, 3 hours; laboratory, 3 hours) (Formerly BOTY 321) Prerequisite: BOTY 103 or equivalent; organic chemistry is recommended.

ENTOMOLOGY

Upper Division

ENTO 300. Principles of Entomology (4) F

Classification, life history, structure, and basic physiology of insects. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: BIOL 101 or ZOOL 102, or equivalent.

ENTO 374. Insect Classification (3) S

Survey of major groups of insects, with classification to family level; taxonomic categories and procedures, nomenclature and literature. (Lecture, 1 hour; laboratory, 6 hours; field trips) Prerequisite: ENTO 300 or consent of instructor.

ENTO 422. Insect Physiology (4) W

Consideration of nutrition, digestion, excretion, circulation, respiration, detoxification processes, and the nervous and hormonal systems of insects. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: ENTO 300 or consent of instructor.

ENTO 495. Selected Topics in Entomology (Topic to be specified in the Class Schedule) (2-4) F, W, S Not Offered 1965-66

Development of a selected branch of entomology. Topics vary each term, thus may be repeated for credit. Prerequisite: One quarter college level entomology or consent of instructor.

ZOOLOGY

Lower Division

ZOOL 102. Principles of Zoology (4) S

Introduction to basic zoological principles common to the animal kingdom. Principles of animal biology and an account of major types and groups of animals. Physiology, anatomy, ecology, classification and evolution of animals. (Lecture, 3 hours; laboratory, 3 hours; field trips) No prerequisite; PHSC 100 and BIOL 101 recommended.

ZOOL 212. Comparative Anatomy of Vertebrates (4) F '66

Comparative study of microanatomy and gross morphology of organ systems in representative vertebrates. (Lecture, 2 hours; laboratory, 6 hours) Prerequisite: ZOOL 102 or equivalent.

Upper Division

ZOOL 313. Vertebrate Embryology (4) F '65

Comparative study of microanatomy and development of several representative vertebrate forms. (Lecture, 2 hours; laboratory, 6 hours) Prerequisite: ZOOL 102 or equivalent.

ZOOL 423. Comparative Animal Physiology (5) S

Comparative study of physiology of organ systems among major animal groups. (Lecture, 3 hours; laboratory, 6 hours) Prerequisite: ZOOL 102 or equivalent; BIOL 332, CHEM 327 and 328 are recommended.

Biological Sciences

ZOOL 443. Invertebrate Zoology (5) W

Structure, classification, distribution, and life histories of invertebrates. (Lecture, 3 hours; laboratory, 6 hours; field trips) Prerequisite: Two years of college level biology or equivalent.

ZOOL 444. General Parasitology (4) Not Offered 1965-66

Parasitism, with emphasis on parasites of man. (Lecture, 2 hours; laboratory, 6 hours) Prerequisite: ZOOL 443 or consent of instructor.

ZOOL 453. Cellular Biology (3) S

Theory and studies of cellular phenomena dealing with chromosomes in genetics and evolution, physiology of gene, and mechanisms of development. (Lecture, 2 hours; laboratory, 3 hours) Prerequisite: One year of upper division biology; CHEM 327 and 328 are recommended.

ZOOL 495. Selected Topics in Zoology (Topics to be specified in the Class Schedule) (2-4) F, W, S Not Offered 1965-66

Development of a selected branch of zoology. Topics vary each term, thus may be repeated for credit. Prerequisite: Two years of zoology or consent of instructor.

Division of Business Administration

Assistant Professor: Thomas P. Barrett, Chairman
Professor: Kenneth G. Young

The Division of Business Administration offers curricula designed to provide (1) professional preparation for those planning to seek careers in the business community; (2) a firm educational foundation for those planning to undertake graduate study; (3) a sound education in business subjects for those planning to enter the teaching profession. To accomplish these objectives, the curricula offered by the Division of Business Administration are specifically designed to give each student:

1. A broad, liberal education.
2. A basic understanding of the operation of a business enterprise.
3. An understanding of the environment in which business exists, and of which it is a part.
4. A degree of specialized training in a selected area of concentration.

RECOMMENDED LOWER DIVISION PREPARATION

Prospective Business Administration majors should emphasize General Education during the first two years, thus laying a foundation upon which the professional program can be built.

Elective courses should be chosen in the following areas: behavioral sciences, economics, English and mathematics.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

Students seeking the Bachelor of Arts, Business Administration must:

1. Complete the Requirements for the Bachelor of Arts Degree, page 48.
2. Complete prerequisites to the major, page 68.
3. Complete the major of not less than 48 upper division units, page 69.
4. Completion of a minor is not required.

DEGREE MAJOR IN BUSINESS ADMINISTRATION

Prerequisites to the Major

Courses in major field:

BUS 211, 212. Principles of Accounting, 8 units

Courses in supporting fields:

ENGL 101. Composition and World Literature I, 4 units

ECON 250, 251. Principles of Economics, 8 units

SPCH 200. Speech Communication, 4 units

MATH 110. College Algebra and Trigonometry, 4 units

MATH 160. Statistics, 4 units

Business Administration

The Major

Courses in supporting fields:

ECON 331. Managerial Economics, 4 units

<i>Accounting Concentration</i>	<i>Administration Concentration</i>
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Courses in major fields:

BUS 301. Readings in Business Administration ..	—	4
BUS 303. Business and its Environment	4	4
BUS 311. Intermediate Accounting I	4	—
BUS 312. Intermediate Accounting II	4	—
BUS 313. Managerial Accounting	—	4
BUS 314. Cost Analysis I	4	—
BUS 322. Business Finance I	4	4
BUS 323. Business Finance II	4	4
BUS 331. The Administrative Process	4	4
BUS 334. Administrative Organizations	4	4
BUS 341. Basic Marketing	4	4
BUS 408. Business Policy	4	4
BUS 411. Advanced Accounting	4	—
BUS 431. Personnel Administration	—	4
BUS 433. Production Administration	—	4
BUS 435. Administrative Action	—	4

One course from the following as approved by major adviser:

BUS 315. Cost Analysis II

BUS 317. Legal Factors in Business

BUS 412. Auditing

BUS 414. Income Tax Accounting	4	—
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Total Units	48	48
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SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN BUSINESS ADMINISTRATION

Concentration in Accounting

FRESHMAN

Fall	Units	Winter	Units	Spring	Units
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Music 100	4	Art 100	4	Creative Arts 100 ..	4
Phys. Science 101	4	Science	4	Science	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ. 103	½
	16½		16½		16½

SOPHOMORE

Science	4	Elective	4	Elective	4
Economics 250	4	Economics 251	4	Speech 200	4
Psychology 201	4	Business 211	4	Business 212	4
Math 110	4	Philosophy 201	4	Math 160	4
Phys. Educ. 201	½	Phys. Educ. 202	½	Phys. Educ. 203	½
	16½		16½		16½

Business Administration

Fall		JUNIOR Winter		Spring	
	Units		Units		Units
Business 311	4	Business 312	4	Business 303	4
Business 331	4	Business 322	4	Business 314	4
Economics 331	4	Business 334	4	Business 323	4
Electives	4	Business 341	4	Electives	4
	<hr/> 16		<hr/> 16		<hr/> 16
SENIOR					
Business 411	4	Pol. Science 201	4	Pol. Science 202	4
Electives	12	Course in major	4	Business 408	4
	<hr/> 16	Electives	6-8	Electives	4-8
			<hr/> 14-16		<hr/> 12-16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN BUSINESS ADMINISTRATION

Concentration in Administration

FRESHMAN					
Fall		Winter		Spring	
	Units		Units		Units
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Art 100	4	Music 100	4	Creative Arts 100	4
Phys. Science 100	4	Science	4	Science	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ. 103	½
	<hr/> 16½		<hr/> 16½		<hr/> 16½
SOPHOMORE					
Math 110	4	Elective	4	Elective	4
Economics 250	4	Economics 251	4	Speech 200	4
Psychology 201	4	Business 211	4	Business 212	4
Science	4	Philosophy 211	4	Math 160	4
Phys. Educ. 201	½	Phys. Educ. 202	½	Phys. Educ. 203	½
	<hr/> 16½		<hr/> 16½		<hr/> 16½
JUNIOR					
Business 301	1	Business 301	1	Business 301	1
Business 313	4	Business 322	4	Business 303	4
Business 331	4	Business 334	4	Business 323	4
Economics 331	4	Business 341	4	Business 433	4
Elective	3	Elective	3	Elective	3
	<hr/> 16		<hr/> 16		<hr/> 16
SENIOR					
Business 301	1	Business 435	4	Business 408	4
Business 431	4	Pol. Science 201	4	Pol. Science 202	4
Electives	10	Electives	6-8	Electives	6-8
	<hr/> 15		<hr/> 14-16		<hr/> 14-16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

Business Administration

DEGREE MINOR IN BUSINESS ADMINISTRATION

(30 units, to include at least 24 units in upper division)

Lower Division

Course in major field:

BUS 211. Principles of Accounting, 4 units

Courses in supporting field:

ECON 250, 251. Principles of Economics, 8 units

Upper Division

Course in supporting field:

ECON 331. Managerial Economics, 4 units

Courses in major field:

BUS 301. Readings in Business Administration, 2 units

BUS 303. Business and its Environment, 4 units

BUS 313. Managerial Accounting, 4 units

BUS 322. Business Finance I, 4 units

BUS 334. Administrative Organizations, 4 units

BUS 341. Basic Marketing, 4 units

BUS 441. Marketing Institutions, 4 units

TEACHING CREDENTIALS

Prospective business education teachers who are seeking the Secondary Teaching Credential are advised to complete a minor in Business Administration (see requirements above) and a major in the social sciences. A major in Business Administration is not recommended for secondary school teachers. See Division of Education, pages 83-94.

COURSE DESCRIPTIONS

Lower Division

BUS 211. Principles of Accounting I (4) W Not offered 1965-66

An introduction to the principles of analyzing, recording, summarizing, communicating, and interpreting business data. Prerequisite: Sophomore standing.

BUS 212. Principles of Accounting II (4) S Not Offered 1965-66

Continuation of BUS 211; introduction to the use of accounting information in solving business problems. Prerequisite: BUS 211.

Upper Division

BUS 301. Readings in Business Administration (1) F, W, S

Directed readings on selected broad issues in Business Administration. Topics change each quarter. May be repeated for a maximum of 6 units. Prerequisite: Consent of instructor.

BUS 303. Business and its Environment (4) S

Continuing interaction and adaptation of business and its legal, economic, political, and social environment. Prerequisite: Consent of instructor.

BUS 311. Intermediate Accounting I (4) F

Accounting theory, development of accounting principles, and their application to income determination and presentation of financial position for the business firm. Prerequisite: BUS 211 and 212.

Business Administration

BUS 312. Intermediate Accounting II (4) W

A continuation of Intermediate Accounting I with particular emphasis on accounting for facilities investment, borrowed and equity capital, and managerial analysis of financial data. Prerequisite: BUS 311 or consent of instructor.

BUS 313. Managerial Accounting (4) F

Analysis and use of accounting and financial data by management for planning, control and decision making. Primarily designed for student who is pursuing a concentration in administration; credit not applicable to concentration in accounting. Prerequisites: BUS 211 and 212.

BUS 314. Cost Analysis I (4) S

Principles and objectives of cost accounting, including budgeting, estimated and standard costs, distribution and administrative costs, differential costs, profit planning, direct costs, and pricing policies. (Formerly 316) Prerequisites: BUS 211 and 212.

BUS 315. Cost Analysis II (4) F*

Continuation of BUS 314; emphasis on production and interpretation of cost data. Prerequisite: BUS 314.

BUS 317. Legal Factors in Business (4) F*

Law of business; emphasis on laws relating to personal property, bailments, negotiable instruments, partnerships, corporation, real property and insurance. Prerequisite: BUS 303.

BUS 322. Business Finance I (4) W

Problems of business financial management. Finance function, sources and uses of funds, capital structure. Prerequisites: ECON 331; BUS 311 or 313.

BUS 323. Business Finance II (4) S

Continuation of Business Finance I. Analysis of alternative security issues, dividend policy, leasing, cost of capital, long-term financing, mergers, recapitalization, reorganization. Prerequisite: BUS 322.

BUS 331. The Administrative Process (4) F

The nature of administration, its role, responsibilities, and functions. Administration is treated as a distinct activity applicable to all types of organizations—not just the business organization. Prerequisite: Consent of instructor.

BUS 334. Administrative Organizations (4) W

Formal and informal organizations: their functions, structure and behavior. The organization is treated as the framework of administration. Prerequisite: BUS 331.

BUS 341. Basic Marketing (4) W

Marketing process with emphasis on the management point of view. Consideration is given to role played by marketing in the economy, dynamics of consumer motivation and behavior, and problems confronted by the business firm in establishing an overall marketing program. Prerequisites: ECON 250, 251 and PSYC 201.

BUS 408. Business Policy (4) F, S

Problems of the business enterprise from standpoint of chief executive. Consideration of major company objectives, policies, and programs. Prerequisite: Completion or concurrent enrollment in all other courses required for business major.

* Offered alternate years.

Business Administration

BUS 411. Advanced Accounting (4) F

Accounting principles applied to accounting for partnership, installment sales, consignments, insolvency, estates, trusts, and business combinations. Prerequisite: BUS 312.

BUS 412. Auditing (4) S

Standards and procedures broadly applied to examination of financial statements, including a consideration of field of public accounting, professional ethics, internal controls, preparation of working papers, and audit reports. Prerequisites: BUS 312, and 315.

BUS 414. Income Tax Accounting (4) W

History and philosophy of federal income tax law and regulations and procedures for determining income tax liability of individuals and business firms. Prerequisites: BUS 211, and 212.

BUS 431. Personnel Administration (4) F

Policies and practices designed to provide and maintain human resources of the organization. Job and manpower requirements, recruitment, selection and training, performance appraisal, wage and salary administration, personnel audits, etc. Prerequisite: BUS 331.

BUS 433. Production Administration (4) S

Production problems of a managerial nature: production planning and control, product development, simplification and standardization, procurement, materials handling, methods improvement, impact of technological change. Prerequisites: BUS 331, and ECON 331.

BUS 435. Administrative Action (4) W

Development of managerial skills in areas of decision making, communications, and leadership. Extensive use of case problems. Prerequisite: BUS 331 or consent of instructor.

BUS 441. Marketing Institutions (4) S *

Wholesale and retail institutions: role and functions each performs in national economy in distribution of goods from producer to consumer. Prerequisite: BUS 341.

BUS 443. Sales Management (4) S *

Planning, direction, and control of sales personnel and sales promotion activities. Sales management is approached as an integral element of overall marketing program of a firm. Prerequisite: BUS 341.

* Offered alternate years.

Communication Arts and Sciences

In the Division of Humanities

Associate Professors: Max C. Norton, Head, and Randall C. Ruechelle

Assistant Professor: Daniel M. Witt

The College offers the degree, Bachelor of Arts, Humanities, with a major in speech-drama. In addition, it provides a curriculum designed to develop a substantial background in theory and function of oral communication and the art of oral expression to serve the following academic and professional needs:

1. To provide the general student in liberal arts with an opportunity to increase his understanding of the theories and processes of oral communication and of the skills in the art of oral expression.
2. To provide opportunities through both speech and drama for creative and cultural expression.
3. To provide specialized knowledge in communication arts and sciences for students who plan to enter various professional programs such as elementary and secondary education, clinical speech pathology and audiology, mass communications, social welfare, law, and business.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

Speech-drama majors are to:

1. Complete the Requirements for the Bachelor of Arts Degree, page 48.
2. Complete prerequisites to the major, page 74.
3. Complete the major of not less than 51 upper division units, page 74.
4. Complete a minor to be selected in consultation with the major adviser.

DEGREE MAJOR IN SPEECH-DRAMA *

Prerequisites to the Major

SPCH 200. Speech Communication, 4 units

One of the following as approved by the major adviser:

SPCH 210. Discussion

SPCH 240. Oral Interpretation

DRAM 220. Introduction to Theatre, 4 units

The Major

	<i>Units</i>
SPCH 300. Phonetics	4
SPCH 305. General Semantics	4
SPCH 312. Speech Composition	4
SPCH 364. Speech Science	3

* If courses in drama are not included, it is a degree major in speech.

Speech-Drama

The Major	Units
SPCH 400. Communication Theory	4
SPCH 410. Group Communication	4
Courses for concentration in general speech as approved by major adviser and selected from SPCH 340, 341, 361, 412, 414, 415, 416, DRAM 320, 421; or courses for concentration in communication science as approved by major adviser and selected from SPCH 340, 341, 360, 361, 461, 462, 463, 464, 467	28
Total	51

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN SPEECH-DRAMA

Fall		WINTER		Spring	
	Units		Units		Units
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Phys. Science 100	4	Science	4	Science	4
Music 100	4	Art 100	4	Creative Arts 100	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ. 102	½
	16½		16½		16½
SOPHOMORE					
Speech 200	4	Mathematics	4	Philosophy 201	4
Psychology 201	4	Pol. Science 201	4	Pol. Science 202	4
Science	4	Electives	8	Speech 210, 240, or elective	4
Drama 220 or elective	4	Phys. Educ. 202	½	Elective	4
Phys. Educ. 201	½			Phys. Educ. 203	½
	16½		16½		16½
JUNIOR					
Speech 300	4	Speech 312	3	Speech 364	4
Speech 305	4	Courses in major field	8	Speech 400	4
Course in major field	4	Elective	4	Course in major field	4
Elective	4			Elective	4
	16		15		16
SENIOR					
Speech 410	4	Course in major field	4	Course in major field	4
Course in major field	4	Electives	12	Electives	12
Electives	8				
	16		16		16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

Speech-Drama

DEGREE MINOR IN SPEECH-DRAMA *

(30 units, to include at least 22 units in upper division)

Lower Division

SPCH 200. Speech Communication, 4 units

One of the following as approved by minor adviser, 4 units:

DRAM 220. Introduction to Theatre

SPCH 210. Discussion

Upper Division

SPCH 300. Phonetics, 4 units

SPCH 305. General Semantics, 4 units

SPCH 312. Speech Composition, 4 units

SPCH 400. Communication Theory, 4 units

Six units as approved by minor adviser to constitute a concentration in general speech or communication science.

TEACHING CREDENTIALS †

Majors in speech-drama for elementary and secondary credentials must fulfill the following requirements:

1. Degree major in speech-drama.

2. *Single Subject*: if all courses in the degree major are in speech it is a single subject major; in addition to the degree major, complete 9 units in G credit courses in speech taken as postbaccalaureate work, as recommended by the major adviser and approved by the credential adviser.

Diversified: if 9 units in drama are included in the degree major it is a diversified major; if 9 units in drama are not included complete 9 upper division units in a humanities discipline other than speech, as recommended by an adviser in that humanities discipline and approved by the credential adviser.

3. Secondary credential candidate must receive approval of the Communication Art and Sciences Department as to subject matter competence.

Minors in speech-drama for elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in speech-drama.

2. Secondary credential candidate must receive approval of the Communication Art and Sciences Department as to subject matter competence.

RECOMMENDATIONS FOR SPECIALIZATION IN SPEECH AND HEARING HANDICAPPED

The College does not offer a full curricula leading to a credential specialization in Speech and Hearing Handicapped. However, it does offer a portion of the courses required for this credential. Students interested in pursuing this credential should complete the Requirements for Degree Major in Speech-Drama with electives in the communication sciences concentration. It is important that the student consult an adviser in the Department of Communications Arts and Sciences concerning his preparatory program of study so that it will articulate with the requirements at an institution offering the complete credential program.

* If courses in drama are not included, it is a degree minor in speech.

† See Division of Education, page 83.

Speech-Drama

The College also offers a portion of the courses required for Clinical Certification by the American Speech and Hearing Association.

CREDIT FOR SPEECH AND DRAMA PERFORMANCE COURSES

A maximum of 12 units in speech and drama activity courses, with no more than 6 units in lower division, may be applied toward fulfillment of degree or credential requirements.

COURSE DESCRIPTIONS

DRAMA

Lower Division

DRAM 220. Introduction to Theatre (4) F

Comprehensive view of theatrical art; the theater as a cultural force; fundamentals of dramaturgy and theatrical production.

Upper Division

DRAM 320. Play Production (1) F, W, S

Performance course. Practice in production of historical and contemporary drama; preparation of original scripts, exploration of styles of acting, directing and staging. Production of plays for public presentation. May be repeated for a total of 6 units. (Formerly 321)

DRAM 421. History of the Theatre (4) S

Historical analysis of dramatic and theatrical activity from Ancient Greece to present-day America.

SPEECH

Lower Division

SPCH 200. Speech Communication (4) F, S

Fundamentals of public speaking with emphasis on the nature of logical discourse. Functions and practices of oral communication applied to preparation and presentation of speeches.

SPCH 210. Discussion (4) W

Organization and conduct of group discussion. Designed to give the student an understanding of the processes of group problem solving and decision making.

SPCH 240. Oral Interpretation (4) S

Fundamentals of theory; techniques and practices in communicating from the printed page.

Upper Division

SPCH 300. Phonetics (4) F

Analysis of general American speech with emphasis on synthesis in connected discourse. Practice and drill with international phonetic alphabet. Application of sciences of phonetics to fields of general linguistics, dialects, pronunciation in foreign languages, speech correction, and language arts.

SPCH 305. General Semantics (4) F

Language and thought; practical analysis of verbal habits in human affairs. Emphasis on the formulations of General Semantics, which deal with such communication problems as conflict, confusion, prejudice; accuracy and precision in use of verbal symbols.

Speech-Drama

SPCH 312. Speech Composition (4) W

Practice in use of advanced rhetorical techniques. Factors determining audience reaction, methods of thought development and organization in establishing a basis for understanding problems inherent in communicating with audiences of various kinds. Prerequisite: Consent of instructor; SPCH 200 is recommended.

SPCH 340. Oral Interpretation of Children's Literature (4) W

Application of principles of oral communication to interpretation of children's literature. Types of children's literature, with emphasis on criteria for selection of literature for oral interpretation. Prerequisite: Consent of instructor; SPCH 240 is recommended.

SPCH 341. Oral Interpretation of Literature (4) F

Application of principles of oral communication as they pertain to interpretation of such literary forms as poetry, fiction and non-fiction prose, descriptive and scientific texts. Prerequisite: Consent of instructor; SPCH 240 is recommended.

SPCH 360. Language Behavior and Development (4) F

Patterning and development of normal speech and language in children considered from neurological, psychological and semantic standpoints; functional analysis of verbal behavior. Relationship of speech and language learning to perception, cognition, bilingualism and language change. (Formerly 465)

SPCH 361. Principles of Speech Correction (4) W

Introduction to principles of speech correction. Emphasis on roles of teacher and clinician in identification, diagnosis, and treatment of principal disorders of speech and language. Disorders of articulation, hearing, and stuttering; delayed language and speech development. Guided observations.

SPCH 364. Speech Science (3) S

Anatomical and physiological characteristics of normal speech and hearing mechanisms, and to fundamental acoustics of speech. Physiology and psychology of the speaking act.

SPCH 400. Communication Theory (4) S

Communication models; natural and formal language systems, contributions of theories of information, semantics, psycholinguistics, cybernetics, and general systems to the understanding of communication in human organizations. (Formerly 465) Prerequisite: SPCH 305 or 360, or consent of instructor.

SPCH 410. Group Communication (4) F

Principles and practice of group discussion, conference development and leadership as tools in a democracy. Procedures for effecting problem solving through group interaction in education, industry and community affairs. Prerequisite: SPCH 210 or equivalent.

SPCH 412. Theory of Persuasion (4) S

Theory of argument: evidence, reasoning, and processes of motivation. Systematic evaluation of issues, organization and preparation of materials intended to influence group opinion and action. Prerequisite: Consent of instructor; SPCH 200 is recommended.

SPCH 414. Rhetorical Theory (4) F

Rhetorical theory from classical to modern times. Influence of Aristotelian principles on development of rhetorical thought. Significant movements in development of rhetorical theory in France, Great Britain, and United States. (Formerly 413) Prerequisite: Senior standing or consent of instructor.

SPCH 415. History and Criticism of Rhetoric I (4) W *

Historical development of public address from ancient times through the Renaissance. Principles of rhetorical criticism, and their application to public addresses of historical significance. (Formerly 411) Prerequisite: SPCH 414 or consent of instructor.

SPCH 416. History and Criticism of Rhetoric II (4) S *

Rhetorical criticism of significant speeches of the past—1750 to present. Research techniques in rhetoric. Emphasis on content analysis, and factors influencing acceptance of ideas. (Formerly 411) Prerequisite SPCH 414 or consent of instructor.

SPCH 440. Reader's Theatre (4) W

Cutting, arranging, and interpreting plays for group presentation in the reader's theatre setting. Prerequisite: Consent of instructor.

SPCH 461. Communication Disorders I (3) S *

Symposia on disorders related to the symbolizing processes. Presented by members of the speech staff. Prerequisite: SPCH 361 or consent of instructor.

SPCH 462. Communication Disorders II (3) S *

Continuation of SPCH 461. Symposia on disorders related to functional and organic causes. Presented by members of the speech, psychology and science staffs. Prerequisite: SPCH 461 or consent of instructor.

SPCH 463. Principles of Audiology (4) W

Anatomy and pathologies of hearing mechanism. Acoustics and puretone testing techniques; theory and practice in group puretone screening tests; development and administration of hearing conservation programs; interpretation of hearing test results; basis for referral and follow-up procedures. Guided observations and practice in identification audiometry school age and adult populations. Prerequisite: Consent of instructor.

SPCH 464. Language Development of the Hard of Hearing (4) S

Theories of hearing. Interrelationship between hearing and pathology of the hearing mechanism; linguistic variables in the development of language of the deaf and hard of hearing. Acoustical, psychological and linguistic procedures in rehabilitation. Guided observations required. Prerequisite: SPCH 300 or consent of instructor.

SPCH 467. Structural Linguistics and Phonology (4) W

Phonemic, morphemic and syntactic linguistic structures. Comparative study of the phonemic structures of principal English, Romanic and Germanic dialects. Prerequisite: SPCH 300 or consent of instructor.

SPCH 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

* Offered alternate years.

Economics

In the Division of Social Sciences

Associate Professor: Frederick E. Kottke, Coordinator

The College offers a Bachelor of Arts, Social Sciences with an inter-departmental major in economics and any other discipline within the social sciences. Courses may be selected from five fields of specialization: (1) economic theory and thought, (2) labor economics, (3) public finance, (4) money and banking, and (5) international economics.

The curriculum in economics is designed to provide: (1) knowledge of the development of economic theories, principles, and policies for rational living in a self-governing democracy; (2) basic knowledge for economic analysis in business, labor, banking, and government; (3) preprofessional education for law school; (4) a fundamental knowledge of economics as preparation for teaching; and (5) specialization in economics for graduate level study.

REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

See Division of Social Sciences, Requirements for Bachelor of Arts, page 133.

DEGREE MINOR IN ECONOMICS

Twenty-four units approved by the minor adviser are required, including at least 16 units in upper division courses.

TEACHING CREDENTIALS *

Majors in social sciences seeking elementary and secondary credentials, see page 134.

Minors in economics seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in economics; plus additional courses in economics to total a minimum of 30 units, as recommended by the minor adviser and approved by the credential adviser.
2. Secondary credential candidate must receive approval of the minor adviser as to subject matter competence.

* See Division of Education, page 83.

COURSE DESCRIPTIONS**Lower Division****ECON 250. Principles of Economics I (4) F** Not offered 1965-66

Macroeconomics; scope, method, economic resources, monetary system, income determination, stability, public finance.

ECON 251. Principles of Economics II (4) W Not offered 1965-66

Microeconomics; price system, income distribution, international economics, economic systems.

Upper Division**ECON 300. Concepts of Economics (4) F**

Fundamental economic concepts—micro and macro—and their relationship to current economic issues; full employment, economic growth, economic stability, and economic underdevelopment. Credit not allowed for students who have had a course in economic principles.

ECON 310. Economic History of Western Civilization (4) W

Analysis of economic development of United States and Europe; economic theories of growth as applied to Western Culture. May be counted for credit in history major and minor.

ECON 330. Economic Fluctuations (4) F

Measurement of economic fluctuations; theories of economic cycles; economic forecasting. Prerequisite: Course in economic principles or consent of instructor.

ECON 331. Managerial Economics (4) F

Microeconomics and its application to the business firm; demand and supply analysis, price procedures, market structures, and case studies. Prerequisite: Basic course in economics or consent of instructor.

ECON 332. Money and Banking (4) S

Relation of money and credit to production and exchange; institutional analysis of banking; monetary policies for full employment and economic stability.

ECON 400. Intermediate Theory (4) S

Macro analysis; income levels, expenditures, prices, and employment; application to depression and inflation. Prerequisite: Course in economic principles or consent of instructor.

ECON 401. Economic Thought (4) W

Important ideas of major schools of economics and economists since 1776; classical economics through Keynesian economics.

ECON 405. Comparative Economic Systems (4) F

Capitalism and alternative economic systems; differences and comparative performance.

ECON 410. Labor Economics (4) F

The role of collective bargaining in a modern industrial state; labor legislation and jurisprudence; problems of unemployment and wage levels.

ECON 440. Economic Development (4) S

Measurement of economic growth; economic development of contemporary underdeveloped countries; case studies; economic theories and policies for accelerated growth.

Economics

ECON 441. International Trade (4) W

Concepts of international exchange; exchange rates, balance of payments, free versus regulated trade, and international investment.

ECON 442. Soviet Economics (4) W

Institutions and operating principles of the Soviet planned economy; economic performance to present; prospects for future.

ECON 454. Public Finance and Fiscal Policy (4) S

Principles, problems, and policies of public expenditure, credit, debt, budgeting, and intergovernmental fiscal relations.

ECON 498. Individual Study (3-4) F, S, W

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.



Division of Education

Associate Professor: Charles R. Farrar, Chairman

Professor: Lloyd E. Bevans

Associate Professors: Lloyd H. Ahlem, James C. Cole,

William F. McClintock, Haig A. Rushdoony

Assistant Professor: Lorna Swain

The College, in addition to curricula in the liberal arts, offers professional programs in education to prepare teachers for elementary and secondary schools. The Division of Education also offers courses which are applicable to credentials program in pupil personnel, supervision and administration.

PROFESSIONAL PROGRAMS IN EDUCATION

Professional programs in education are designed to help students achieve those competencies which are essential to effective teaching within the range of services authorized by the respective teaching credentials. Credential programs include study of the purposes of American education, the nature of modern society, human growth and development, the learning process, and instructional materials and techniques applicable at successive educational levels. Prior to undertaking course work in professional education leading to a credential, it is assumed that the student will have acquired a broad base of liberal arts academic preparation, including a major and a minor in selected fields of academic study. Required courses in professional education leading to elementary and secondary teaching credentials for students admitted to credential programs under this catalog are listed in the table on pages 88-89. The courses in this table are presently accepted by the California State Board of Education in fulfillment of certification regulations.*

CREDENTIAL PROGRAMS STARTED PRIOR TO SUMMER SESSION 1965

A student who desires to complete a credential program under regulations which were in effect prior to November 1, 1963 must file appropriate verification of eligibility with the College Credentials Office before seeking program advisement from a credential adviser. In developing a program of study the student should note carefully those courses which are being offered for the final time during the 1965-66 academic year.

Candidates for elementary and secondary credentials who were enrolled for the first time in a credential program during 1963-64 should complete programs of study which have been developed under the guidance of the credential adviser.

* The California State Board of Education is empowered to change credential requirements without prior notice. The College will make changes in programs leading to credentials whenever revisions are reported to it in the *California Administrative Code, Title 5, Education* or by other official notifications.

Education

QUARTER SYSTEM ADJUSTMENT

The student who commenced a credential program under the semester system is urged to consult his credential and academic advisers in selecting course work to satisfy remaining requirements.

GENERAL EDUCATION REQUIREMENTS FOR TEACHING CREDENTIALS

The student who intends to become a candidate for an elementary or secondary teaching credential is advised to select his General Education elective courses with utmost care. In planning the course of study to be completed in General Education the student must fulfill the requirements for General Education as stated on pages 48-50 of this catalog. In addition the student must fulfill the legal requirements for teaching credentials and is advised to include in his program of study courses recommended by the Division of Education as follows: *

Social Sciences

Recommended:

One anthropology *or* sociology course in cultural-social-institutional studies. (ANTH 201, SOCL 201)

Principles of Economics. (ECON 250 or 300)

Principles of physical and cultural geography.

Natural Sciences

No additional courses required.

Literature, Philosophy, and the Arts

Recommended:

ART 100, MUS 100, CREA 100.

One or more studio or performance courses in art and music.

One course in each of the following: modern philosophies, PHIL 301, 312, 313; children's literature, SPCH 340; and American literature, ENGL 241, 242, 341, 342, 344, 442.

Oral and Written Expression

Required by law:

One year of English, including a course in freshman composition with a grade of C or better. (ENGL 101, 102, 103)

Recommended:

Public speaking *and* oral interpretation. (SPCH 200, 240)

Psychology

Recommended:

Child or Adolescent Psychology. (PSYC 311, 312)

Health and Physical Education

Required by law:

A course or satisfactory score on a test covering narcotics, alcohol, and safety. (HLTH 101)

* Legal requirements are set forth in the *California Administrative Code, Title 5, Education*. Recommended courses are to develop skills and knowledge vital to effective classroom teaching. Proficiency in these areas is expected of teacher candidates.

Mathematics

Required by law:

A college level mathematics course (3 semester hours) is required for elementary teaching credential. (MATH 100 and 101)

ADMISSION TO CREDENTIALS PROGRAM *

To be eligible for admission to the elementary and secondary teaching credential program the fully matriculated student must have an accumulative grade point average of 2.25 (C+). An exception to this is made if the student has a 2.50 grade point average in his most recent 45 quarter units of course work.

Students who are eligible (see above) are advised to submit application for admission to the credential program no later than the third quarter of the junior year. An applicant with graduate standing (other than a graduate of the College) must request complete official transcripts, from each college and university at which he registered, to be sent directly to the Credentials Office. Printed informational materials and application forms may be obtained at the Credentials Office.

Students must be approved for admission to a credential program no later than the quarter prior to that in which they register for EDUC 412. Admission to the credentials program is prerequisite to: (1) placement in field work experiences, (2) recommendation by the College for issuance of a credential, (3) recommendation for renewal of a provisional credential, and (4) referral to and by the College placement service.

Policies pertaining to requirements and procedures for admission to the credentials program are formulated by the Credentials Admissions Committee (CAC) of the Division of Education. This committee reviews and acts on all applications for admission to the credentials program. Admission to a teaching credential program is approved when the student is adjudged qualified under standards set forth in the *California Administrative Code, Title 5, Education*. Section 41101 requires that each teacher candidate must be evaluated in terms of academic aptitude, scholarship, professional aptitude, physical fitness, fundamental skills, personality and character, and many-sided interests. (Detailed informational material is available in the Credentials Office.)

CONTINUANCE IN CREDENTIAL PROGRAM

Retention in a teaching credential program is based upon continuous satisfactory student performance as evaluated by the Credentials Admissions Committee. An overall grade point average of 2.5 must be maintained while in program.

* Students who currently hold valid regular teaching credentials and are not seeking another teaching credential may register for courses in education without approval for admission to the credential program.

Education

ADMISSION TO STUDENT TEACHING

To be eligible for admission to student teaching:

1. The student must have completed the baccalaureate degree, EDUC 411 and 412, and be approved by his credential adviser.
2. The student must have received a grade of C or better in each required professional course; a 2.50 grade point average in all required professional education courses leading to the credential for which he is a candidate.*
3. A secondary teaching credential candidate must be recommended in terms of his subject matter competence by the departments and/or divisions of his major and minor teaching fields. A 2.75 grade point average, *or* compensating abilities and skills as adjudged by the student's major and credential advisers, is required in the teaching major and minor.
4. A student who is a transfer from an institution approved by the California State Board of Education and who has completed all course requirements except student teaching must enroll for at least two quarters of study. In addition to two quarters of student teaching, one course in education must be elected during the first quarter of residence.

Application for student teaching must be submitted by the student to the coordinator of student teaching placement early in the quarter preceding the quarter in which student teaching is to commence.

Admission to student teaching is granted by the Credentials Admissions Committee following review of the recommendations received from the student's credential adviser. Adequacy of preparation, appropriate placement for student teaching, and the student's school and non-school activities are considered before placement in a school is made.

SUBSTITUTION OF TEACHING EXPERIENCE FOR STUDENT TEACHING

A candidate for a teaching credential who has prior teaching experience may request approval from the Credentials Admissions Committee (through his credential adviser) to substitute an equivalent number of units in approved electives for a portion or all of the student teaching unit requirement. Substitution will be considered in cases in which the candidate has:

1. Been admitted to the credentials program.
2. Completed courses prerequisite to student teaching.

* Courses completed as lower division professional education *or* courses completed more than 10 years prior to admission to the credentials program are not accepted toward fulfillment of professional education requirements.

3. Placed on file in the Credentials Office an official letter certifying satisfactory teaching experience as prescribed by law. (The law requires two years full-time teaching at an approved school verified as satisfactory by a school official.)
4. Teaching experience in school settings equivalent to standards established by the Division of Education for the placement of student teachers, *or* is currently teaching in the immediate vicinity of the College so that on-the-job evaluations may be carried out by appropriate faculty.

FINAL EVALUATION BY CREDENTIALS ADMISSIONS COMMITTEE

The teaching credential candidate's file and all required records are subject to final review prior to qualifying for recommendations by the Division of Education.

ACADEMIC MAJORS AND MINORS FOR TEACHING CREDENTIALS

Academic majors, leading to the bachelor of arts, as specified on page 87, will satisfy new credential regulations. Augmentations of degree minors to meet credential requirements should be planned with an adviser in the department of the minor and the credential adviser. Transfer students with programs including a non-academic major or minor are urged to consult their credential adviser immediately upon being admitted to the College.

Elementary credential candidates are urged to complete diversified majors, such as those listed on page 88. Teaching majors and minors for the secondary credential should be in subject areas commonly taught at the high school level. Subject emphases within a major or minor field should be planned in consultation with the academic and the credential advisers.

Under credential regulations which became effective November 1, 1963, a candidate for an elementary or secondary teaching credential must complete a major of at least 36 upper division or graduate quarter units and a minor of 30 quarter units. Either the major *or* the minor must be in an academic subject field.

The following bachelor of arts degree majors are acceptable as academic credential majors:

ACADEMIC MAJORS FOR CREDENTIALS

GENERAL ELEMENTARY		GENERAL SECONDARY	
Single Subject	Diversified	Single Subject	Interdepartmental
Art	Fine Arts: Art Biological Sciences	Art	Fine Arts: Art Biological Sciences
English	Humanities: English	English	Humanities: English
History	Social Sciences: History	History	Social Sciences: History

Education

GENERAL ELEMENTARY

Single Subject	Diversified
Mathematics	Sciences: Mathematics Music Physical Sciences Social Sciences Interdepartmental
	Social Sciences Divisional
Spanish	Humanities: Spanish
Speech	Speech-Drama

GENERAL ELEMENTARY

Single Subject	Interdepartmental
Mathematics	Sciences: Mathematics Music Physical Sciences Social Sciences Interdepartmental: History or Political Science
	Social Sciences Divisional: History or Political Science
Spanish	Humanities: Spanish
Speech	Speech-Drama

The following bachelor of arts degree minors are acceptable as academic single subject credential minors. Students completing a non-academic major must complete a 30-unit academic single subject minor which includes 18 upper division units. Transfer students with an interdepartmental minor should consult a credential adviser. Business Administration is the only "non-academic" degree program offered by the College.

ACADEMIC SINGLE SUBJECT MINORS FOR TEACHING CREDENTIALS

Art	Mathematics
Anthropology *	Music
Biology	Physics
Chemistry	Political Science *
Economics *	Psychology *
English	Sociology *
French	Spanish
History *	Speech

PROFESSIONAL EDUCATION PROGRAMS LEADING TO STANDARD TEACHING CREDENTIALS

Admission to the College is *not* admission to credential programs. Students are subject to the requirements of the catalog current at the time they are *admitted to a credential program*. Hence, students are urged to seek admission to credential programs during the third quarter of the junior year in order to plan the program of studies leading to the credential. The courses listed below are required to gain College recommendation for the Standard Teaching Credential, Elementary or Secondary emphasis. Students may elect certain professional education courses in addition to those listed.

Foundations	Elementary	Secondary
EDUC 411. Social Foundations of Education	4	4
EDUC 412. Educational Psychology	4	4

* Before electing to pursue this minor the student seeking a secondary credential should consult a credential adviser as to possibilities of student teaching and professional placement.

Curriculum and Instruction (Fifth Year)

Elementary Secondary

First Quarter

EDUC 425. Reading in Elementary Schools	4	-	
EDUC 426. Social Studies in Elementary Schools	4	-	
EDUC 441. Student Teaching in Elementary Schools I	4	-	
EDUC 448. Secondary School Curriculum I	-	4	
EDUC 471. Student Teaching in Secondary Schools I	-	4	

Second Quarter

EDUC 427. Language Arts in Elementary Schools	4	-	
EDUC 428. Mathematics in Elementary Schools	4	-	
EDUC 442. Student Teaching in Elementary Schools II	4	-	
EDUC 449. Secondary School Curriculum II	-	4	
EDUC 472. Student Teaching in Secondary Schools II	-	4	

Third Quarter

EDUC 443. Student Teaching in Elementary Schools III	10	-	
EDUC 473. Student Teaching in Secondary Schools III	-	8	

Total Units	42	32	
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RECOMMENDED PROFESSIONAL ELECTIVES

Credential candidates must demonstrate competency to teach subjects required by statute and by the regulations of the State Board of Education. Courses listed below will prepare them to teach in required subject areas. Credential advisers will assist students select professional electives from the following courses:

- EDUC 429. Science in Elementary Schools (4)
- EDUC 430. Health and P.E. in Elementary Schools (4)
- EDUC 431. Mathematics in Junior High Schools (4)
- EDUC 436. Selection and Use of Instructional Materials (4)
- EDUC 475. Tests, Measurement and Evaluation (4)
- EDUC 479. Counseling and Guidance (4)
- EDUC 480. Laws Relating to Children and Youth (3)
- EDUC 481. Educational and Occupational Information (4)
- EDUC 485. Exceptional Children and Youth (4)
- EDUC 604. Philosophies of Education (4)
- EDUC 605. Methods of Research in Education (4)
- EDUC 625. Advanced Teaching of Reading (4)
- MUS 335. Music in Elementary Schools (3)

COURSE DESCRIPTIONS

Lower Division

EDUC 200. Introduction to Teaching (3) Not offered 1965-66

Responsibilities and professional implications of teaching. Small group guidance conferences, and observations at each of the four levels of K-12. Recommended, but not required in the credential program. Prerequisite: Consent of instructor. Medical clearance must be obtained prior to public school observations.

Education

FOUNDATIONS AND SCHOOL SERVICES

Upper Division

EDUC 411. Social Foundations of Education (4) F, S

Society and education; historical trends, philosophical stances, and social phenomena influencing American public education; sociology of education. Satisfactory completion of this course is required for admission to, or continuation in, credential programs. (Formerly 311) Prerequisite: Consent of credential adviser; EDUC 200 recommended.

EDUC 412. Educational Psychology (4) W

Educational implications of growth and development; learning process; use of psychological data in teaching; assessment techniques; observation techniques. (Formerly 312) Prerequisites: EDUC 411; PSYC 311 or 312; *or* satisfactory performance on a proficiency test and consent of instructor.

EDUC 475. Tests, Measurement and Evaluation (4) W

Construction of tests for classroom use, selection and use of standardized tests, statistical measurement in education, evaluation of progress. New statewide testing program. Prerequisites: EDUC 411 and 412.

EDUC 479. Counseling and Guidance (4) S

Introduction to counseling and guidance; theory and techniques. Prerequisite: EDUC 475 or consent of credential adviser.

EDUC 480. Laws Relating to Children and Youth (3) * W

Educational and statutory regulations relating to children and youth. Emphasis on meeting needs of school personnel. (Formerly SOCL 426) Prerequisite: Consent of instructor.

EDUC 481. Educational and Occupational Information (4) * F

Sources of occupational information; community and nationwide surveys; job analyses; procedures for relating vocational and self-information. Emphasis on meeting needs of school counselors. (Formerly SOCL 427) Prerequisite: Consent of instructor.

EDUC 482. Counseling Theory (4) F

Directive, non-directive, eclectic, and neo-behaviorist theories. Demonstrations of accepted practices. Reviews of published research. (Formerly PSYC 525, 425) Prerequisite: Consent of instructor.

EDUC 485. Exceptional Children and Youth (4) S

Physical, intellectual, social, and emotional deviations among children and youth; community resources; educational adjustments. Prerequisite: Consent of instructor.

Graduate

EDUC 604. Philosophies of Education (4) W

Modern philosophies of education and their significance for contemporary educational practices. Recommended for experienced elementary and secondary teachers; a required course in advanced credential programs. (Formerly 603) Prerequisites: EDUC 411 or equivalent, and consent of instructor.

EDUC 605. Methods of Research in Education (4) *

Application of methods of research to problems in education. Emphasis on research methodology of the social and behavioral sciences. Prerequisites: Teaching experience and consent of instructor.

* Offered alternate years.

CURRICULUM AND INSTRUCTION

Upper Division

EDUC 425. Reading in Elementary Schools (4) F, S

Elementary reading program; application of reading skills to elementary school curriculum (K-9). Prerequisites: EDUC 411 and 412.

EDUC 426. Social Studies in Elementary Schools (4) F, S

Teaching social studies in grades K-9; curriculum, materials, and methods; preparation of teaching guide based on California social studies framework statement. Prerequisites: EDUC 411 and 412.

EDUC 427. Language Arts in Elementary Schools (4) W

Teaching language arts in grades K-9; curriculum, materials, and methods; development of children's speech and listening skills, oral and written expression, handwriting and spelling. Prerequisites: EDUC 411 and 412.

EDUC 428. Mathematics in Elementary Schools (4) W

Teaching mathematics in grades K-6; concepts and applications. Curriculum planning and demonstrations based on modern strands and techniques. Prerequisites: EDUC 411 and 412.

EDUC 429. Science in Elementary Schools (4) S

Teaching science in grades K-9; purposes, methods, and materials. Prerequisites: EDUC 411 and 412.

EDUC 430. Health and P.E. in Elementary Schools (4) *

Purposes, materials, activities, and techniques applicable in elementary school health and physical education. Prerequisites: EDUC 411 and 412.

EDUC 431. Mathematics in Junior High Schools (4) S

Teaching mathematics in grades 7-9; concepts and appreciations. Real number system. Curriculum planning and demonstrations based on modern strands and techniques. Recommended for secondary students with mathematics and science majors or minors. Prerequisites: EDUC 411 and 412.

EDUC 436. Selection and Use of Instructional Materials (4)

Use of libraries, instructional materials centers, and audio-visual materials and equipment. Preparation of resource files. Meets credential requirement in audio-visual. Prerequisites: EDUC 411 and 412.

EDUC 448. Secondary School Curriculum I (4) F, S

Purposes and trends in development of secondary school curricula, junior and senior high schools; contemporary curriculum studies; source of information, instructional materials; preparation of a guide to teaching in major field. Prerequisites: EDUC 411 and 412, and consent of credential adviser. Concurrent enrollment in EDUC 471 required.

EDUC 449. Secondary School Curriculum II (4) W

Refinement of guide to teaching in major field and preparation of guide for minor field. Prerequisites: EDUC 448, concurrent enrollment in EDUC 472 required.

* Offered alternate years.

Education

ADVANCED CURRICULUM AND INSTRUCTION

Graduate

EDUC 625. Advanced Teaching of Reading (4) W

Intended for both regular and special reading teachers in the elementary school. Emphasis on language and communications, remedial techniques, special grouping arrangements, enrichment reading, and latest developments in the reading field. Prerequisite: EDUC 425 or equivalent.

EDUC 645. Curriculum Planning and Development (4)

Planning and development of instructional programs; analysis of research data, social influences, roles of individuals and groups; evaluation of total programs. Prerequisite: Consent of credential adviser.

STUDENT TEACHING

Upper Division

EDUC 441. Student Teaching in Elementary Schools I (4) F, S

Supervised observation-participation and student teaching in public elementary school settings. A minimum of 20 clock hours of actual classroom teaching. Includes a weekly two hour on-campus meeting dealing with legally required instruction in elementary schools, the structure of public education, and student teaching problems. (Formerly 440) Prerequisites: Completion of or concurrent enrollment in EDUC 425 and 426.

EDUC 442. Student Teaching in Elementary Schools II (4) W

Supervised observation-participation and student teaching in public elementary school settings. A minimum of 20 clock hours of actual classroom teaching. Includes a weekly two hour on-campus meeting dealing with professional ethics and activities, use of instructional materials, and student teaching problems. (Formerly 440) Prerequisites: EDUC 441, completion of or concurrent enrollment in EDUC 427 and 428.

EDUC 443. Student Teaching in Elementary Schools III (10)‡ F, W, S

Supervised observation-participation and student teaching in public elementary school settings. A minimum of 140 clock hours of actual classroom teaching. Full-day assignments. Includes a weekly two-hour seminar dealing with teaching topics and problems. (Formerly 440) Prerequisite: Division of Education approval.

EDUC 471. Student Teaching in Secondary Schools I (4) F, S

Supervised observation-participation and student teaching in public secondary school settings. A minimum of 20 clock hours of actual classroom teaching in the major field. Includes a weekly two hour on-campus meeting dealing with legally required instruction in secondary schools, the structure of public education, and student teaching problems. (Formerly 460) Prerequisites: EDUC 411 and 412, completion of or concurrent enrollment in EDUC 448, and consent of credential adviser.

EDUC 472. Student Teaching in Secondary Schools II (4) W

Supervised observation-participation and student teaching in public secondary school settings. A minimum of 20 clock hours of actual classroom teaching in minor field. Includes a weekly two hour on-campus meeting dealing with profes-

‡ Students completing Student Teaching requirements under prior regulations will enroll in EDUC 441 or 442 and 443 in lieu of former EDUC 440 and 445 for the elementary credential; EDUC 471 or 472 and 473 in lieu of EDUC 460 and 461 for the secondary credential.

sional ethics and activities, use of instructional materials, and student teaching problems. (Formerly 460) Prerequisites: EDUC 471, and completion of or concurrent enrollment in EDUC 449.

EDUC 473. Student Teaching in Secondary Schools III (8) F, W, S**

Supervised observation-participation in student teaching in public secondary school settings. A minimum of 80 clock hours of actual classroom teaching in major and minor fields. Includes a weekly two hour on-campus seminar dealing with teaching topics and problems. (Formerly 460) Prerequisite: EDUC 472.

SEMINARS, SUPERVISION AND SPECIAL STUDIES

Graduate

EDUC 685. Seminar for Supervising Teachers—Elementary (3) W

Seminar for regularly credentialed elementary personnel who have demonstrated professional competence and are interested in supervising student teachers of the College. May be repeated for a total of 6 units. Prerequisites: Recommendation from district superintendent's office and consent of the instructor.

EDUC 686. Seminar for Supervising Teachers—Secondary (3) S

Seminar for regularly credentialed secondary personnel of proven professional competence interested in preparing for the supervision of student teachers of the College. May be repeated for a total of 6 units. Prerequisites: Recommendation from district superintendent's office and consent of instructor.

ADVANCED CREDENTIAL PROGRAMS

Graduate

EDUC 631. Advanced Counseling (4) S*

Depth counseling practices including commonly used methods of psychotherapy. Practice in techniques of counseling. (Formerly PSYC 528) Prerequisite: EDUC 482.

EDUC 632. Counseling and Community Resources (4) F

Dynamics of relationships of family, community, and school; community-wide services, agency-school relationships; family visiting, including conferences, interviews, referrals. Required for Pupil Personnel Credential. (Formerly SOCL 525) Prerequisite: EDUC 479, SOCL 313, or consent of instructor.

EDUC 633. Case Study and Techniques (4) W

Analysis of case studies; techniques and procedures used in case study; presentation of cases with critical analysis. Required for Pupil Personnel Credential. (Formerly SOCL 528) Prerequisite: Consent of instructor.

EDUC 635. Pupil Personnel Services Seminar (3) Final offering F 1965

Current practices in pupil personnel services. Organization and administration of pupil personnel services. Open to practicing personnel. Prerequisite: Consent of instructor.

EDUC 683. School Supervision and Administration Seminar (3) Final offering F 1965

Case study analysis of practical problems in school administration and supervision. Open to practicing principals, supervisors, and consultants.

** Students completing Student Teaching requirements under prior regulations will enroll in EDUC 441 or 442 and 443 in lieu of former EDUC 440 and 445 for the elementary credential; EDUC 471 or 472 and 473 in lieu of EDUC 460 and 461 for the secondary credential.

* Offered alternate years.

EDUC 694. Field Work

Actual work experience in field for which student is seeking credential. Joint supervision by district and college.

Work Experience: Pupil Personnel Services (3-6) W, S Final offering S 1966

Concurrent enrollment in EDUC 635 required. (Formerly 631) Prerequisite: Consent of credential adviser.

Work Experience: School Administration (3-6) W, S Final offering S 1966

Concurrent enrollment in EDUC 683 required. (Formerly 679) Prerequisite: Consent of credential adviser.

EDUC 698. Individual Study (2-4) F, W, S

For qualified graduate student in need of graduate course not offered during period of credentials transition. Consideration will be given only to students who have experienced unavoidable programming difficulties. Requests for such studies must be presented to the Chairman of the Division of Education no later than six weeks prior to registration. May be repeated for a total of 9 units. (Formerly 598)

English

In the Division of Humanities

Assistant Professors: James P. Jensen, Head, Lawrence D. Berkoben,
Lola V. Johnson, and Charles S. Hensley
Associate Professor: John M. Gill

The College offers the degree, Bachelor of Arts, Humanities, with a major in English. The Department of English offers courses in language, literature, and criticism which are designed not only to familiarize the student with a body of knowledge and learning, but also to prepare and encourage him to make informed and independent critical evaluations.

Although most courses in English fulfill college-wide needs regardless of the student's major, they also provide preparation for various professions. Certain subjects are indispensable for a proper grounding in English, but beyond these the student encounters a broad range of course selection to aid him in planning a program.

REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

English majors are to:

1. Complete the Requirements for the Bachelor of Arts Degree, page 48.
2. Complete prerequisites to the major, page 95.
3. Complete the major of not less than 48 upper division units, page 95.
4. Complete a minor to be selected in consultation with the major adviser.
5. One year of French or Spanish is recommended for the major.

DEGREE MAJOR IN ENGLISH

Prerequisites to the Major

ENGL 101, 102, 103. Composition and World Literature, 12 units

ENGL 201. Introduction to Poetry, 4 units

Two of the following as approved by major adviser, 8 units:

ENGL 221, 222, 223. Survey of English Literature

The Major

Units

Two consecutive courses in one of the following sequences as approved by major adviser:

ENGL 315, 316. Eighteenth Century Literature	
ENGL 331, 332, 333. Literature of the Romantic Period	
ENGL 335, 336. Literature of the Victorian Period	
ENGL 413, 414. Seventeenth Century Literature	8
One of the following courses as approved by major adviser:	
ENGL 405. Chaucer I	
ENGL 406. Chaucer II	4
ENGL 415. Milton	4

English

The Major

Two of the following courses as approved by major adviser:

ENGL 421. Shakespeare I	
ENGL 422. Shakespeare II	
ENGL 423. Shakespeare III	8
Courses as approved by major adviser	24
<hr/>	
Total	48

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN ENGLISH

FRESHMAN					
Fall	Units	Winter	Units	Spring	Units
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Phys. Science 100	4	Science	4	Science	4
Music 100	4	Art 100	4	Creative Arts 100	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ. 103	½
	<hr/>		<hr/>		<hr/>
	16½		16½		16½
SOPHOMORE					
Science	4	Mathematics	4	Speech 200	4
Philosophy 201	4	Pol. Science 201	4	Pol. Science 202	4
Psychology 201	4	Course in major	4	Course in major	4
English 201	4	Elective	4	Elective	4
Phys. Educ. 201	½	Phys. Educ. 202	½	Phys. Educ. 203	½
	<hr/>		<hr/>		<hr/>
	16½		16½		16½
JUNIOR					
Courses in major	8	Courses in major	8	Courses in major	8
Electives	8	Electives	8	Electives	8
	<hr/>		<hr/>		<hr/>
	16		16		16
SENIOR					
Courses in major	8	Courses in major	8	Courses in major	8
Electives	8	Electives	8	Electives	8
	<hr/>		<hr/>		<hr/>
	16		16		16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48

DEGREE MINOR IN ENGLISH

(44 units, to include at least 20 upper division units)

Lower Division

ENGL 101, 102, 103. Composition and World Literature, 12 units

ENGL 201, 202, 203. Introduction to Poetry, Fiction, and Drama, 12 units

Upper Division

Two consecutive courses in one of the following period sequences as approved by minor adviser, 8 units:

ENGL 315, 316. Eighteenth Century Literature

ENGL 331, 332, 333. Literature of the Romantic Period

- ENGL 335, 336. Literature of the Victorian Period
 ENGL 413, 414. Seventeenth Century Literature
 One of the following as approved by minor adviser, 4 units:
 ENGL 421, 422, 423. Shakespeare
 Two courses as approved by minor adviser, 8 units

TEACHING CREDENTIALS *

Majors in English for elementary and secondary credentials must fulfill the following requirements:

1. Degree major in English. ENGL 361 Advanced Composition-Usage is recommended as an elective.
2. *Single Subject*: in addition to the degree major, complete 9 units in G credit courses in English taken as postbaccalaureate work, as recommended by the major adviser and approved by the credential adviser.
Diversified: in addition to the degree major, complete 9 upper division units in a humanities discipline other than English as recommended by an adviser in that humanities discipline and approved by the credential adviser.
3. Secondary credential candidate must receive approval of the English Department as to subject matter competence.

Minors in English seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in English. ENGL 361 Advanced Composition-Usage is recommended as an elective.
2. Secondary credential candidates must receive approval of the English Department as to subject matter competence.

COURSE DESCRIPTIONS

Lower Division

ENGL 101. Composition and World Literature I (4) F

Practice in writing and rhetorical analysis, with collateral readings in the literature of the Western tradition. Homer, Sophocles, the Bible, Virgil, and St. Augustine.

ENGL 102. Composition and World Literature II (4) W

Practice in writing and rhetorical analysis, with collateral readings in the literature of the Western tradition. Dante, Chaucer, Montaigne, Voltaire, and Goethe.

ENGL 103. Composition and World Literature III (4) S

Practice in writing and rhetorical analysis, with collateral readings in the literature of the Western tradition. Wordsworth, Tennyson, Whitman, Dostoevsky, Yeats, and Camus.

ENGL 201. Introduction to Poetry (4) W

Basic theories, approaches, techniques, and terminology in the study of poetry.

ENGL 202. Introduction to Fiction (4) S

Basic theories, approaches, techniques, and terminology in the study of fiction.

ENGL 203. Introduction to Drama (4) Not offered 1965-66

Basic theories, approaches, techniques, and terminology in the study of drama.

* See Division of Education, pages 83-94.

English

- ENGL 221. Survey of English Literature I (4) F**
Beginnings to 1600; Beowulf, Chaucer, Spenser.
- ENGL 222. Survey of English Literature II (4) W**
1600 to 1800; Shakespeare, Milton, Dryden, Pope.
- ENGL 223. Survey of English Literature III (4) S**
1800 to the present; Wordsworth, Byron, Arnold, Tennyson, Yeats. (Formerly 222)
- ENGL 241. Survey of American Literature I (4) F**
Beginnings to 1900; Hawthorne, Howells, James.
- ENGL 242. Survey of American Literature II (4) W**
1900 to the present; Fitzgerald, Hemingway, Faulkner.
- Upper Division**
- ENGL 315. Eighteenth Century Literature I (4) W**
Literature of the Restoration; emphasis on Restoration drama and Dryden.
- ENGL 316. Eighteenth Century Literature II (4) S**
Literature of the Augustan period; emphasis on Pope, Swift, and Johnson.
- ENGL 321. English Novel I (4) F**
Defoe, Richardson, Fielding, Sterne, and Austen.
- ENGL 322. English Novel II (4) Not offered 1965-66**
Dickens, Thackeray, George Eliot, Hardy, and Conrad.
- ENGL 331. Literature of the Romantic Period I (4) W**
Blake and Keats. (Formerly 318)
- ENGL 332. Literature of the Romantic Period II (4) S**
Coleridge and Wordsworth. (Formerly 319)
- ENGL 333. Literature of the Romantic Period III (4) Not offered 1965-66**
Byron and Shelley. (Formerly 319)
- ENGL 335. Literature of the Victorian Period I (4) F**
Carlyle, Tennyson, Browning, Arnold. (Formerly 320)
- ENGL 336. Literature of the Victorian Period II (4) W**
Pre-Raphaelites, Swinburne, Housman, Hardy. (Formerly 320)
- ENGL 341. American Novel I (4) F**
Hawthorne, Melville, Howells, Crane, James.
- ENGL 342. American Novel II (4) S**
Fitzgerald, Hemingway, Faulkner, Steinbeck. (Formerly 341)
- ENGL 344. Nineteenth Century American Literature (Authors to be specified in Class Schedule) (4) F**
Intensified study of selected American authors of the period.
- ENGL 361. Advanced Composition-Usage (4) S**
Grammar, composition, and rhetorical analysis. (Formerly 260) Prerequisite: ENGL 101, 102, 103 or equivalent.

- ENGL 405. Chaucer I** (4) F
Troilus and Criseyde and the Minor Poems.
- ENGL 406. Chaucer II** (4) Not offered 1965-66
The Canterbury Tales.
- ENGL 413. Seventeenth Century Literature I** (4) F
Donne, Jonson, Webster, and Herbert. (Formerly 435)
- ENGL 414. Seventeenth Century Literature II** (4) W
Marvell, Vaughn, and Burton. (Formerly 413)
- ENGL 415. Milton** (4) W
Major poems and selected prose. (Formerly 435)
- ENGL 421. Shakespeare I** (4) F
Introduction to plays of various types.
- ENGL 422. Shakespeare II** (4) W
Comedies and histories. (Formerly 421)
- ENGL 423. Shakespeare III** (4) S
Tragedies and romances. (Formerly 422)
- ENGL 439. Modern British Literature I** (4) S
1900 to 1930; Joyce Lawrence, Yeats, Forster, Shaw. (Formerly 324)
- ENGL 440. Modern British Literature II** (4) Not offered 1965-66
Since 1930; Huxley, Green, Greene, Waugh, and others.
- ENGL 442. Twentieth Century American Literature (Authors to be specified in Class Schedule)** (4) F
Intensified study of selected American authors of the period.
- ENGL 481. Modern European Literature** (4) F
Gide, Mann, Kafka, Proust, Sartre, Camus.
- ENGL 482. Types of Dramatic Literature** (4) Not offered 1965-66
Dramatic forms with examples drawn from American, English, and European literature. (Formerly 455)
- ENGL 495. Advanced Studies in English** (Topic to be specified in *Class Schedule*) (4) W, S
Intensified study of a major figure, area, or topic in English. (Formerly 496)
May be repeated for a total of 8 units.
- ENGL 498. Individual Study** (3-4) F, W, S
For student capable of independent work and in need of advanced or specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.
- Graduate**
- ENGL 598. Individual Study** (3-5) F, W, S
For qualified graduate student in need of advanced or specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

Foreign Languages

In the Division of Humanities

Assistant Professors. Lowell G. Richardson and Huoi Joei Yu

The College offers the Bachelor of Arts, Foreign Languages, with a major in Spanish. Minors are offered in French and Spanish.

The program in foreign languages, French and Spanish, is designed to meet the needs of students who plan to teach foreign languages and literature, as well as those who have need for foreign languages to support an academic discipline or profession.

All upper division courses are conducted primarily in the foreign tongue. Use of the language laboratory permits the student to improve his conversational skills. Practice in reading and writing is given on an individual basis and in accord with the needs of the student.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

Spanish majors are to:

1. Complete the Requirements for the Bachelor of Arts Degree, page 48.
2. Complete prerequisites to the major, page 100.
3. Complete the major of not less than 28 upper division units, page 101.
4. Completion of minor is not required.

FOREIGN LANGUAGE COMPETENCY EXAMINATION

New students planning to enroll in a foreign language and who have high school or college background in the language must take a competency examination to insure proper placement in appropriate courses. Information concerning time and place of testing should be obtained from the Office of the Associate Dean, Counseling and Testing, two weeks prior to the registration period.

DEGREE MAJOR IN SPANISH

Prerequisites to the Major

Elementary Spanish, 12 units *
Intermediate Spanish, 12 units *

* The student who elects Spanish as a major or minor is assumed to have the high school equivalent of one year of college Spanish when he enters college. A student who can demonstrate equivalent preparation may be exempt from 4 to 24 units of the lower division requirements. Two years of college level Spanish or the equivalent is required for admission to upper division courses.

Foreign Languages

The Major	Units
Course in supporting field:	
SPCH 467. Structural Linguistics and Phonology, 4 units	
Courses in major field:	
SPAN 311. Composition and Conversation	4
SPAN 312. Advanced Style and Syntax	4
SPAN 441. Spanish Literature I	4
SPAN 442. Spanish Literature II	4
One of the following as approved by major adviser:	
SPAN 443. Spanish-American Literature I	
SPAN 444. Spanish-American Literature II	4
Courses as approved by major adviser	8
Total	28

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN SPANISH

FRESHMAN-SOPHOMORE

During 1965-66 the College does not offer lower division courses in Spanish. The major in Spanish is available to transfer students who have fulfilled the lower division prerequisites to the major at their former institution. Lower division students desiring to pursue a major in Spanish should consult a member of the foreign language faculty.

Fall		JUNIOR Winter		Spring	
	Units		Units		Units
Spanish 312	4	Spanish 442	4	Spanish 311	4
Spanish 441	4	Electives	12	Speech 467	4
Electives	8			Electives	8
	16		16		16
Fall		SENIOR Winter		Spring	
	Units		Units		Units
Major electives*	8	Spanish 443 or		Spanish 444 or	
Electives	8	elective	4	elective	4
		Electives	12	Electives	12
	16		16		16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

DEGREE MINOR IN SPANISH

(36 units, to include at least 12 units in upper division)

Lower Division

Elementary Spanish, 12 units *

Intermediate Spanish, 12 units *

* The student who elects Spanish as a major or minor is assumed to have the high school equivalent of one year of college Spanish when he enters college. A student who can demonstrate equivalent preparation may be exempt from 4 to 24 units of the lower division requirements. Two years of college level Spanish or the equivalent is required for admission to upper division courses.

Foreign Languages

Upper Division

- SPAN 311. Composition and Conversation, 4 units
- SPAN 312. Advanced Style and Syntax, 4 units
- Course as approved by minor adviser, 4 units

TEACHING CREDENTIALS †

Majors in Spanish seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree major in Spanish.
2. *Single Subject*: in addition to the degree major, complete 9 units in G credit courses in Spanish taken as postbaccalaureate work, as recommended by the major adviser and approved by the credential adviser.
Diversified: in addition to the degree major, complete 9 units in upper division courses in a humanities discipline other than Spanish, as recommended by an adviser in that humanities discipline and approved by the credential adviser.
3. Secondary credential candidates must receive approval of the major adviser as to subject matter competence.

Minors in Spanish seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in Spanish.
2. SPCH 467. Structural Linguistics and Phonology is recommended in a supporting field.
3. Secondary credential candidates must receive approval of the major adviser as to subject matter competence.

DEGREE MINOR IN FRENCH

(36 units, to include at least 12 units in upper division)

Lower Division

- FREN 101, 102, 103. Elementary French, 12 units *
- FREN 201, 202, 203. Intermediate French, 12 units *

Upper Division

- FREN 311. Composition and Conversation, 4 units
- FREN 312. Advanced Oral and Written Composition, 4 units
- One of the following as approved by minor adviser, 4 units:
 - FREN 442. French Literature I
 - FREN 444. French Literature II

TEACHING CREDENTIALS †

Minors in French seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in French.
2. SPCH 467. Structural Linguistics and Phonology is recommended.
3. Secondary credential candidate must receive approval of the minor adviser as to subject matter competence.

* The student who elects French as a minor is assumed to have the high school equivalent of one year of college French when he enters college. A student who can demonstrate equivalent preparation may be exempt from 4 to 24 units of the lower division requirement. Two years of college level French or the equivalent is required for admission to upper division courses.

† See Division of Education, pages 83-94.

COURSE DESCRIPTIONS

FRENCH

Lower Division

FREN 101. Elementary French I (4) F

Introduction to French language, with emphasis on audio-lingual work in language laboratory. No prerequisite.

FREN 102. Elementary French II (4) W

Continuation of FREN 101. Prerequisite: FREN 101 or equivalent.

FREN 103. Elementary French III (4)

Continuation of FREN 102. Prerequisite: FREN 102 or equivalent.

FREN 201. Intermediate French I (4) F Not offered 1965-66

Continued emphasis on audio-lingual work in the language laboratory with additional assignments in reading current French periodicals and studying patterns of language structure. Prerequisite: FREN 103, or equivalent.

FREN 202. Intermediate French II (4) W Not offered 1965-66

Continuation of FREN 201. Prerequisite: FREN 201, or equivalent.

FREN 203. Intermediate French III (4) S Not offered 1965-66

Continuation of FREN 202. Prerequisite: FREN 202, or equivalent.

Upper Division

FREN 311. Composition and Conversation (4) F, S

Advanced French composition, development of style, and expression, readings and oral discussions in French of various facets of French culture. Prerequisite: 2 years of college level French or equivalent.

FREN 312. Advanced Oral and Written Composition (4) W

Intensive review of grammar, writing and speaking of current idiomatic French. Prerequisite: FREN 311 or equivalent.

FREN 442. French Literature I (4) F, S

Masterpieces of French prose and lyric poetry of the Middle Ages and Renaissance. Emphasis on development of French language as viewed through literature of the Classical Age. Prerequisite: FREN 311 or consent of instructor.

FREN 444. French Literature II (4) W

Literature of philosophical and romantic movements in France through novels, poetry, and drama. Prerequisite: FREN 311 or consent of instructor.

FREN 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

SPANISH

Upper Division

SPAN 301. Spanish for Elementary Teachers I (4) F

Designed primarily for student preparing to teach Spanish in elementary schools. Pronunciation of Spanish; its basic vocabulary, grammar, and syntax. Taught by audio-lingual method in language laboratory.

Foreign Languages

SPAN 302. Spanish for Elementary Teachers II (4) W

Continuation of SPAN 301. Taught by audio-lingual method in language laboratory. Special attention to imperfect and preterit tenses; present subjunctive, command forms, and pronouns. Prerequisite: SPAN 301 or consent of instructor.

SPAN 311. Composition and Conversation (4) S

Readings in contemporary Spanish prose and poetry, idiomatic written and oral expression. Prerequisite: two years of lower division Spanish or consent of instructor.

SPAN 312. Advanced Style and Syntax (4) F

Consistencies of the language, development of proper style and expression, selected readings. Prerequisite: two years of lower division Spanish or consent of instructor.

SPAN 441. Spanish Literature I (4) F

Early period through the Golden Age. Lecture and discussion. Prerequisite: two years of lower division Spanish or consent of instructor.

SPAN 442. Spanish Literature II (4) W

From 1750 to the present. Lecture and discussion. Prerequisite: SPAN 311.

SPAN 443. Spanish-American Literature I (4) W

From the beginnings to 1880. Prerequisite: SPAN 311.

SPAN 444. Spanish-American Literature II (4) S

From 1880 to the present. Prerequisite: SPAN 311.

SPAN 461. Spanish-American Civilization I (4) W

Growth of Spanish-American institutions and culture. Prerequisite: Consent of instructor.

SPAN 462. Spanish-American Civilization II (4) S

Continuation of SPAN 461. Prerequisite: Consent of instructor.

SPAN 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced or specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

History

In the Division of Social Sciences

Assistant Professor: John P. Rasmussen, Head, and Frank C. Holder

Associate Professor: David Bentheim Stenzel

Professor: John E. Caswell

History, a dialogue between the present and the past about the future, provides the general student with a background for studying the humanities and understanding the contemporary world. Preparation in history is especially useful for careers which require careful judgment on the basis of limited evidence, such as the United States Foreign Service, intelligence work, journalism, as well as teaching.

The student seeking a Bachelor of Arts, Social Sciences may select a major in history or an interdepartmental major in history and any other discipline within the social sciences (for the latter, see Division of Social Sciences, page 133).

REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

History majors are to:

1. Complete the Requirements for the Bachelor of Arts Degree, page 48.
2. Complete prerequisites to the major, page 105.
3. Complete the major of not less than 36 upper division units, page 105.
4. Complete a minor to be selected in consultation with the major adviser.

DEGREE MAJOR IN HISTORY

Prerequisites to the Major

Courses in the major field:

HIST 101, 102, 103. Western Civilization, 12 units

Required courses in supporting fields:

PSCI 202. American Government, 4 units

Recommended courses in supporting fields:

ECON 250, 251. Principles of Economics, 8 units

SOCL 201. Introduction to Sociology, 4 units

Three years of college level foreign language, 24 units

The Major

Two of the following as approved by major adviser:

HIST 361. Colonial America

HIST 362. Ante-Bellum America

HIST 363. America After Civil War

HIST 364. Contemporary America

HIST 470. American Diplomatic History

HIST 474. American Constitutional History

HIST 478. American Intellectual and Social History

Units

8

History

The Major

Units

Two of the following as approved by major adviser:

HIST 314. Medieval Europe	
HIST 320. Early Modern Europe	
HIST 323. Nineteenth Century Europe	
HIST 324. Twentieth Century Europe	8

One of the following as approved by major adviser:

HIST 380. Asia before 1500	
HIST 381. Asia from 1500 to 1900	
HIST 382. Contemporary Asia	
HIST 403. Age of Exploration	
HIST 404. Rise and Fall of European Colonial System	
HIST 406. Science, Technology, and Society Since 1700	
HIST 480. Modern China	
HIST 484. Modern Japan	4
HIST 496. Senior Seminar	4
Electives on advisement	8

Total 36

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN HISTORY

FRESHMAN

Fall	Units	Winter	Units	Spring	Units
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Phys. Science 100	4	Science	4	Science	4
Art 100	4	Music 100	4	Creative Arts 100	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ. 103	½
	16½		16½		16½

SOPHOMORE

Science	4	Mathematic	4	Course in Major	4
Psychology 201	4	Pol. Science 201	4	Pol. Science 202	4
Speech 200	4	Electives	4	Philosophy 201	4
Foreign Language	4	Foreign Language	4	Foreign Language	4
Phys. Educ. 201	½	Phys. Educ. 202	½	Phys. Educ. 203	½
	16½		16½		16½

JUNIOR

Courses in Major	8	Courses in Major	8	Courses in Major	8
Foreign Language	4	Foreign Language	4	Foreign Language	4
Electives	4	Electives	4	Electives	4
	16		16		16

SENIOR

Course in Major	4	Course in Major	4	Course in Major	4
Foreign Language	4	Foreign Language	4	Foreign Language	4
Electives	8	Electives	8	Electives	8
	16		16		16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

DEGREE MINOR IN HISTORY

(24 units, to include at least 16 units in upper division)

The courses for the degree minor in history are selected in consultation with and approved by the minor adviser.

TEACHING CREDENTIALS *

Major in history for elementary and secondary credentials must fulfill the following requirements:

1. Degree major in history.
2. *Single Subject*: in addition to the degree major, complete 9 units in G credit courses in history taken as postbaccalaureate work, as recommended by the major adviser and approved by the credential adviser.
Diversified: in addition to the degree major in history, complete 9 upper division units in a social sciences discipline other than history as recommended by an adviser in that social science discipline and approved by the credential adviser.
3. Secondary credential candidate must receive approval of the History Department as to subject matter competence.

Minor in history for elementary and secondary must complete the following:

1. Complete requirements for degree minor in history; plus additional courses in history to total a minimum of 30 units, as recommended by the minor adviser and approved by the credential adviser.
2. Secondary credential candidate must receive approval of the History Department as to subject matter competence.

COURSE DESCRIPTIONS

HISTORY OF CIVILIZATION SERIES

Lower Division

HIST 101. Western Civilization I (4) F

Examination of man's past efforts to organize his society, to understand the nature of his universe, and to interpret the riddle of human destiny. Intellectual, political, and social history from early civilizations to 800 A.D.

HIST 102. Western Civilization II (4) W

Continuation of HIST 101; from Charlemagne to the Enlightenment.

HIST 103. Western Civilization III (4) S

Continuation of HIST 102; the modern world since the Enlightenment.

HISTORY OF EUROPE SERIES

Upper Division

HIST 314. Medieval Europe (4) F

Quest for political, social, economic, military, and philosophic security; Constantine to Savonarola.

HIST 320. Early Modern Europe (4) W

Europe, 1500-1789. Search for political, social, economic, cultural, and philosophic freedom; Luther to Robespierre.

* See Division of Education, pages 83-94.

History

HIST 323. Nineteenth Century Europe (4) W

Democratization in the age of nationalism; Napoleon to Sarajevo.

HIST 324. Twentieth Century Europe (4) S

Search for political, social, economic, and philosophic security since 1914.

HISTORY OF AMERICA SERIES

Upper Division

HIST 361. Colonial America (4) SS 1966

America 1492-1783. Age of Exploration through the American Revolution: emergence of distinctively American social, political, and economic institutions; problems of nationalism.

HIST 362. Ante-Bellum America (4) F

United States, 1783-1865. Articles of Confederation through the Civil War: quest for cultural independence; interaction of popular democracy and economic growth; slavery, sectionalism and nationalism. Meets General Education requirement in U.S. history.

HIST 363. America After Civil War (4) W

United States, 1865-1914. Reconstruction through Progressivism: development of a complex urban-industrial society; coming of world power. Meets General Education requirement in U.S. history.

HIST 364. Contemporary America (4) S

United States, since 1914. World War I to present: America's role as a great power; problems of welfare capitalism. Meets General Education requirement in U.S. history.

HISTORY OF ASIA SERIES

Upper Division

HIST 380. Asia Before 1500 (4) F

Early and middle periods of Far Eastern cultures.

HIST 381. Asia From 1500 to 1900 (4) W

Confrontation of East and West.

HIST 382. Contemporary Asia (4) S

Independence and the quest for self-identification.

SPECIALIZED STUDIES

Upper Division

HIST 365. Modern Latin America (4) *

Independence to the present: quest for stability in an underdeveloped Western society.

HIST 367. California History and Geography (4) F, S

Spanish exploration and settlement, environment, political, economic and social developments which give California its unique character.

HIST 368. Westward Movement (4) W

Frontier and its influence on American institutions and character since Jamestown. Evaluation of the Turner thesis.

* Offered alternate years.

History

HIST 403. Age of Exploration (4) F

Exploration since Henry the Navigator; search for gold and spices. Establishment of trading factories and mercantilist colonies in Asia and Africa.

HIST 404. Rise and Fall of European Colonial System (4) W

New colonialism of the nineteenth century in Asia and Africa; the collapse of colonialism in the twentieth century. (Formerly 400)

HIST 406. Science, Technology and Society Since 1700 (4) S

Growth of science and technology, and their influences on modern thought and life. Prerequisite: One year of college science.

HIST 435. Modern France (4) F

Development of the French nation, with emphasis on period since 1870.

HIST 440. Modern Germany (4) F

Problem of disunity since Luther.

HIST 442. Modern Russia (4) S

Struggle for Westernization since Peter the Great.

HIST 446. Modern Britain (4) *

Tudor era to present: evolution from medieval kingdom to modern state.

HIST 470. American Diplomatic History (4) W

U.S. foreign relations from colonial period to present. Meets General Education requirement in U.S. history.

HIST 474. American Constitutional History (4) W

English and colonial origins, American Revolution, Constitutional Convention, ratification; resolution of basic issues of political, economic, social and personal liberty in the course of American history since 1789. Meets General Education requirements in U.S. history and constitution. Credit is applicable to the political science concentration in the social sciences interdepartmental major, and the degree minor in political science.

HIST 478. American Intellectual and Social History (4) F

Changes in American thought and conduct from colonial days to present. Meets General Education requirement in U.S. history.

HIST 480. Modern China (4) F

Development of China; emphasis on period from 1839 to present.

HIST 484. Modern Japan (4) W

Development of Japan; emphasis on period after 1853.

HIST 496. Senior Seminar (4) S

Philosophy of history. Research techniques applied to student investigation of original source material. Prerequisite: Consent of instructor.

HIST 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

Graduate

HIST 598. Individual Study (3-5) F, W, S

For qualified graduate student in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

* Offered alternate years.

Mathematics

In the Division of Science and Mathematics

Associate Professor: James N. Javaher, Head

Courses in mathematics are designed primarily to provide thorough undergraduate training in pure and applied mathematics, and to serve the needs of majors in mathematics, science, and other departments. Prospective teachers in the elementary and secondary schools may obtain teaching majors or minors in mathematics.

The work required for a Bachelor of Arts, Mathematics and Science with a major in mathematics presupposes seven semesters of high school level mathematics: algebra (2 years), plane geometry (1 year), and trigonometry ($\frac{1}{2}$ year); solid geometry and physics are desirable. Deficiencies may be made up by proper selection of courses in the lower division. Recommended courses in lower division supporting fields are two years of French, German, or Russian, and one year of general physics.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

Mathematics majors are to:

1. Complete Requirements for the Bachelor of Arts Degree, page 48.
2. Complete prerequisites to the major.
3. Complete the major of not less than 42 upper division units, including course requirements as specified for the major in the table.
4. Completion of a minor is not required.

DEGREE MAJOR IN MATHEMATICS

Prerequisite to the Major

MATH 120, 121. Analytic Geometry and Calculus, 8 units

MATH 222, 223, 224. Analytic Geometry and Calculus, 9 units

The Major

	<i>Units</i>
MATH 311, 312. Advanced Calculus	6
MATH 321, 322. Differential Equations	6
MATH 331. Modern Geometry	4
MATH 351, 352, 353. Modern Algebra	9
Courses as approved by major adviser	17
<hr/>	
Total	42

Mathematics

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN MATHEMATICS

FRESHMAN					
Fall	Units	Winter	Units	Spring	Units
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Phys. Science 100	4	Science	4	Science	4
Art 100	4	Math 120	4	Math 121	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ.	½
	16½		16½		16½
SOPHOMORE					
Science	4	Pol. Science 201	4	Pol. Science 202	4
Psychology 201	4	Electives	4	Speech 200	4
Math 222	3	Math 223	3	Math 224	3
Philosophy 201	4	Music 100	4	Creative Arts 100	4
Phys. Educ. 201	½	Phys. Educ. 202	½	Phys. Educ. 203	½
	15½		15½		15½
JUNIOR					
Math 311	3	Math 312	3	Math 331	4
Math 351	3	Math 352	3	Math 353	3
Electives	9	Electives	9	Electives	8
	15		15		15
SENIOR					
Math 321	3	Math 322	3	Courses in math	6-8
Courses in math	6	Courses in math	6	Electives	8
Electives	6	Electives	6		
	15		15		14-16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

DEGREE MINOR IN MATHEMATICS

(22 units, to include at least 14 units in upper division)

Lower Division

MATH 120, 121. Analytic Geometry and Calculus, 8 units

Upper Division

MATH 351. Modern Algebra I, 3 units

Courses as approved by minor adviser, 11 units

TEACHING CREDENTIALS *

Majors in mathematics seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree major in mathematics.
2. Complete MATH 301 and 302, Foundations of Mathematics, may be taken as a part of the 17 units approved by the major adviser in the degree major in mathematics.

* See Division of Education, pages 83-94.

Mathematics

3. *Single Subject*: complete 9 units in G credit courses in mathematics taken as postbaccalaureate work, as recommended by the major adviser and approved by the credential adviser.

Diversified: in addition to the degree major in mathematics, complete 9 upper division units in a science discipline as recommended by a science adviser and approved by the credential adviser.

4. Secondary credential candidate must receive approval of the Mathematics Department as to subject matter competence.

Minors in mathematics seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in mathematics; plus additional courses in mathematics to total a minimum of 30 units, as recommended by the minor adviser and approved by the credential adviser.
2. Secondary credential candidate must receive approval of the Mathematics Department as to subject matter competence.

COURSE DESCRIPTIONS *

Lower Division

MATH 100. Math for Liberal Arts Students I (4) W

Sets, relations, structure of number systems, systems of numerations, modular arithmetic, properties of the sets of natural numbers, integers, rational and irrational numbers, real and imaginary numbers, applications. Recommended for general students and those seeking an elementary teaching credential. Not open to students who have had MATH 120 or equivalent. Credit not applicable to major or minor in mathematics. Prerequisites: One year of high school algebra and a knowledge of plane geometry.

MATH 101. Math for Liberal Arts Students II (4) S

Continuation of MATH 100. Euclidian geometry, solid figures, measurements, polyhedra, functions and graphs, cartesian coordinates, inequalities, logic, mathematical patterns, and mathematical systems. Recommended for general students and those seeking a junior high school teaching credential. Not open to students who have had MATH 120 or equivalent. Credit not applicable to major or minor in mathematics. Prerequisite: MATH 100.

MATH 110. College Algebra and Trigonometry (4) F

Binominal theorem, inequalities, theory of equations, quadratic systems, determinants, probability, trigonometric functions; solution of triangles, graphing, inverse functions, complex numbers, polar coordinates, trigonometric series, hyperbolic functions, application to practical problems. Recommended for students of applied sciences. Prerequisite: Two years of high school algebra.

MATH 120. Analytic Geometry and Calculus I (4) W

Basic ideas of Cartesian geometry, functions and their graphs, partitions and step functions, definition of integral for step function, basic properties of the integral, trigonometric functions, piecewise monotonic functions, theory of integration, derivative of a function, and definitions of limit and continuity. The basic limit theorems, the algebra of derivatives, primitive functions, composite functions, differentials, integration by parts, and partial derivatives. Prerequisites: MATH 110 or two years of high school algebra, one year of plane geometry, and one-half year of trigonometry.

* It is important for the student to have earned a grade of C or better in all mathematics courses which are listed as prerequisites.

MATH 121. Analytic Geometry and Calculus II (4) S

Definition of the natural logarithm, exponential function, hyperbolic functions. Inverse of monotonic functions, inverse of trigonometric functions, integration by partial fractions, integral curves and direction fields, first order differential equation for the exponential function, first-order linear equation, homogeneous first-order equations, geometric and analytic description of vectors, basic ideas of vector algebra, dot product, and cross product. Prerequisite: MATH 120.

MATH 160. Statistics (4) F, W, S

Introductory course designed for students in the social and natural sciences. Organization and presentation of data; frequency distributions; computation of descriptive constants; fundamentals of distributions, probability, analysis and interpretation of data. Prerequisite: One year of high school algebra.

MATH 222. Analytic Geometry and Calculus III (3) F Not offered 1965-66

Derivatives of vector functions. Velocity and acceleration, conic sections, translation and rotation of axes in the plane, curvature of a curve, polar coordinates, cylindrical coordinates, Mean-value theorem, Roll's theorem, Taylor's formula with remainder, and applications of the Mean-value theorem. Prerequisite: MATH 121.

MATH 223. Analytic Geometry and Calculus IV (3) W Not offered 1965-66

Sequences, infinite series, improper integrals, set functions, Boolean rings and Boolean algebras of sets, multiple integration, double and triple integrals. Prerequisite: MATH 222.

MATH 224. Analytic Geometry and Calculus V (3) S Not offered 1965-66

Elementary probability theory, calculus of probabilities, density functions, distributions of functions of random variables, and Chebyshev's inequality. Differential calculus of scalar fields, Mean-value theorem for scalar fields, gradient of a scalar field, extreme with side conditions, and Lagrange's multipliers. Prerequisite: MATH 223.

Upper Division

MATH 300. History of Mathematics (3) SS *

Origin and development of mathematical ideas from early civilization to the present time. Prerequisite: Consent of instructor.

MATH 301. Foundations of Mathematics I (3) F, W

Review of basic principles, numerals and systems of numeration, sets, relations and their properties, system of whole numbers, integers, rational numbers, and real numbers. Recommended for elementary and junior high school teachers seeking an advanced course in mathematics. Prerequisite: MATH 110, or consent of instructor.

MATH 302. Foundations of Mathematics II (3) S

Selected topics from complex numbers, sets, group and fields, logic, algebra, matrix techniques. Theory of numbers, probability, geometries, and topology. Recommended for secondary school teachers. Prerequisite: MATH 301.

MATH 311. Advanced Calculus I (3) F *

Limits and continuity, real number system, continuous functions, extension of the law of the mean, function of several variables, partial differentiation, implicit-function theorems, transformation and mappings. Prerequisite: MATH 224.

MATH 312. Advanced Calculus II (3) W *

Curves and surfaces, line and surface integrals, point-set theory, vectors and vector fields, double and triple integrals. Prerequisite: MATH 311.

* Offered alternate years.

Mathematics

MATH 313. Advanced Calculus III (3) S *

Fundamental theorems on continuous functions, the theory of integration, infinite series, uniform convergence, power series, improper integrals, complex functions, and Fourier series integrals. (Formerly 312) Prerequisite: MATH 312.

MATH 321. Differential Equations I (3) F *

Special equations, exact equations, linear equations, series solutions, and numerical solutions. Prerequisite: MATH 224.

MATH 322. Differential Equations II (3) W *

Laplace transform and operational methods. Bessel's Equation and Function; introduction to partial differential equations. Prerequisite: MATH 321.

MATH 323. Differential Equations III (3) S *

Boundary value problems, Legendre polynomials, spherical harmonics, Poisson integral formula, Green's functions. (Formerly 322) Prerequisite: MATH 322.

MATH 331. Modern Geometry (4) S *

Foundations of geometry and the interconnections between geometries. Selected topics in Euclidean geometry, synthetic and analytic projective geometry, and an introduction to basic ideas of non-Euclidean geometrics as developed from an investigation of Euclid's Fifth Postulate and the projective approach. Prerequisite: MATH 120.

MATH 351. Modern Algebra I (3) F

Elementary properties of groups, rings, integral domains, and fields. Prerequisites: Junior standing and consent of instructor.

MATH 352. Modern Algebra II (3) W

Introduction to the theory of vectors and vector spaces. Prerequisite: MATH 351.

MATH 353. Modern Algebra III (3) S

Algebra of matrices and determinants, linear transformation. (Formerly 352) Prerequisite: MATH 352.

MATH 361. Probability (4) S *

Concept of probability; theorems of total and compound probabilities; concepts of random variables, expected value, variance and covariance; corresponding rules; continuous probability distributions; binomial distribution and its limiting cases; normal distribution and Poisson distribution. Prerequisite: MATH 121.

MATH 362. Inferential Statistics (4) F *

Normal and binomial distributions, normal probability function, tests of hypotheses, power of tests, statistical inference, regression analysis. Prerequisites: MATH 110 and 160.

MATH 440. Theory of Numbers (4) S *

Euclid's algorithm and fundamental theorems on divisibility, prime numbers, congruence of numbers, theorems of Fermat, Euler, and Wilson, congruence of the first and higher degrees, Lagrange's theorem and its applications, residues of power quadratic residues, introduction to the theory of binary quadratic forms. Prerequisite: MATH 120.

MATH 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisites: Senior standing and consent of instructor.

* Offered alternate years.

Music

In Division of Creative Arts

Professors: Gene C. Wisler, Acting Coordinator; Joseph E. Bruggman

Associate Professor: Giovanni Camajani

Assistant Professor: Sylvia M. Ghiglieri

The music curriculum provides aesthetic and cultural development to the general student in liberal arts. It also offers courses appropriate to the establishment of backgrounds for private music teaching, elementary school classroom and vocal music teaching, and graduate study in music. The total program attempts to develop each student's creative potential through study and experience in performance, theory and composition, history and literature.

The Bachelor of Arts, Art and Music is offered with a major in music. The student who intends to major in music is advised to consult with the Music Department head concerning the development of programs of study in specific fields of specialization. Responsibility rests with the potential music major to secure the departmental list of testing dates and other details pertaining to departmental requirements.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

Music majors are to:

1. Complete the Requirements for the Bachelor of Arts degree, page 48.
2. Complete prerequisites to the major, page 116.
3. Complete the major of not less than 37 upper division units, page 116.
4. Completion of a minor is not required.

GENERAL REQUIREMENTS FOR MUSIC MAJOR AND MINOR

1. Freshmen and transfer students contemplating a major or minor in music are required to declare a major performing medium (voice, piano, or orchestral instrument) upon entering the program.
2. Prior to acceptance as a music major or minor the student is required to demonstrate an acceptable level of performance skills in both piano and voice. Minimum abilities are: *Piano*—play four-part hymns and provide a simple accompaniment utilizing I, Iv, V₇ chords for songs selected from literature of the community singing type; *Voice*—sing any part of a four-part hymn; demonstrate knowledge of proper phrasing, breathing, vowels and consonants, and tone production in songs selected from simple vocal literature. The student should consult his adviser about this requirement and if necessary schedule courses in piano and voice during the freshman year. Class instruction is offered at the beginning level in both piano and voice.

Music

3. Transfer students contemplating a major or minor in music are required to take a theory test to determine level of advancement. Students whose scores indicate a degree of inadequacy in theory will be required to enroll in appropriate lower division theory courses to remove deficiencies.
4. A freshman or lower division transfer will be evaluated for acceptance as a major or minor in music during the final quarter of the sophomore year. Students entering as transfers at the upper division level will be evaluated for acceptance as a major or minor in music during the latter part of the first quarter in which they enroll in music courses in the College. Evaluation will be based upon lower division course work completed in music and an audition in the major medium of performance conducted by a committee of the music faculty.
5. Students are required to perform in recital as a part of a course in applied music as determined by the instructor.
6. Music majors are required to participate in one performing group (chorus or ensemble) each quarter.
7. All music majors are required during the senior year to present themselves in solo or chamber ensemble performance in the area of their major medium of performance as may be determined by a committee of the music faculty. Satisfactory performance is required for fulfillment of major requirements.

DEGREE MAJOR IN MUSIC

Prerequisites to the Major

MUS 100. Introduction to Music, 4 units

MUS 122, 123. Foundational Theory, 8 units

MUS 161, 164. Basic Class Piano and/or Basic Class Voice, 1 unit. (May be met by examination; additional work may be required dependent upon level of competence.)

MUS 221, 222, 223. Intermediate Theory, 10 units

MUS 241 or 243. Group Performance (chorus or ensemble), 6 units

MUS 261 through 287. Applied Music (major performance medium), 6 units

The Major

	Units
MUS 301, 302, 303. History and Literature	9
MUS 321. Analysis and Composition in Small Forms	4
MUS 325. Conducting and Orchestration	4
Two courses from the following as approved by the major adviser:	
MUS 401. Music in the Renaissance Era	
MUS 402. Music in the Baroque Era	
MUS 403. Music in the Classical Era	
MUS 404. Romantic Music of the Nineteenth Century	
MUS 405. Twentieth Century Music	8
MUS 441 or 443. Group Performance (chorus or ensemble)	6
MUS 461 through 487. Applied Music (major performance medium)	6
Total	37

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN MUSIC

FRESHMAN

Fall		Winter		Spring	
	Units		Units		Units
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Music 100	4	Music 122	4	Music 123	4
Music 161 and/or 164	0-2	Music 161 and/or 164	0-2	Music 161 and/or 164	0-2
Applied Music	1	Applied Music	1	Applied Music	1
Music 241 or 243	1	Music 241 or 243	1	Music 241 or 243	1
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ.	½
<hr/> 14½-16½		<hr/> 14½-16½		<hr/> 14½-16½	

SOPHOMORE

Phys. Science 100	4	Science	4	Science	4
Psychology 201	4	Art 100	4	Creative Arts 100	4
Electives	3	Mathematics	4	Speech 200	4
Music 221	4	Music 222	3	Music 223	3
Applied Music	1	Applied Music	1	Applied Music	1
Music 241 or 243	1	Music 241 or 243	1	Music 241 or 243	1
<hr/> 17		<hr/> 17		<hr/> 17	

JUNIOR

Philosophy 201	4	Pol. Science 201	4	Pol. Science 202	4
Music 301	3	Music 302	3	Music 303	3
Music 321	4	Electives	7	Music 325	4
Applied Music	1	Applied Music	1	Applied Music	1
Music 441 or 443	1	Music 441 or 443	1	Music 441 or 443	1
Phys. Educ. 201	½	Phys. Educ. 202	½	Phys. Educ. 203	½
Elective	3				
<hr/> 16½		<hr/> 16½		<hr/> 16½	

SENIOR

Music Literature	4	Music Literature	4	Applied Music	1
Applied Music	1	Applied Music	1	Music 441 or 443	1
Music 441 or 443	1	Music 441 or 443	1	Electives	12
Electives	10	Electives	9		
<hr/> 16		<hr/> 15		<hr/> 14	

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

DEGREE MINOR IN MUSIC

(34 units, to include at least 15 units in upper division)

Lower Division

MUS 100. Introduction to Music, 4 units

MUS 122, 123. Foundational Theory, 8 units

MUS 161, 164. Basic Class Piano and Basic Class Voice, 1 unit (May be met by examination; additional work may be required dependent upon level of competence.)

MUS 221. Intermediate Theory, 1 unit

MUS 241 or 243. Group Performance (chorus or ensemble), 3 units

MUS 261 through 287. Applied Music (major performance medium), 3 units

Music

Upper Division

- MUS 301, 302, 303. History and Literature, 9 units
MUS 441 or 443. Group Performance (chorus or ensemble), 3 units
MUS 461 or 487. Applied Music (major performance medium), 3 units

TEACHING CREDENTIALS *

Majors in music seeking an elementary credential must fulfill the following requirements:

1. Degree major in music.
2. In addition to the degree major, complete MUS 335. Music in Elementary School (may be taken in upper division, but must be taken prior to student teaching).

Minors in music seeking an elementary credential must fulfill the following requirements:

1. Degree minor in music, page 117.
2. Complete MUS 335. Music in Elementary School—3 units, may be taken in upper division but must be taken prior to student teaching in music.
3. See Division of Education, pages 83-94.

MUSIC COURSES OF NON-MAJORS

Music courses are offered for the non-major who is interested in music as providing a cultural background or a performance outlet. Various courses are offered which presuppose no previous experience in music, while others are open to the non-major which require an ability to read music and a degree of performance skill.

GROUP PERFORMANCE COURSE CREDIT

A maximum of 12 units, including no more than 6 units in lower division, in group performance courses (chorus and ensemble) may apply toward a degree.

COURSE DESCRIPTIONS

THEORY

Lower Division

MUS 122. Foundational Theory I (4) W

Scales, intervals, all triads and inversions, cadences, chord connections, and four-part writing. Ear training, sight singing, analysis, and keyboard harmony. Prerequisite: Ability to read music.

MUS 123. Foundational Theory II (4) S

Continuation of MUS 122. Non-harmonic tones, modulation, dominant seventh chord with inversions, secondary dominants, and dominant ninth chord. Ear training, sight singing, analysis, and keyboard harmony. Prerequisite: MUS 122.

MUS 221. Intermediate Theory I (4) F Not offered 1965-66

Continuation of MUS 123. All seventh chords and inversions, sequence, and modulation. Ear training, sight singing, analysis, and keyboard harmony. Prerequisite: MUS 123.

MUS 222. Intermediate Theory II (3) W Not offered 1965-66

Continuation of MUS 221. Non-dominant ninth chords, altered chords, chromatic modulation, and modal harmony. Ear training, sight singing, analysis, and keyboard harmony. Prerequisite: MUS 221.

* See Division of Education, pages 83-94.

MUS 223. Intermediate Theory III (3) S Not offered 1965-66

Continuation of MUS 222, based on the harmonic practice of J. S. Bach. Harmonic and formal analysis of Bach's Inventions and selected fugues from the Well-Tempered Clavichord, Book I; emphasis on creative writing in contrapuntal two- and three-part forms. Prerequisite: MUS 222.

Upper Division

MUS 321. Analysis and Composition in Small Forms (4) F

Analysis of musical structure from the short two- and three-part forms to sonata-form; emphasis on the comparison of styles and the development of an ability to write in small forms. Prerequisite: MUS 223.

MUS 325. Conducting and Orchestration (4) S

Arranging for various instrumental combinations and full orchestra, plus fundamental score reading and baton technique. (Formerly 327, 343, 442) Prerequisite: MUS 223.

APPRECIATION, HISTORY AND LITERATURE

Lower Division

MUS 100. Introduction to Music (4) F, W

Music considered as a facet of the intellectual continuum involving the philosophical, sociological and historical aspects; consideration of origins; symbols of the language in its theory and introduction to form. No prerequisites.

Upper Division

MUS 301. History and Literature I (3) F

An historical perspective of music from ancient Greek through the Middle Ages and the Renaissance eras; philosophical and sociological impacts; early monody and polyphony; analysis of styles and forms. Lectures, discussions, collateral readings, term thesis. Prerequisite: CREA 100 or ability to read music.

MUS 302. History and Literature II (3) W

Continuation of MUS 301. Music of the Baroque and Classical eras. Prerequisite: CREA 100 or ability to read music.

MUS 303. History and Literature III (3) S

Continuation of MUS 302. Music of the Romantic and Contemporary eras. Prerequisite: CREA 100 or ability to read music.

MUS 401. Music in the Renaissance Era (4) *

A critical analysis of music from the late fourteenth century through the sixteenth century. Prerequisite: CREA 100 or ability to read music.

MUS 402. Music in the Baroque Era (4) *

An intensive analysis of vocal and instrumental forms of the period from 1600 to 1750; the early opera, oratorio and cantata; suite, concerto grosso and sonata. Prerequisite: CREA 100 or ability to read music.

MUS 403. Music in the Classical Era (4) *

An analytical examination of the music from 1750 to 1827, with special emphasis on the works of the Viennese classicists: Haydn, Mozart and Beethoven. Prerequisite: CREA 100 or ability to read music.

MUS 404. Romantic Music of the Nineteenth Century (4) *

Concepts and ideals of the Romantic periods from circa 1820 to 1900 seen through the focal point of music. Prerequisite: CREA 100 or ability to read music.

* Offered alternate years.

Music

MUS 405. Twentieth Century Music (4) *

A critical examination of impressionism and expressionism in music of Debussy and Schoenberg. Polytonal and atonal ramifications; primitivism of Stravinsky. Prerequisite: CREA 100 or ability to read music.

APPLIED MUSIC

Lower Division

MUS 161. Basic Class Piano (1) F, W, S

Basic keyboard experience in reading and playing music from beginning to intermediate level, with emphasis on the fundamentals of music theory and structure. May be repeated for a total of 3 units. No prerequisite.

MUS 164. Basic Class Voice (1) F, W, S

Introduction to singing and vocal technique; posture, breathing, and tone production. Problems of tension and relaxation. May be repeated for a total of 6 units. Prerequisite: Ability to read music.

MUS 261. Intermediate Piano (1) F, W, S

Study and performance of the smaller compositions in the standard piano literature. May be repeated for a total of 3 units. (Formerly 271) Prerequisite: Consent of instructor.

MUS 267. Intermediate Orchestral Instruments (1) F, W, S

Instruction in orchestral instruments: strings, woodwinds, and brasses. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

MUS 281. Intermediate Studio Piano (1) F, W, S

Individual instruction in piano for intermediate level students. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

MUS 284. Intermediate Studio Voice (1) F, W, S

Individual instruction in singing; introduction to repertoire in English and Italian. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

MUS 287. Intermediate Studio Orchestral Instruments (1) F, W, S

Individual instruction in orchestral instruments: strings, woodwinds, and brasses. The student is advised to consult a music adviser as to the availability of instruction on his particular instrument. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

Upper Division

MUS 461. Advanced Piano (1) F, W, S

Study and performance of advanced repertoire with emphasis upon development of style and interpretation as well as technique. May be repeated for a total of 12 units. Prerequisite: Consent of instructor.

MUS 464. Advanced Voice (1) F, W, S

Vocal technique for the advanced student; study of German lieder, French and Italian repertoire, and solo material in cantata, oratorio, and opera. May be repeated for a total of 12 units. Prerequisite: Consent of instructor.

MUS 467. Advanced Orchestral Instruments (1) F, W, S

Advanced instruction in orchestral instruments: strings, woodwinds, and brasses. May be repeated for a total of 12 units. Prerequisite: Consent of instructor.

MUS 481. Advanced Studio Piano (1) F, W, S

Individual instruction in piano for advanced students. May be repeated for a total of 12 units. (Formerly 371) Prerequisite: Consent of instructor.

* Offered alternate years.

MUS 484. Advanced Studio Voice (1) F, W, S

Intensive individual study of German lieder, French and Italian repertoire, and introduction to operatic roles and small scenes. May be repeated for a total of 12 units. Prerequisite: Consent of instructor.

MUS 487. Advanced Studio Orchestral Instruments (1) F, W, S

Individual advanced instruction in orchestral instruments: strings, woodwinds, and brasses. The student is advised to consult a music adviser as to the availability of instruction on his particular instrument. May be repeated for a total of 12 units. Prerequisite: Consent of instructor.

GROUP PERFORMANCE**Lower Division****MUS 241. Chorus** (1) F, W, S

Study and performance of choral masterworks. Open to all students. A voice test will be given. As a member of a major performance group, the student will participate in public performances. P or F grade is given. May be repeated for a total of 6 units. (Formerly 351) Prerequisites: Ability to read music and an acceptable singing voice.

MUS 243. Ensemble (choral and instrumental) (1) F, W, S

Study and performance of materials for vocal and instrumental ensembles. As a member of a major performance group, the student will participate in public performances. P or F grade is given. May be repeated for a total of 6 units. Prerequisite: An acceptable degree of performance skill.

Upper Division**MUS 441. Chorus** (1) F, W, S

Study and performance of choral masterworks. Open to all students. A voice test will be given. Students are expected to participate in all public performances. P or F grade is given. May be repeated for a total of 6 units. (Formerly 351) Prerequisites: Ability to read music and an acceptable singing voice.

MUS 443. Ensemble (choral and instrumental) (1) F, W, S

Study and performance of materials for small vocal and instrumental ensembles. Students are expected to participate in all public performances. P or F grade is given. May be repeated for a total of 6 units. Prerequisite: An acceptable degree of performance skill.

MUSIC EDUCATION**Upper Division****MUS 335. Music in Elementary Schools** (3) *

Application of music to the elementary classroom. Problems, methods and materials covering such areas as singing, rhythms, creative music, music reading and music appreciation. Prerequisite: MUS 161 or ability to read music. Not open to lower division students.

MUS 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

CREATIVE ARTS**Lower Division****CREA 100. Structure and Meaning in the Arts** (4) S

The arts in their formal structure; emphasis on analysis of styles of expression. Prerequisites: ART 100 and MUS 100.

* Offered alternate years.

Philosophy

In the Division of Humanities

Professor: Catherine D. Rau

Philosophy may be used as a preparation for law, theology, and similar professional programs. In 1965-66 only a minor in philosophy will be available.

DEGREE MINOR IN PHILOSOPHY

A minimum of 24 units in philosophy courses selected in consultation with the minor adviser, including at least 16 units in upper division, constitute the degree minor in philosophy. Eight of these units shall be from PHIL 201, 311, and 312.

COURSE DESCRIPTIONS

Lower Division

PHIL 201. Logic (4) F, W, S Not offered 1965-66

Deductive and inductive logic, argumentation, application of logic to academic disciplines.

Upper Division

PHIL 301. Ethics (4)

Analysis of problems of social and personal morality considered from an historical standpoint. Theories of the highest good.

PHIL 311. Ancient and Medieval Philosophy (4) F

Greek thought as a foundation for European philosophy. Development of philosophical thought through the medieval period.

PHIL 312. Modern Philosophy (4)

Western philosophy from Descartes to Spencer: continental rationalism, British empiricism, Kant and post-Kantian German philosophy, and nineteenth century British philosophers.

PHIL 313. Contemporary Philosophy (4)

Philosophical systems developed in the twentieth century, including pragmatism, phenomenology, existentialism, process philosophy, analysis philosophy, logical positivism, and neo-orthodoxy.

PHIL 322. Comparative Religious Philosophy (4) F

Critical inquiry into the nature of religious experience considered from the philosophies of contemporary religions, such as Buddhism, Hinduism, Taoism, Mohammedanism, Confucianism, Judaism, and Christianity.

PHIL 412. Theory of Knowledge (4) F

Basic considerations of problems of epistemology. Idealism, phenomenalism, pragmatism, empiricism, and realism as theories to be discussed in light of the fields of science, education, and politics.

PHIL 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

Physical Education and Health

COURSE DESCRIPTIONS

PHYSICAL EDUCATION

Lower Division

PHED 101, 102, 103. Physical Education Activity for Freshmen (½) F, W, S

Sections to be designated in the *Class Schedule* for men and women.

PHED 201, 202, 203. Physical Education Activity for Sophomores (½) F, W, S

Not offered 1965-66

Sections to be designated in the *Class Schedule* for men and women.

PHED 251. Team Sports (½) F, W, S

To be selected from baseball, basketball, crew, golf, swimming, tennis, track, and field.

HEALTH

Lower Division

HLTH 101. Health Science (3) W

Human anatomy and elementary physiology; the formation of sound health habits and attitudes; the development of an effective philosophy of personal health; community sanitation; prevention of communicable diseases. Meets credential requirement in alcohol, narcotics, and safety.

Physical Sciences

In the Division of Science and Mathematics

Associate Professors: James N. Javaher and Vladimir S. Tuman

Assistant Professor: Evan M. Thompson

The College confers the degree of Bachelor of Arts, Mathematics and Science with a major in physical science.

The program in the physical sciences provides courses in the disciplines of astronomy, chemistry, geology, and physics. The objectives of these curricula are to prepare students for careers in the respective disciplines of the physical sciences, to provide supporting courses for students whose majors are in related disciplines, to provide courses for the student pursuing a liberal arts program, and to provide preparation for teaching.

REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

Physical science majors are to:

1. Complete the Requirements for the Bachelor of Arts Degree, page 48.
2. Complete prerequisites to the major, page 124.
3. Complete the major of not less than 37 upper division units, page 124.
4. Complete a minor to be selected in consultation with the major adviser. A minor in mathematics is recommended.

DEGREE MAJOR IN PHYSICAL SCIENCE

Prerequisites to the Major

Courses in major field:

PHSC 100. Introduction to Natural Sciences, 4 units

CHEM 101, 102. Principles of Chemistry, 8 units

PHYS 101, 102. Principles of Physics, 8 units

ASTR 200. Descriptive Astronomy, 4 units

Courses in supporting fields:

MATH 120, 121. Analytical Geometry and Calculus, 8 units

The Major

	Units
CHEM 300, 301. Analytical Chemistry	8
CHEM 327, 328, 329. Organic Chemistry	12
GEOL. 200. Principles of Geology	4
PHSC 412. History of Physical Sciences	4

Three of the following as approved by major adviser:

PHYS 311, 312. Analytical Mechanics

PHYS 322, 323. Electromagnetism

PHYS 351. Thermodynamics

PHYS 372. Modern Physics

9-11

Total

37-39

Physical Sciences

SUGGESTED PROGRAM OF STUDY FOR A MAJOR IN PHYSICAL SCIENCE

FRESHMAN					
Fall	Units	Winter	Units	Spring	Units
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Phys. Science 100	4	Chemistry 101	4	Chemistry 102	4
Music 100	4	Art 100	4	Creative Arts 100	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ. 103	½
	<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 16½
SOPHOMORE					
Biol. Science	4	Physics 101	4	Physics 102	4
Psychology 201	4	Math 120	4	Math 121	4
Philosophy 201	4	Elective	4	Astronomy 200	4
Speech 200	4	Pol. Science 201	4	Pol. Science 202	4
Phys. Educ. 201	½	Phys. Educ. 202	½	Phys. Educ. 203	½
	<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 16½
JUNIOR					
Geology 200	4	Chemistry 300	4	Chemistry 301	4
Chemistry 327	4	Chemistry 328	4	Chemistry 329	4
Electives	8	Electives	8	Electives	8
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16
SENIOR					
Physics	4	Physics	3	Phys. Science 412	3-4
Electives	12	Electives	12	Physics	4
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 15-16	Electives	8
					<hr style="width: 50%; margin: 0 auto;"/> 15-16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

DEGREE MINOR IN CHEMISTRY

Consists of 24 units in chemistry as approved by the minor adviser, to include at least 12 units in upper division.

DEGREE MINOR IN PHYSICS

Consists of 21 units in physics as approved by the minor adviser, to include at least 9 units in upper division.

TEACHING CREDENTIALS *

Majors in physical sciences seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree major in physical sciences.
2. Secondary credential candidate must receive approval of the Physical Science Department as to subject matter competence.

* See Division of Education, pages 83-94.

Physical Sciences

Minors in chemistry seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in chemistry; plus additional courses in chemistry to total a minimum of 30 units as recommended by the minor adviser and approved by the credential adviser.
2. Secondary credential candidate must receive approval of the major adviser as to subject matter competence.

Minors in physics seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in physics; plus additional courses in physics to total a minimum of 30 units, as recommended by the minor adviser and approved by the credential adviser.
2. Secondary credential candidate must receive approval of the minor adviser as to subject matter competence.

PREPARATION FOR GRADUATE STUDY

It is recommended that the physical science major who intends to continue study on the graduate level complete a minimum of one year, or the equivalent, of college French, German, or Russian.

COURSE DESCRIPTIONS

ASTRONOMY

Lower Division

ASTR 200. Descriptive Astronomy (4) S *

Topics in development of astronomy: solar system and stars. Lectures, observations, and field trips. (Formerly 300) Prerequisite: Consent of instructor.

Upper Division

ASTR 311. History of Astronomy (4) F *

Progress of astronomy in Europe and United States, and its impact on other sciences and philosophy. Prerequisite: ASTR 200 or consent of instructor.

CHEMISTRY

Lower Division

CHEM 101. Principles of Chemistry I (4) W

Fundamental principles and laws underlying chemical action, developed from the laboratory viewpoint. (Lecture, 3 hours; laboratory, 3 hours) Prerequisites: Two years of high school algebra, and PHSC 100, or consent of instructor.

CHEM 102. Principles of Chemistry II (4) S

Continuation of CHEM 101. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: CHEM 101.

Upper Division

CHEM 300. Analytical Chemistry I (4) W

Principles and practice of chemical analysis. (Lecture, 2 hours; laboratory, 6 hours) Prerequisite: CHEM 102.

CHEM 301. Analytical Chemistry II (4) S

Continuation of CHEM 300; emphasis on instrumental and physical methods. (Lecture, 2 hours; laboratory, 6 hours) Prerequisite: CHEM 300.

* Offered alternate years.

Physical Sciences

CHEM 327. Organic Chemistry I (4) F

Principles, basic techniques, and syntheses. Aliphatic, aromatic, and heterocyclic compounds. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: CHEM 102 or equivalent.

CHEM 328. Organic Chemistry II (4) W

Continuation of CHEM 327; greater emphasis on aromatic and heterocyclic compounds. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: CHEM 327.

CHEM 329. Organic Chemistry III (4) S

Continuation of CHEM 328; natural products and reaction mechanisms. (Lecture, 3 hours; laboratory, 3 hours) (Formerly 328) Prerequisite: CHEM 328.

CHEM 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

GEOLOGY

Lower Division

GEOL 200. Principles of Geology (4) F *

Structure and materials of the outer portion of the earth, and geologic processes responsible for sculpturing the earth of today. Non-technical study of rocks, minerals, fossils; origin, geologic history, and evolution of life on earth. (Lectures, demonstrations, and field trips)

GEOL 221. Descriptive Mineralogy (3) S *

Physical and chemical properties of minerals; deals with description and determination of minerals on basis of their physical properties. (Lectures, laboratory, and field trips) Prerequisite: CHEM 102 or equivalent.

PHYSICAL SCIENCE

Lower Division

PHSC 100. Introduction to Natural Sciences (4) F

Principles and concepts of physics and chemistry which are common and basic to the natural sciences. Evaluation and correlation of experimental and observational data with the development and modification of scientific theories. No prerequisites.

Upper Division

PHSC 412. History of Physical Sciences (4) S *

Development of the physical sciences from beginning to present; influence of science upon developments of philosophy, technology, culture, and civilization. Prerequisites: Minimum of 8 units in the physical sciences, or consent of instructor.

PHYSICS

Lower Division

PHYS 101. Principles of Physics I (4) W

Mechanics and Heat. Force, equilibrium, uniform and accelerated motion, work, momentum, and energy; properties of matter, heat, and temperature. Recommended for general students and for students preparing for biology or medicine. (Lecture, 3 hours; laboratory, 3 hours) Prerequisites: Two years of algebra at the high school level.

* Offered alternate years.

Physical Sciences

PHYS 102. Principles of Physics II (4) S

Electricity and Optics. Electric charges and currents, magnetism, induced currents; wave motion, interference, diffraction, geometrical optics. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: PHYS 101.

Upper Division

PHYS 311. Analytical Mechanics I (3) F, W

Basic principles of mechanics with applications to central force and harmonic oscillator problems; study of statics and dynamics of rigid bodies. Prerequisites: MATH 224 and PHYS 102.

PHYS 312. Analytical Mechanics II (3) W

Continuation of PHYS 311. (Formerly 311) Prerequisite: PHYS 311.

PHYS 322. Electromagnetism I (3) F, W

Fundamental principles, their application to both direct current and alternating current circuit theory. Introduction to Maxwell's electromagnetic theory of light and radio waves. Prerequisites: MATH 321 and PHYS 102.

PHYS 323. Electromagnetism II (3) S

Continuation of PHYS 322. (Formerly 322) Prerequisite: PHYS 322.

PHYS 324. Electrical Measurements (3) S

Theory and use of electrical instruments. Measurements of direct and alternating current circuits, mutual and self-inductance, capacitance, magnetism and hysteresis. (Lecture, 1 hour; laboratory, 6 hours) Prerequisite: PHYS 322 or concurrent enrollment.

PHYS 351. Thermodynamics (4) F

Expansion of matter, transmission of heat, specific heat, temperature, change of state, kinetic theory, Van der Waals equation. Prerequisites: MATH 223 and PHYS 102.

PHYS 372. Modern Physics (4) S

Significant developments in physics arising from the discovery of the electron, X-rays, and radioactivity. Prerequisites: MATH 222 and PHYS 102.

Political Science

In the Division of Social Sciences

Professor: John E. Caswell

Assistant Professor: Darryl B. Baskin

The College offers a Bachelor of Arts, Social Sciences, with an inter-departmental major in political science and any other discipline within the social sciences. The student may arrange his program to attain such objectives as: (1) a broad knowledge of political institutions and issues as an essential element of a liberal arts education; (2) a basic knowledge of the techniques of government for those desiring a career in public administration or foreign service; (3) pre-professional training for law school; (4) a fundamental knowledge of political science as preparation for teaching; and (5) specialization in political science for graduate level study.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

See Social Sciences Division, Requirements for Bachelor of Arts, page 133.

DEGREE MINOR IN POLITICAL SCIENCE

Twenty-four units approved by the minor adviser are required, including at least 16 units in upper division courses.

TEACHING CREDENTIALS *

Majors in social sciences seeking elementary and secondary credential, see page 134.

Minors in political science seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in political science; plus additional courses in political science to total a minimum of 30 units, as recommended by the minor adviser and approved by the credential adviser.
2. Secondary credential candidate must receive approval of the Political Science Department as to subject matter competence.

COURSE DESCRIPTIONS

Lower Division

PSCI 201. Introduction to History of American Political Thought (4) W Not offered 1965-66

American political ideas from Puritanism to the present. Meets U.S. Constitution and American history requirements for General Education.

PSCI 202. American Government (4) F, S

Analysis of the structure, powers, and functions of American Government through the problem approach. Meets U.S. Constitution and California State and Local Government requirements for General Education. (Formerly 101)

* See Division of Education, pages 83-94.

Political Science

PSCI 213. Comparative Government (4) W

Survey of governments and politics of France, Germany, Great Britain, and the Soviet Union. (Formerly 301) Prerequisite: PSCI 202 or consent of instructor.

Upper Division

PSCI 311. British Government and Politics (4) F

Organization and operation of the government of Great Britain with particular reference to contemporary British political issues. Prerequisite: PSCI 213 or consent of instructor.

PSCI 312. Governments of Western Europe (4) W

Analysis and evaluation of parties, constitutional systems, political practices, and political trends of France and West Germany since World War II. Prerequisite: PSCI 213 or consent of instructor.

PSCI 313. Government of the Soviet Union (4) F

Soviet political institutions: emphasis on the Communist Party, governmental apparatus, and control devices within the Soviet system. Prerequisite: PSCI 213 or consent of instructor.

PSCI 321. Ancient and Medieval Political Thought (4) F

Historical development of political philosophy from ancient times to seventeenth century.

PSCI 322. Modern Political Thought (4) W

Political thought from seventeenth century to present, with emphasis on such European philosophers as Hobbes, Locke, Rousseau, and Marx. Background in European history desirable.

PSCI 323. American Political Thought (4) S

Main trends of American political thinking from colonial times to present. Meets U.S. Constitution requirement for General Education. Prerequisite: Course in American history or consent of instructor.

PSCI 330. Contemporary World Problems (4) S

Background of important international political issues of nuclear age.

PSCI 351. Political Parties (4) F

Critical analysis of the political party as a part of the process of government: party organization and activities, campaign methods, and party responsibility. Prerequisite: PSCI 202 or consent of instructor.

PSCI 433. American Foreign Policy (4) W

United States governmental machinery for conduct of American foreign relations, and analysis of twentieth century foreign policy with emphasis on post-World War II period. Background in recent American history desirable but not required.

PSCI 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

Psychology

In the Division of Social Sciences

Professor: Edwin D. Lawson, Head

Associate Professor: Lloyd H. Ahlem

Assistant Professor: Jerome J. Beamish

The College offers a Bachelor of Arts, Social Sciences, with an inter-departmental major in psychology and any other discipline within the social sciences.

The central goal in the study of psychology is the development of an adequate understanding of human behavior and experience and the application of psychological findings to the problems and activities of everyday life.

The curriculum in psychology may serve as an element of a liberal arts education, as preparation for a variety of professions, or as preparation for specialization in graduate study.

REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

See Division of Social Sciences, Requirements for Bachelor of Arts, page 133.

DEGREE MINOR IN PSYCHOLOGY

Twenty-four units approved by the minor adviser are required, including at least 16 units in upper division courses.

TEACHING CREDENTIALS *

Majors in social sciences seeking elementary and secondary credentials, see page 134.

* Minors in psychology seeking elementary and secondary credentials must fulfill the following requirements:

1. Degree minor in psychology; plus additional courses in psychology to total a minimum of 30 units, as recommended by the minor adviser and approved by the credential adviser.
2. Secondary credential candidate must receive approval of the minor adviser as to the subject matter competence.

COURSE DESCRIPTIONS

Lower Division

PSYC 201. Introduction to Psychology (4) F, S

Scientific study of human behavior. (Formerly 101)

PSYC 202. History and Systems of Psychological Thought (4) W

Nature and role of theory in psychology; its historical development from ancient times to the present-day. Prerequisite: PSYC 201 or equivalent.

* See Division of Education, pages 83-94. Before electing to pursue this minor the student seeking a secondary credential should consult with a credential adviser as to possibilities of student teaching and professional placement.

Psychology

Upper Division

PSYC 305. Experimental Psychology (4) W

Application of experimental methods in the study of behavior. Lectures and two-hour weekly laboratory. Prerequisites: PSYC 201, and 331.

PSYC 309. Comparative Psychology (4) W

The comparative method in the study of psychological problems; evolution of behavior and its mechanisms from protozoa to man. Prerequisite: PSYC 305.

PSYC 311. Child Psychology (4) F

Development of behavior patterns in children from conception to twelve years of age. Prerequisite: PSYC 201 or equivalent.

PSYC 312. Psychology of Adolescence (4) W

Characteristics prominent in the adolescent. Prerequisite: PSYC 201 or equivalent.

PSYC 321. Mental Hygiene (4) S

Principles of mental hygiene; maintenance and enhancement of mental health. Theories of human adaptation. Prerequisite: PSYC 201 or equivalent.

PSYC 331. Psychological Statistics (4) F

Statistical methods applied to the behavioral sciences. Prerequisite: MATH 160.

PSYC 421. Abnormal Psychology (4) S

Psychology of abnormal behavior: neurosis and psychosis, stressing etiology, symptoms, dynamics, diagnosis and treatment. Prerequisite: PSYC 201.

PSYC 431. Social Psychology (4) F

Social behavior and interaction as related to race, culture, language, development of attitudes, prejudices, and opinions. Prerequisite: PSYC 201 or equivalent.

PSYC 432. Personality Theory (4) F, S

Theoretical structure of human personality. Implications of research for understanding personality. Prerequisite: PSYC 201 or equivalent.

PSYC 441. Applied Psychology (4) W

Application of psychological principles to business and industry. Prerequisites: PSYC 201, 331, 431, 432.

PSYC 461. Group Psychological Testing (4) S

Basic concepts of psychological measurement as applied in construction, evaluation, and use of group-administered tests of intelligence, aptitude, interest, and personality. (Formerly 561) Prerequisites: PSYC 201, 331.

PSYC 471. Theory and Research in Learning (4) W

Major theoretical systems of learning; basic research in establishing principles of the learning process. Prerequisites: PSYC 201 and 331 or equivalents.

PSYC 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

Graduate

PSYC 598. Individual Study (3-5) F, W, S

For qualified graduate student in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

Division of Social Sciences

Associate Professor: David Bentheim Stenzel, Chairman
Professor: John E. Caswell

The central problem basic to the various social science disciplines is the study of man in society. Study in the social sciences is pertinent to the liberal arts background for all students.

The student seeking a Bachelor of Arts, Social Sciences may select an interdepartmental major in social sciences. A major in the social sciences may serve as the central element of a liberal arts education, as the academic major for the teaching credential, as preparation for a variety of professions, or as preparation for specialization in graduate study.

REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

Social Science Interdepartmental majors are to:

1. Complete the Requirements for the Bachelor of Arts Degree, page 48.
2. Complete the major of not less than 40 upper division units in two of the following disciplines: anthropology (subordinate field only), economics, history, political science, psychology, and sociology. Of these 40 units, at least 24 units must be in one discipline and at least 16 units must be in another discipline. Prerequisites to the major are a minimum of 8 lower division units in each of the two disciplines selected for the major.
3. Complete a minor to be selected in consultation with the major adviser.
4. Recommendation: Two years of college level foreign language or equivalent.

SUGGESTED PROGRAM OF STUDY FOR AN INTERDEPARTMENTAL MAJOR IN SOCIAL SCIENCES

FRESHMAN					
Fall		Winter		Spring	
	<i>Units</i>		<i>Units</i>		<i>Units</i>
English 101	4	English 102	4	English 103	4
History 101	4	History 102	4	History 103	4
Phys. Science 100	4	Science	4	Science	4
Art 100	4	Music 100	4	Creative Arts 100	4
Phys. Educ. 101	½	Phys. Educ. 102	½	Phys. Educ. 103	½
	<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 16½

Social Sciences

SOPHOMORE					
Fall	Units	Winter	Units	Spring	Units
Soc. Sci. Field or elective	4	Soc. Sci. Field or elective	4	Speech 200	4
Science	4	Pol. Science 201	4	Pol. Sci. 202	4
* Soc. Sci. Field or Foreign Language	4	* Soc. Sci. Field or Foreign Language	4	* Elective or Foreign Language	4
Psychology 201	4	Mathematics	4	Philosophy 201	4
Phys. Educ. 201	½	Phys. Educ. 202	½	Phys. Educ. 203	½
	16½		16½		16½
JUNIOR					
Soc. Sci. Principal Field	4	Soc. Sci. Subordinate Field	4	Soc. Sci. Subordinate Field	4
Soc. Sci. Subordinate Field	4	Electives	12	Electives	12
Electives	8				
	16		16		16
SENIOR					
Soc. Sci. Principal Field	8	Soc. Sci. Principal Field	8	Soc. Sci. Principal Field	8
Soc. Sci. Subordinate Field	4	Electives	4-8	Electives	4-8
Electives	4				
	16		12-16		12-16

The attention of the student and adviser is directed to the use of "electives" in fulfilling General Education requirements not specifically included above. See General Education Requirements, page 48.

DEGREE MINOR IN SOCIAL SCIENCES

A divisional minor in social sciences is not offered. For requirements for minors in the social sciences, see sections of this catalog pertaining to anthropology, economics, history, political science, psychology, and sociology.

TEACHING CREDENTIALS

Majors in social sciences seeking elementary and secondary credentials:

1. For students seeking the General Elementary teaching credential, the Inter-Departmental Major in social sciences is recommended. (See page 133 and Division of Education, pages 83-94.)
2. For students seeking the General Secondary teaching credential, the degree major in history is recommended. (See page 105.)
3. Students seeking the General Secondary teaching credential who elect the interdepartmental major must have at least 20 upper division units in history or political science.

* If student does not take foreign language in the sophomore year he should take it in the junior year.

COURSE DESCRIPTIONS

Upper Division

SOSC 437. World Political Geography (4) W

Influence of geographical character and location, economic resources, peoples and culture of nations on their international power.

SOSC 491. Research Methods and Materials (4) F

Foundations in bibliography and methods. Critical analysis and evaluation of sources, design of research, questionnaires and interviews, and statistical treatment conducted as a seminar.

SOSC 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized interdisciplinary study in the social sciences. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

Graduate

SOSC 598. Individual Study (3-5) F, W, S

For qualified graduate student in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

Sociology-Anthropology

In the Division of Social Sciences

Associate Professor: Cecil L. French

Instructor: Keith W. Crow

The College offers a Bachelor of Arts, Social Sciences, with an inter-departmental major in sociology or anthropology and any other discipline within the social sciences. The student may arrange his program to attain background for professional roles in social welfare services, correctional institutions, mental health services and institutions, probation and parole work.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

See Social Sciences Division, Requirements for Bachelor of Arts, page 133.

DEGREE MINOR IN SOCIOLOGY OR ANTHROPOLOGY

Twenty-four units approved by the minor adviser are required, including at least 16 units in upper division courses.

TEACHING CREDENTIALS *

Major in social sciences for elementary and secondary credentials, see page 134.

* Minor in sociology or anthropology for elementary and secondary credentials must complete the following:

1. Complete requirements for degree minor in sociology or anthropology; plus additional courses in the field of the minor to total a minimum of 30 units, as recommended by the minor adviser and approved by the credential adviser.
2. Secondary credential candidate must receive approval of the minor adviser as to subject matter competence.

COURSE DESCRIPTIONS

ANTHROPOLOGY

Lower Division

ANTH 201. Cultural Anthropology (4) F Not offered 1965-66

Meaning of culture, its diversity and degrees of elaboration among different peoples; organization and functioning of cultures. This course or its equivalent is a prerequisite for 300 and 400 level courses.

ANTH 211. Physical Anthropology (4) F Not offered 1965-66

Human physical development, racial differentiation and distinctions, fossil man, principles in human evolution. Research techniques in physical anthropology.

* See Division of Education, pages 83-94. Before electing to pursue this minor the student seeking a secondary credential should consult a credential adviser as to possibilities of student teaching and professional placement.

Sociology-Anthropology

Upper Division

ANTH 301. General Archeology (4) W Not offered 1965-66

Survey of major developments in world prehistory, methods of archeology, geological and biological backgrounds of paleolithic man, prehistory of man in the Western hemisphere.

ANTH 311. Methods in Ethnology (4) W Not offered 1965-66

Field work procedures in community studies. Theory, methods and validation of cross-cultural surveys, and the basic source materials. Prerequisite: ANTH 201 or consent of instructor.

ANTH 323. Method and Theory in Archeology (4) S Not offered 1965-66

Field techniques and procedures in archeology. Dating and classification of archeological materials. Attention to primary theories of human prehistory. Prerequisite: ANTH 201 or consent of instructor.

ANTH 331. Indians of the West Coast (4) W Not offered 1965-66

Examination of selected Indian cultures of California and the West Coast. (Formerly 321) Prerequisite: ANTH 201 or consent of instructor.

ANTH 332. Man and Culture (4) S Not offered 1965-66

Man in relation to his culture; emphasis on non-material culture and linguistic, symbolic, and value systems. Prerequisite: ANTH 201 or consent of instructor.

ANTH 411. Community Studies (4) F Not offered 1965-66

Theory and methods in the study of primitive and contemporary communities in their cultural context. Prerequisite: ANTH 201 or consent of instructor.

ANTH 421. Cultural Dynamics (4) S Not offered 1965-66

Cultural stability and change; with reference to geographical base, innovation, invention, and technology. Prerequisite: ANTH 201 or consent of instructor.

ANTH 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

SOCIOLOGY

Lower Division

SOCL 201. Introduction to Sociology (4) F

Fundamental concepts, methods, and empirical findings of sociology. This course or its equivalent is a prerequisite for 300 and 400 level courses.

Upper Division

SOCL 301. Race and Ethnic Group Relations (4) S

The sociology of minority group relations; with attention to specific racial, ethnic, and religious minorities. Special emphasis on the status of the American Negro minority. Prerequisite: SOCL 201 or consent of instructor.

SOCL 321. American Society (4) S

Analysis of American society; major structural characteristics and their functions; major changes, trends, and contemporary social problems examined in their relation to institutional structures. Prerequisites: SOCL 201 or consent of instructor.

Sociology-Anthropology

SOCL 331. Social Stratification (4) F

Origins, characteristics, and functions of social classes and castes; emphasis on recent research and theoretical developments. Prerequisites: SOCL 201 or consent of instructor.

SOCL 342. Population Theory and Research (4) W

World population theory and empirical studies from Malthus to the present, natality and mortality trends, basic sources of data and their research uses. Prerequisites: SOCL 201 or consent of instructor.

SOCL 351. Human Ecology (4) S

Examination of differential distribution and density of human populations with attention to social implications. World and U.S. ecological trends and urbanization; emphasis on contemporary U.S. Prerequisite: SOCL 201 or consent of instructor.

SOCL 361. The Small Group (4) F

Structure and dynamics of the small human group, with emphasis on modern theory, research methods and empirical findings. Prerequisite: SOCL 201 or consent of instructor.

SOCL 371. Community Organization (4) F

Social structure of the community, with special attention to the contemporary U.S. community. Formal and informal power structure, social stratification, and communication network. Attention to recent research. Prerequisite: SOCL 201 or consent of instructor.

SOCL 424. Social Deviance and Control (4) W

Examination of the normative structure and control mechanisms of the social system. Theories of deviant behavior, and relevant modern research. Prerequisite: SOCL 201 or consent of instructor.

SOCL 432. Sociology of Religion (4) F

Sociological analysis of religious belief and behavior, classic theories of religion, recent research methods and empirical findings. Prerequisite: SOCL 201 or consent of instructor.

SOCL 441. Modern Sociological Theory (4) S

Major contributions to systematic sociological theory from Durkheim to Parsons. Theories of social structure and social change. Aspects of theory-building. Prerequisite: SOCL 201 or consent of instructor.

SOCL 451. Personality, Culture, and Social Structure (4) F

Relations between personality and social structure in a cultural context. Socialization and the allocation of status. Research methods and empirical findings. Prerequisite: SOCL 201 or consent of instructor.

SOCL 498. Individual Study (3-4) F, W, S

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 9 units. Prerequisite: Consent of instructor.

FACULTY

- Capurso, Alexander (1963) President;
 Professor of Humanities and Fine Arts
 B.S., 1933; M.A., 1934; Ph.D., 1938, University of Kentucky; Doctor of Music
(Honoris Causa), 1957, Philadelphia Musical Academy
- Ahlem, Lloyd H. (1962) Associate Professor of Psychology and Education
 A.B., 1952; M.A., 1955, San Jose State College; Ed.D., 1962, University of Southern
 California; Certified Psychologist, 1959, State of California
- Aubert, Edward J. (1961) Associate Dean, Admissions and Records
 B.S., 1956, University of San Francisco; M.B.A., 1961, University of California,
 Berkeley
- *Austin, David E. (1963) Lecturer in Education
 A.B., 1949; M.A., 1951, Eastern Washington State College; Ed.D., 1955, Colorado
 State College
- Balbo, Frank C. (1964) Business Manager
 B.S., 1937, University of California, Berkeley
- Barrett, Thomas P. (1961) Assistant Professor of Management and Marketing
 B.A., 1954, Northeastern University; M.A., 1958, Michigan State University
- Baskin, Darryl B. (1965) Assistant Professor of Political Science
 B.A., 1958; M.A., 1961, University of California, Berkeley
- Beamish, Jerome J. (1964) Associate Dean, Counseling and Testing
 Assistant Professor of Psychology
 B.A., 1957, Sir George Williams University; M.A., 1958; Ph.D., 1962, Columbia
 University
- Bennett, Agnes L. (1961) Librarian II
 A.B., 1951, Luther College; A.M.L.S., 1952, University of Michigan
- Berkoben, Lawrence D. (1963) Assistant Professor of English
 B.A., 1957, Pennsylvania State University; M.A., 1958, Ohio University; Ph.D.,
 1963, University of Washington
- Bevans, Lloyd E. (1960) Professor of Education
 A.B., 1936, Iowa State College; M.A., 1938, University of Iowa; Ed.D., 1951,
 Stanford University
- *Beyer, Fred C. (1963) Lecturer in Education
 B.A., 1929, Valley City Teachers College; M.A., 1937, Stanford University
- Bruggman, Joseph E. (1960) Dean of Student Affairs;
 Professor of Music
 B.A., 1941, San Jose State College; M.A., 1947; Ed.D., 1949, Columbia University
- Camajani, Giovanni (1964) Visiting Associate Professor of Music
 B.A., 1937; M.A., 1942; Ph.D., 1945, New York University
- Camarata, Martin L. (1964) Assistant Professor of Art
 B.S., 1956, New York State University College at Buffalo; M.A., 1957, New York
 University

* Part time.

Faculty

- Caswell, John E. (1960) Professor of Social Science
B.A., 1934; M.A., 1937, University of Oregon; Ph.D., 1952, Stanford University
- *Chapman, Roger W. (1960) Lecturer in Education
B.A., 1936; M.A., 1939; Ed.D., 1951, Washington State University
- Coil, Charles, Jr. (1965) Personnel Officer
A.B., 1964, Stanford University
- Cole, James C. (1964) Associate Professor of Education
A.B., 1947; M.A., 1948, Stanford University; Ed.D., 1956, Teachers College
Columbia University
- * Corder, Reginald A. (1962) Lecturer in Education
B.A., 1945, Washburn College; M.A., 1946, George Peabody College for Teachers
- Crow, Keith W. (1964) Instructor in Sociology
B.A., 1953, Reed College; M.A., 1964, University of Oregon
- Crowley, Gerard J. (1960) Executive Dean;
Professor of Management
A.B., 1942, Loyola College; Ed.M., 1951, Boston University
- Driggs, Don W. (1961) Associate Professor of Political Science
Assistant to the President
B.S., 1950, Brigham Young University; M.A., 1955; Ph.D., 1956, Harvard University
- * Elliott, Robert T. (1961) Lecturer in Education
B.A., 1934, San Jose State College; M.A., 1938; Ed.D., 1958, University of
California, Berkeley
- Farrar, Charles R. (1960) Associate Professor of Education
B.A., 1949; M.A., 1950, Humboldt State College; Ed.D., 1963, Stanford University
- Foster, John L. (1964) Supervisor of Buildings and Grounds
B.S., 1934, U.S. Naval Academy
- French, Cecil L. Associate Professor of Sociology-Anthropology
A.B., 1951; M.A.; Ph.D., 1958, Washington University
- Galloway, R. Dean (1960) College Librarian
A.B., 1947, Humboldt State College; M.S., 1950, University of Southern California
- Ghiglieri, Sylvia M. (1961) Assistant Professor of Music
B.M., 1954, Dominican College; Diploma, Music Academy of the West at Santa
Barbara, 1954; Conservatoire de la Musique at Fontainebleau, France, 1955;
M.M., 1960, University of the Pacific
- Gill, John M. (1965) Associate Professor of English
B.A., 1947; M.A., 1950, University of Washington; Ph.D., 1964, New York
University
- Grillos, Steve J. (1965) Professor of Botany
B.S., 1951, University of Denver; M.S., 1952, University of Wyoming; Ph.D.,
1956, Oregon State College.
- Hackwell, Glenn A. (1961) Assistant Professor of Biology
B.S., 1957, M.S., 1958, Brigham Young University

* Part time.

Faculty

- Hanson, James C. (1960) _____ Assistant Professor of Biology
B.A., 1955; M.A., 1957, University of the Pacific
- Hensley, Charles S. (1965) _____ Assistant Professor of English
A.B., 1942; A.M., 1943, Washington University; Ph.D., 1958, University of Missouri
- Holder, Frank C. (1965) _____ Assistant Professor of History
B.A., 1949; M.A., 1951; Ph.D., 1962, University of California, Berkeley
- Javaher, James N. (1961) _____ Associate Professor of Mathematics and Physics
LL.B., 1946, University of Tehran; A.B., 1950, San Jose State College; M.A., 1952, University of California, Berkeley; B.S., 1954, Stanford University; Sc.D., 1960, University of Paris
- Jensen, James P. (1961) _____ Assistant Professor of Humanities-English
B.A., 1953; M.A., 1957; Ph.D., 1964, University of Washington
- Johnson, Lola V. (1960) _____ Assistant Professor of English
B.A., 1956; M.A., 1959, University of the Pacific
- * King, Ben F., Jr. (1964) _____ Lecturer in Education
A.B., 1939, San Jose State College; M.A., 1953, University of California, Berkeley
- Kottke, Frederick E. (1963) _____ Associate Professor of Economics
B.S., 1952, Pepperdine College; M.A., 1957, University of Wisconsin; Ph.D., 1960, University of Southern California
- Lawson, Edwin D. _____ Professor of Psychology
A.B., 1948; A.M., 1949; Ph.D., 1954, University of Illinois
- McClintock, William F. (1963) _____ Associate Dean, Educational Services and
Summer Session, Associate Professor of Education
A.B., 1937, Occidental College; M.A., 1949; Ph.D., 1957, Claremont Graduate School
- McManus, Betty D. (1965) _____ Counselor and Test Officer
B.A., 1948, University of Miami; M.Ed., 1960, Xavier University
- Norton, Max C. (1961) _____ Associate Professor of Speech
B.A., 1951; M.A., 1955, University of the Pacific; Ph.D., 1962, University of Denver
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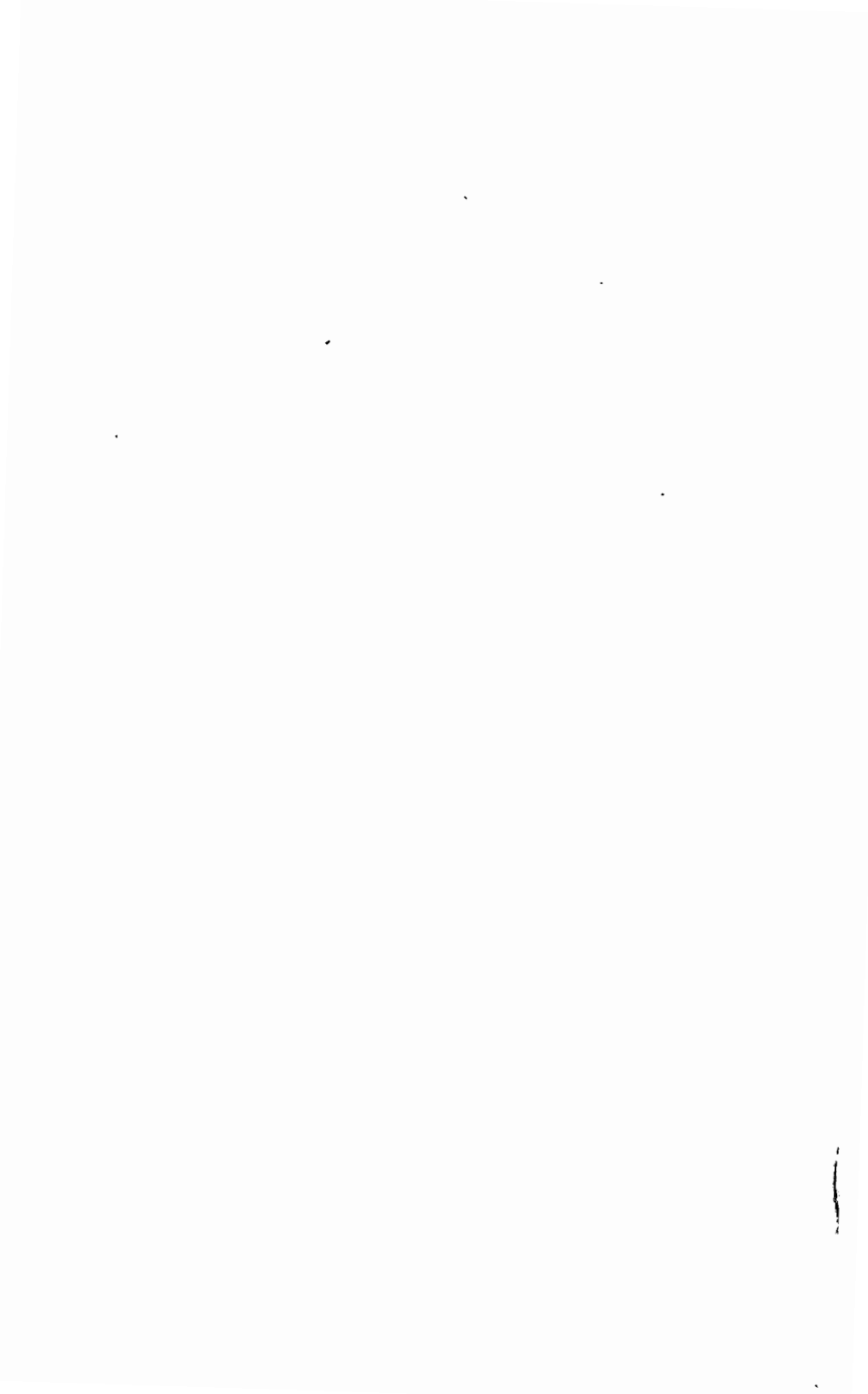
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INDEX

- Academic advising, 30-31
- Academic calendar, 7-10
- Academic standards
deans' list of honor students, 31
grading system, 31
scholarship standards, 32-33
- Admission to the college
as a freshman, 22-23
as an undergraduate
applicants 90 or more quarter units, 24
applicants fewer than 90 quarter units, 25
other applicants, 25
transfer, 24-25
- California high school graduates and residents, 23-24
- evaluation and acceptance of credit
extension and correspondence courses, 30
military service, 30
non-accredited college, 29
transfer from junior college, 29
workshop, 30
- graduates of high school in foreign country, 24
- graduate students, 25
- non high school graduates, 24
- non-residents graduating from high schools
in other states or possessions, 24
- other applicants, 24
- procedure
admission examination, 28
application fee, 26
health history statement and examination, 28
statement of residence, 29
transcripts required, 27
when to apply, 26
who need apply, 25
- requirements, 22
- students formerly enrolled, 25
- Announcement of courses, 55
- Art
course descriptions, 59-61
general requirements for art major and minor, 57-59
requirements for bachelor of arts degree, 57
teaching credentials, 59
- Biological sciences
course descriptions, 64-67
degree major in biological sciences, 62-63
degree minor in biological sciences, 63
preparation for graduate study, 64
requirements for bachelor of arts degree, 62
teaching credentials, 64
- Business administration
course descriptions, 71-73
degree major in business administration, 68-70
degree minor in business administration, 71
recommended lower division preparation, 68
requirements for bachelor of arts degree, 68
teaching credentials, 71
- California state colleges
appointed trustees, 11
California state colleges, 13
ex officio trustees, 11-12
history, 14
office of the chancellor, 12
officers of the trustees, 12
- Communication Arts and Sciences
course descriptions, 77-79
degree major in speech drama, 74-75
degree minor in speech drama, 76
recommendations for specialization in speech and hearing handicapped, 76
requirements for bachelor of arts degree, 74
teaching credentials, 76
- Course numbering system, 56
- Economics
course descriptions, 81-82
degree minor in economics, 80
requirements for bachelor of arts degree, 80
teaching credentials, 80
- Education
academic majors and minors for teaching credentials, 87-88
admission to credential program, 85
admission to student teaching, 86
course descriptions, 89-94
credential programs started prior to summer session 1965, 83
general education requirements for teaching credentials, 84-85
professional education programs leading to standard teaching credentials, 88-89
professional programs in education, 83
quarter system adjustment, 84
substitution of teaching experience, 86-87
- English
course descriptions, 97-99
degree major in English, 95-96
degree minor in English, 96-97
requirements for bachelor of arts degree, 95
teaching credentials, 97
- Faculty, 139-143
- Fees and Refunds
nonresident students, 39
other fees and charges, 38-39
refund regulations, 39
registration fees, 38
- Foreign languages
course descriptions, 103-104
degree major in French, 102
degree major in Spanish, 100-101
degree minor in Spanish, 101-102
foreign language competency examination, 100
requirements for bachelor of arts degree, 100
teaching credentials, 102

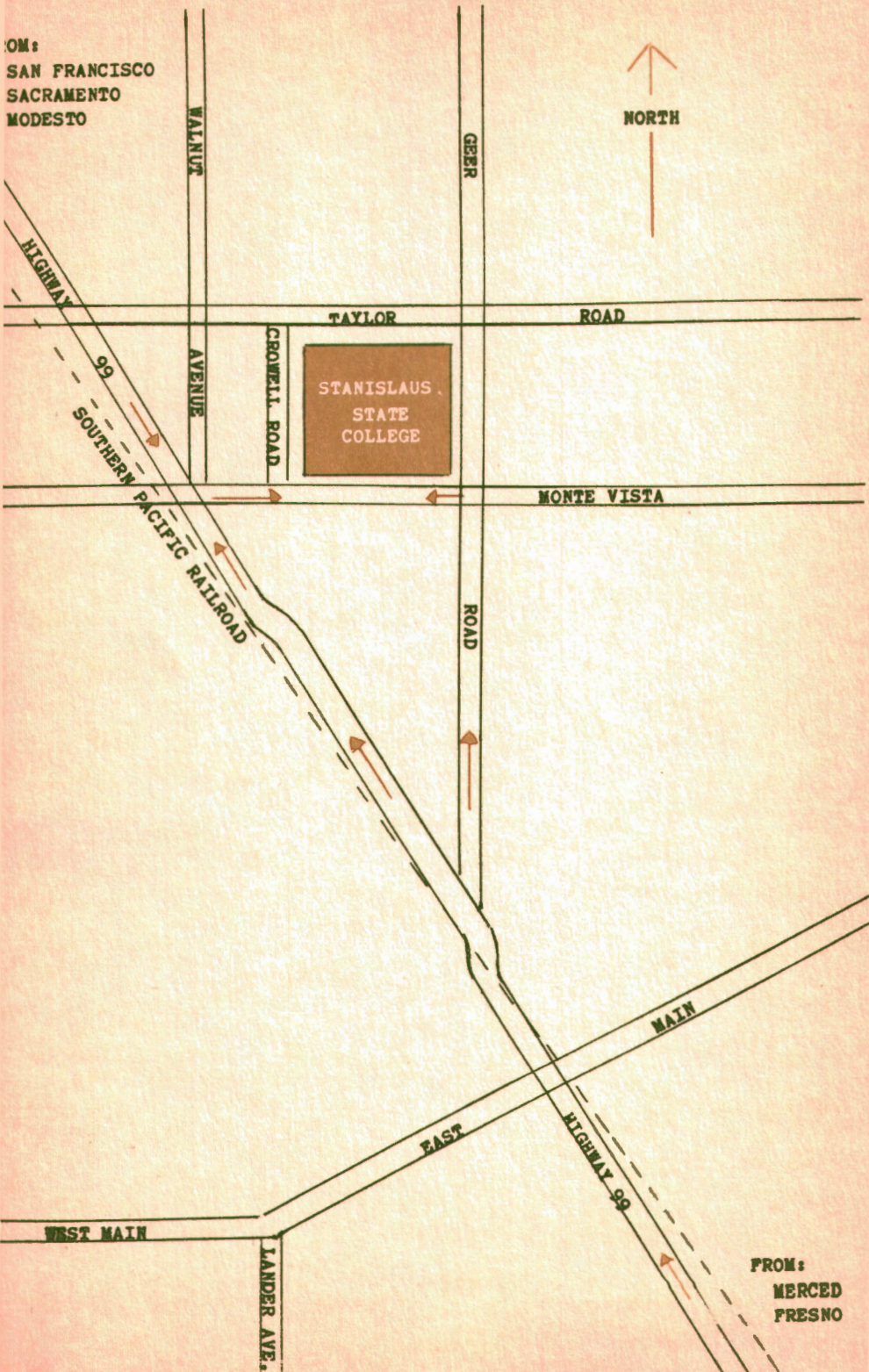
INDEX—Continued

- General information
 accreditation, 19
 degree and credential programs, 19
 history of the college, 17
 international programs, 21-22
 liberal arts base for entering freshman, 18
 library, 20
 master's degree, 19
 philosophy and objectives of the college, 17-18
 quarter system, 19-20
 summer session and extension, 21
- General requirements for degrees
 all college regulations, 52
 departmental and divisional requirements, 52
 general education, 48
 major, 50-51
 minor, 51-52
 requirements for bachelor of arts degree, 48
 requirements for freshmen, 48-49
 requirements for transfers, 49-50
- History
 course descriptions, 107-109
 degree major in history, 105-106
 degree minor in history, 107
 requirements for bachelor of arts degree, 105
 teaching credentials, 107
- Mathematics
 course descriptions, 112-114
 degree major in mathematics, 110
 degree minor in mathematics, 111
 requirements for bachelor of arts degree, 110
 teaching credentials, 111-112
- Music
 course descriptions, 118-121
 degree major in music, 116
 degree minor in music, 117-118
 general requirements for music major and minor, 115-116
 group performance course credit, 118
 music courses for non-majors, 118
 requirements for the bachelor of arts degree, 115
 teaching credentials, 118
- Philosophy
 course descriptions, 122
 degree minor in philosophy, 122
- Physical education and health
 course descriptions, 123
- Physical sciences
 course descriptions, 126-128
 degree major in physical science, 124
 degree minor in chemistry, 125
 degree minor in physics, 125
 preparation for graduate study, 126
 requirements for bachelor of arts degree, 124
 teaching credentials, 125-126
- Political sciences
 course descriptions, 129-130
 degree minor in political science, 129
 requirements for bachelor of arts degree, 129
 teaching credentials, 129
- Psychology
 course descriptions, 131-132
 degree minor in psychology, 131
 requirements for bachelor of arts degree, 131
 teaching credentials, 131
- Policies and Procedures
 attendance of classes, 33
 auditors, 33
 change of official program, 35-36
 concurrent enrollment, 33-34
 credit by examination, 34
 declaration of change of major or minor, 35
 graduate level credit, 35
 grade reports to students, 37
 incomplete work, 37
 individual study courses, 34-35
 leave of absence, 36
 official program limits, 34
 petitions, 38
 postbaccalaureate credit, 35
 student classification, 37
 transcripts, 38
 withdrawal from college, 36
- Registration, 30
- Requirements for an additional baccalaureate degree, 52
- Social sciences
 course descriptions, 135
 degree minor in social science, 134
 requirements for bachelor of arts degree, 133
 teaching credentials, 134-135
- Sociology-Anthropology
 course descriptions, 136-138
 degree minor in sociology or anthropology, 136
 requirements for bachelor of arts degree, 136
 teaching credentials, 136
- Stanislaus State College
 administration, 15
 advisory board, 15
 business management, 16
 library, 16
 secretarial staff, 16
 student personnel services, 16
- Student affairs
 alumni, 46
 college foundation, 47
 counseling and testing service, 40-41
 graduate record examinations, 46
 housing, 43
 national defense student loan program, 41-42
 placement, 44-45
 scholarship and loans, 41
 student activities, 44
 student conduct and responsibility, 44
 student health, 43
 veterans assistance, 42

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