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ANNE CHARLESTON

ART 1100. Design I, Fall 1975
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A MOST UNUSUAL DAY
FEBRUARY 5, 1976
In the Fall of 1976, California State College, Stanislaus will begin the fourth year under a "4-1-4" academic calendar. Response to the program in its first years has been enthusiastic, especially to the wide variety of innovative courses offered. Plans for the coming year promise an even more attractive program for 1976-77.

Under 4-1-4, the academic year consists of two 13-week semesters and a month-long Winter Term beginning in January. Fall Semester ends before Christmas break and Spring Semester finishes in early June. A typical student load is four courses in the Fall, one during Winter Term, and four in the Spring—hence "four-one-four."

Although in the course of an academic year, the 4-1-4 calendar is exactly equivalent to traditional semester or quarter programs in terms of instructional weeks (30), credit units earned, teaching loads, and registration fees, the unique structure of the 4-1-4 year provides greater opportunities for an innovative and challenging curriculum.

The most exciting dimension of 4-1-4 is the month-long Winter Term in which both students and faculty concentrate on one course or project. Winter Term is tangible evidence of the College's commitment to intellectual inquiry and creative pedagogy. To further stimulate academic innovation and to encourage students to explore unfamiliar disciplines, Winter Term courses and projects are graded on a Credit/No Credit basis. Winter Term courses are required for graduation as an integral part of the 4-1-4 calendar.

During the Winter Term both teacher and learner have an unusual chance for intensive, uninterrupted pursuit of a single subject. This concentration of time, resources, and energy in itself constitutes a new intellectual experience for most undergraduates. Furthermore, Winter Term policy at Cal State Stanislaus facilitates interdisciplinary teaching and learning, invites off-campus field work and research, allows students to propose courses or projects, and permits foreign study via off-campus courses. (See Winter Term Bulletin.)

Cal State Stanislaus is the first public, four-year institution of higher learning in California to adopt a 4-1-4 calendar.
ACADEMIC CALENDAR, 1976-1977

SUMMER SESSIONS 1976

First Session--June 14 - July 23

April 1-June 14, Thursday
  through Monday . . . . Regular registration period
June 14, Monday . . . . Instruction begins
June 15-21, Tuesday
  through Monday . . . . Late registration period ($5 late fee)
June 21, Monday . . . . Last day for late registration
June 21, Monday . . . . Last day to add a course
June 21, Monday . . . . Last day to drop a course
June 25, Friday . . . . Last day to file for partial refund of fees
July 5, Monday . . . . Legal Holiday (Independence Day, July 4)
July 23, Friday . . . . First session ends

Second Session--July 26 - August 13

April 1-July 26, Thursday
  through Monday . . . . Regular registration period
July 26, Monday . . . . Instruction begins
July 27-28, Tuesday
  through Wednesday . . Late registration period ($5 late fee)
July 28, Wednesday . . Last day for late registration
July 28, Wednesday . . Last day to drop a course
July 30, Friday . . . . Last day to file for partial refund of fees
August 13, Friday . . . Second session ends

FALL SEMESTER 1976

November 1-30, 1975, Saturday
  through Sunday . . . . Initial period for accepting admission applications for Fall Semester 1976
December 1, 1975, Monday Extended filing period begins for Fall Semester 1976 admission applications
April 1, Thursday . . . . Last day to file applications for financial aid in Fall Semester 1976
April 26, Monday . . . . Beginning of regular advisement and registration period for Fall Semester 1976
May 21, Friday . . . . . . End of regular advisement & registration period for Fall Semester 1976
May 24, Monday . . . . Beginning of extended registration period for Fall Semester 1976
September 3, Friday  .  .  .  .  End of extended registration period for Fall Semester 1976
September 6, Monday  .  .  .  .  Legal Holiday (Labor Day)
September 7, Tuesday  .  .  .  .  Beginning of late advisement & registration period for Fall Semester 1976
September 8, Wednesday  .  .  .  .  First day to add or drop a course
September 10, Friday  .  .  .  .  Student Orientation Program
September 13, Monday  .  .  .  .  Late registration fee begins ($5.00)
September 13, Monday  .  .  .  .  Instruction begins
September 20, Monday  .  .  .  .  Last day to complete admission application procedures
September 24, Friday  .  .  .  .  Last day to apply for Fall 1976 graduation
September 27, Monday  .  .  .  .  Last day of late advisement & registration for Fall Semester 1976
September 27, Monday  .  .  .  .  Last day to add a course
September 27, Monday  .  .  .  .  Last day to file for partial refund of fees after withdrawing from the College
October 8, Friday  .  .  .  .  .  .  Last day to drop a course
October 8, Friday  .  .  .  .  .  .  Applications due for Spring 1977 and Summer 1977 graduation
October 15, Friday  .  .  .  .  .  .  Holiday (in lieu of Columbus Day)
November 1-30, Monday through Tuesday  .  .  .  .  Initial period for accepting admission applications for Fall Semester 1977
November 11, Thursday  .  .  .  .  Beginning of regular advisement and registration period for Winter Term 1977 and Spring Semester 1977
November 23, Tuesday  .  .  .  .  Last day to submit approved master's degree thesis for Fall Semester 1976 graduation
November 24, Wednesday  .  .  .  .  Last day to withdraw from College for Fall Semester 1976
November 25-28, Thursday through Sunday  .  .  .  .  Thanksgiving Holiday (College closed)
December 1, Wednesday  .  .  .  .  Extended filing period begins for Fall Semester 1977
December 10, Friday  .  .  .  .  .  Last day of classes for Fall Semester 1976
December 10, Friday  .  .  .  .  .  End of regular advisement & registration period for Winter Term 1977 and Spring Semester 1977
December 13, Monday  .  .  .  .  Reading Day
December 14-17, Tuesday through Friday  .  .  .  .  Final examinations, projects and evaluations
December 17, Friday  .  .  .  .  .  Fall Semester 1976 ends
December 24-26, Friday through Sunday  .  .  .  Christmas Holiday (College closed)
WINTER TERM 1977

June 1-30, 1976, Tuesday through Wednesday . . . . Initial period for accepting admission applications for Winter Term 1977

July 1, 1976, Thursday . . . . Extended filing period begins for Winter Term 1977 admissions applications

November 11, 1976, Thursday. Beginning of regular advisement and registration period for Winter Term 1977

December 10, 1976, Friday . End of regular advisement & registration period for Winter Term 1977

December 13, 1976, Monday . Beginning of late registration period for Winter Term 1977

December 29, 1976, Wednesday . . . Last day to complete admission application procedures

January 1, Saturday . . . . . Legal Holiday (New Year's Day)

January 3, Monday . . . . . Beginning of late advisement period

January 3, Monday . . . . . Late registration fee begins ($5.00)

January 5, Monday . . . . . Instruction begins

January 5, Wednesday . . . Last day of late advisement and registration for Winter Term 1977

January 5, Wednesday . . . Last day to add a course

January 5, Wednesday . . . Last day to drop a course

January 7, Friday . . . . . Last day to apply for Winter Term 1977 graduation

January 7, Friday . . . . . Applications due for Fall Semester 1977 graduation

January 11, Tuesday . . . . Last day to submit approved master's degree thesis for Winter Term 1977 graduation

January 14, Friday . . . . . Last day to file for partial refund of fees after withdrawing from College

February 1, Tuesday . . . . . Last day of classes for Winter Term 1977

February 1, Tuesday . . . . Winter Term 1977 ends

SPRING SEMESTER 1977

August 1-31, 1976, Sunday through Tuesday . . . . Initial period of accepting admission applications for Spring Semester 1977

September 1, 1976, Wednesday . . . . . . . Extended filing period begins for Spring Semester 1977 admission applications

November 11, 1976, Thursday . . . . . . . Beginning of regular advisement and registration period for Spring Semester 1977
November 12, 1976, Friday...Last day to file applications for financial aid in Spring Semester 1977

December 10, 1976, Friday..............End of regular advisement & registration period for Spring Semester 1977

December 13, 1976, Monday..............Beginning of extended registration period for Spring Semester 1977

February 8, Tuesday..............End of extended registration period for Spring Semester 1977

February 9, Wednesday..............Beginning of late advisement and registration period for Spring Semester 1977

February 14, Monday..............Late registration fee begins ($5.00)

February 14, Monday..............Instruction begins

February 14, Monday..............First day to add or drop a course

February 21, Monday..............Legal Holiday (Washington's Birthday)

February 22, Tuesday..............Last day to complete admission application procedures

February 23, Wednesday..............Last day to apply for Spring Semester 1977 and Summer 1977 graduation

February 28, Monday..............Last day to file for partial refund of fees after withdrawing from the College

March 1, Tuesday..............Last day of late advisement and registration for Spring Semester 1977

March 1, Tuesday..............Last day to add a course

March 7, Monday..............Last day to drop a course

March 7, Monday..............Applications due for Winter Term 1978 graduation

April 4-8, Monday through Friday..............Spring Vacation

April 25, Monday..............Beginning of regular advisement and registration period for Fall Semester 1977

April 28, Thursday..............Last day to submit approved master's degree thesis for Spring Semester 1977 graduation

May 6, Friday..............Last day to withdraw from College for Spring Semester 1977

May 20, Friday..............Last day of classes for Spring Semester 1977

May 23, Monday..............Reading Day*

May 24-27, Tuesday through Friday..............Final examinations, projects, and evaluations

May 20, Friday..............End of regular advisement & registration period for Fall Semester 1977

*Late afternoon and evening classes will normally convene.
May 23, Monday . . . . . Beginning of extended registration period for Fall Semester 1977

May 28, Saturday . . . . . Commencement
May 28, Saturday . . . . . Spring Semester 1977 ends
May 30, Monday . . . . . Legal Holiday (Memorial Day)

SUMMER SESSIONS 1977

First Session--June 20-July 29

April 1-June 20 . . . . . Regular registration period
June 20, Monday . . . . . Instruction begins
June 21-27 . . . . . . . . . Late registration period ($5 late fee)
July 4, Monday . . . . . Legal Holiday (Independence Day)
July 29, Friday . . . . . First session ends

Second Session--August 1-August 19

April 1-August 1 . . . . . Regular registration period
August 1, Monday . . . . . Instruction begins
August 2-3 . . . . . . . . . Late registration period ($5 late fee)
August 19, Friday . . . . . Second session ends
THE CALIFORNIA STATE UNIVERSITY AND COLLEGES

The individual California State Colleges were brought together as a system by the Donohoe Higher Education Act of 1960. In 1972 the system became The California State University and Colleges and 14 of the 19 campuses received the title University.

The oldest campus - San Jose State University - was founded in 1857 and became the first institution of public higher education in California. The newest campus - California State College, Bakersfield - began instruction in 1970.

Responsibility for The California State University and Colleges is vested in the Board of Trustees, whose members are appointed by the Governor. The Trustees appoint the Chancellor, who is the chief executive officer of the system, and the Presidents, who are the chief executive officers on the respective campuses.

The Trustees, the Chancellor and the Presidents develop system­wide policy, with actual implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of The California State University and Colleges, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the Chancellor.

Academic excellence has been achieved by The California State University and Colleges through a distinguished faculty, whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All of the campuses require for graduation a basic program of "General Education-Breadth Requirements" regardless of the type of bachelor's degree or major field selected by the student. A limited number of doctoral degrees are offered jointly with the University of California.

Presently, under the system's "New Approaches to Higher Education," the campuses are implementing a wide variety of innovative programs to meet the changing needs of students and society. Among pilot programs under way are instructional television projects, self-paced learning plans, minicourses, and credit-by-examination alternatives. The Consortium of The California State University and Colleges fosters and sponsors local, regional, and statewide external degree and certificate programs to meet the needs of individuals who find it difficult or impossible to attend classes on a campus.

Enrollments in fall 1975 totaled approximately 297,000 students, who were taught by a faculty of 16,000. Last year the system awarded over 57 percent of the bachelor's degrees and 36 percent of the master's degrees granted in California. Over 525,000 persons have been graduated from the 19 campuses since 1960.
TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY AND COLLEGES

EX OFFICIO TRUSTEES

The Honorable Edmund G. Brown, Jr. Governor of California
State Capitol
Sacramento 95814

The Honorable Mervyn Dymally Lieutenant Governor of California
State Capitol
Sacramento 95814

The Honorable Leo McCarthy Speaker of the Assembly
State Capitol
Sacramento 95814

The Honorable Wilson C. Riles State Superintendent of Public Instruction
721 Capitol Mall
Sacramento 95814

Dr. Glenn S. Dumke Chancellor of The California State University and Colleges
400 Golden Shore Drive
Long Beach 90802

APPOINTED TRUSTEES

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

Charles Luckman (1982)
9200 Sunset Blvd.
Los Angeles 90069

Roy T. Brophy (1980)
2160 Royale Road, Suite 20
Sacramento 95815

Karl L. Wente (1976)
5565 Tesla Road
Livermore 94550

Mrs. C. Stewart Ritchie (1980)
1064 Creek Drive
Menlo Park 94025

William O. Weissich (1977)
1299 4th Street
San Rafael 94901

Frank P. Adams (1981)
235 Montgomery Street
San Francisco 94104

Robert A. Hornby (1978)
810 South Flower Street
Los Angeles 90017

Richard A. Garcia (1979)
P.O. Box 2073
Glendale 91209

Wendell W. Witter (1979)
45 Montgomery Street
San Francisco 94106

Dean S. Lesher (1981)
P.O. Box 5166
Walnut Creek 94596

Mrs. Winifred H. Lancaster (1977)
P.O. Drawer JJ
Santa Barbara 93102

Dr. Claudia H. Hampton (1982)
450 N. Grand, Room G353
Los Angeles 90012

Mrs. Winifred H. Lancaster (1977)
P.O. Drawer JJ
Santa Barbara 93102
Gene M. Benedetti (1978)  
8990 Poplar Avenue  
Cotati 94928

Robert F. Beaver (1976)  
254 East 27th Street  
Los Angeles 90011

Dr. Mary Jean Pew (1983)  
2021 N. Western Avenue  
Los Angeles 90027

Willie J. Stennis (1983)  
4828 Crenshaw Blvd.  
Los Angeles 90043

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9001 Stockdale Highway  
Bakersfield, California 93309  
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(805) 833-2011

California State University, Chico  
1st & Normal Streets  
Chico, California 95929  
Stanford Cazier, President  
(916) 895-5011

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1000 E. Victoria Street  
Dominguez Hills, California 90747  
Leo F. Cain, President  
(213) 532-4300
California State University, Fresno
Shaw and Cedar Avenues
Fresno, California 93740
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Fullerton, California 92634
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California State University, Hayward
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(415) 881-3000

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Arcata, California 95521
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California State University, Long Beach
1250 Bellflower Boulevard
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(213) 498-4111

California State University, Los Angeles
5151 State University Drive
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California State University, Northridge
18111 Nordhoff Street
Northridge, California 91324
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(213) 885-1200

California State Polytechnic University, Pomona
3801 West Temple Avenue
Pomona, California 91768
Robert C. Kramer, President
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California State University, Sacramento
6000 J Street
Sacramento, California 95819
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(916) 454-6011
California State College, San Bernardino
5500 State College Parkway
San Bernardino, California 92407
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(714) 887-7591

San Diego State University
5300 Campanile Drive
San Diego, California 92182
Brage Golding, President
(714) 286-5000

Imperial Valley Campus
720 Heber Avenue
Calexico, California 92231
(714) 357-3721

San Francisco State University
1600 Holloway Avenue
San Francisco, California 94132
Paul F. Romberg, President
(415) 469-2141

San Jose State University
125 South Seventh Street
San Jose, California 95192
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(408) 277-2000

California Polytechnic State University,
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San Luis Obispo, California 93407
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(805) 546-0111

California State College, Sonoma
1801 East Cotati Avenue
Rohnert Park, California 94928
Marjorie Downing Wagner, President
(707) 664-2880

California State College, Stanislaus
800 Monte Vista Avenue
Turlock, California 95380
Walter Olson, President
(209) 633-2122
CALIFORNIA STATE COLLEGE, STANISLAUS

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Each of The California State University and Colleges by action of the Legislature is privileged to name an advisory board composed of citizens representative of the area served by the college. Appointees are approved by the California State University and Colleges Board of Trustees, and through their participation the college is better able to develop its program in relation to the needs of the college service area. The College is grateful to the following persons for their willingness to serve in this important capacity:

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Counselor ..................

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NOTICE

The Board of Trustees of The California State University and Colleges, in Section 43800 of Title 5 of the California Administrative Code, has reserved the right to add, amend, or repeal any of its regulations, rules, resolutions, standing orders, and rules of procedure, in whole or in part, at such time as it may choose. None shall be construed, operate as, or have the effect of an abridgement or limitation of any rights, powers, or privileges of the Trustees. The Chancellor reserves the right to add, amend or repeal any of his Executive Orders, at such time as he may choose, and the President of California State College, Stanislaus reserves the right to add, amend, or repeal provisions of this catalog and rules of the College, including handbooks, at such time as he may choose. No Executive Order shall be construed, operate as, or have the effect of an abridgement or limitation of any rights, powers, or privileges of the Chancellor nor shall any catalog provision or rule of the College be construed, operate as, or have the effect of an abridgement or limitation of any rights, powers, or privileges of the President.

Every effort has been made to assure the accuracy of the information in this catalog. Students are advised, however, that such information is subject to change without notice. Therefore, they should consult the appropriate instructional departments, schools, or administrative offices for current information.
AFFIRMATIVE ACTION AND NONDISCRIMINATION IN PROGRAMS AND ACTIVITIES

California State College, Stanislaus is committed to providing students access to its programs without regard to ethnicity, sex, age, or physical handicap. The College has policies and procedures which assure affirmative action in seeking and employing faculty and staff and which are in accordance with the federal laws and regulations governing equal opportunity for students and employees.* Inquiries concerning the application of the federal laws and regulations to CSCS programs may be referred to the Affirmative Action Office.

*Specifically the Civil Rights Act of 1964 (Titles VI, VII, and IX), Executive Order 11246, and Title IX of the Higher Education Amendments of 1972.

PRIVACY RIGHTS OF STUDENTS

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g), sets out requirements designed to protect the privacy of parents and students. Specifically, the statute governs (1) access to records maintained by the campus, and (2) the release of such records. In brief, the statute provides that the campus must provide students access to official records directly related to the student and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate; the right to a hearing under the Act does not include any right to challenge the appropriateness of a grade as determined by the instructor. The Act generally requires that written consent of the student be received before releasing personally identifiable data about the student from records to other than a specified list of exceptions. An office and review board has been established by the Department of Health, Education and Welfare to investigate and adjudicate violations and complaints under the Act. The office designated for this purpose may be contacted at the following address:
Mr. Thomas S. McFee, Room 5660, Department of Health, Education and Welfare, 330 Independence Avenue, S.W., Washington, D.C. 20201.

The campus is authorized under the Act to release public directory information concerning students. Directory information includes the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received and the most recent previous educational agency or institution attended by the student. The above designated information is subject to release by the campus at any time unless the campus has received a prior written objection from the student specifying information which the student requests not be released.
GENERAL INFORMATION

The College and Community

California State College, Stanislaus is a liberal arts institution founded in 1957 as the 14th member of the California State University and Colleges. Classes were first offered in 1960 in temporary quarters, and in 1965 the college was moved to its permanent 220-acre campus on the north edge of Turlock in Stanislaus County.

Enrollment at Cal State Stanislaus has grown to more than 3100 students since its opening and the college continues to attract attention in educational circles with one of the most innovative and dynamic academic programs in the state university and colleges.

Cal State Stanislaus draws students from throughout California, other western states, and a few foreign countries. Located in a rural atmosphere and a small town setting it has become increasingly popular to students from metropolitan areas who long for a lifestyle without many of the problems that are part of the daily scene in the big cities.

The college offers bachelor degrees in 25 subject areas and master's degrees in seven: Business Administration, Education, English, History, Speech, Psychology and Public Administration.

Curriculum policy in the future is expected to be a substantial continuation and expansion of the college's broad-based liberal arts package.

The City of Turlock is situated on the southern edge of Stanislaus County about 13 miles south of Modesto, the county seat. It is a growing community of more than 18,000 persons. The economy of Turlock, and of most cities in Central California, is based largely upon agricultural products and food processing plants.

Turlock is about two hours by car from San Francisco, from Yosemite National Park, the ski slopes of the Sierra Mountains and the sandy beaches of the Pacific Ocean. There also are several lakes, parks and other recreational areas much closer to the city.

Turlock has six elementary schools, a high school, two hospitals, a daily newspaper, a radio station, two theaters and several other activities of educational, cultural and recreational interest.
THE ACADEMIC PROGRAM

Being a small liberal arts college, CSCS combines academic excellence with a friendly, close-knit spirit among the students and faculty. The favorable faculty-student ratio permits small discussion groups, laboratory sessions and seminars, and a sense of informality.

Students are encouraged to develop a broad background in their first two years before majoring in one of the 24 areas available through the College. The major areas are:

- Anthropology
- Art
- Biological Sciences
- Business Administration
- Chemistry
- Child Development
- Drama
- Economics
- English
- French
- Geography
- History
- Liberal Studies
- Mathematics
- Music
- Physical Education
- Physical Sciences
- Physics
- Political Science
- Psychology
- Social Sciences
- Sociology
- Spanish
- Special Major
- Speech

Courses are also offered in German, health, ethnic studies, geology, astronomy, and philosophy to supplement the existing major programs.

Master of Arts degrees are available in Education, English, History, Psychology, and Speech; Master of Business Administration degree; Master of Science degree in Psychology; and Master of Public Administration.

ACCREDITATION

California State College, Stanislaus 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 American Association of University Women. The Department of Chemistry is nationally accredited by the American Chemical Society.

4-1-4 ACADEMIC CALENDAR

From September 1960 through Summer 1965, the College operated on the semester system, each semester being approximately 16 weeks in length.

In September 1965, the College converted to the quarter system, each quarter being about 11 weeks in length.

Beginning with the 1973 Summer Session, the College returned to the semester system.

In September 1973, the College adopted a 4-1-4 calendar which provides for a 13-week fall semester, a one-month winter term, and a 13-week spring semester. California State College, Stanislaus guarantees that students who attended the College under the quarter system academic calendar will be protected from unreasonable requirements or hardship in completion of graduation requirements under the 4-1-4 curricular program. Original catalog year
unit and subject graduation requirements may be elected by continuing students while semester unit course substitutions will be offered in order to meet graduation requirements. If students believe conversion to the 4-1-4 academic calendar poses a genuine hardship for them, they may seek special petition consideration through their major adviser and the Admissions and Records Office, as appropriate.

Semester units can be converted to quarter units by multiplying by 1-1/2 (4 semester units x 1-1/2 = 6 quarter units). Quarter units are converted to semester units by multiplying by 2/3 (9 quarter units x 2/3 = 6 semester units).

**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 degree requirements more rapidly than would otherwise be possible. The summer session also allows students the 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 program of extension courses. Extension credit may be considered by the Admissions and Records office toward a degree only if requested by a student.

During the regular academic year, non-matriculated students may, on a space-available basis, enroll in regular upper division courses through extension. Students may obtain registration packets from the Office of Continuing Education.

Summer session and extension students planning to complete the College's degree or credential programs should seek admission to the College.

For information, refer to the Office of the Director of Continuing Education.

**THE FACILITIES**

Facilities at California State College, Stanislaus are strikingly modern and blend in well with the pastoral charm of the countryside. The 220-acre campus provides ample room for growth as enrollment dictates and assures that buildings can be erected only a short walk apart while maintaining the spacious atmosphere of the surrounding area.

The Library/Administration Building and the Classroom Building were the first buildings constructed on the permanent campus and were opened in 1965. These two facilities are the hub of the campus and serve a variety of purposes as well as providing space for most faculty and administrative offices.

The Performing Arts Complex, which opened in the fall of 1970, is a multibuilding project which houses the departments of art, drama and music. The modern and very comfortable 300-seat Mainstage Theatre is the site of most drama productions and a number
of recitals and concerts plus being the platform for numerous visiting lecturers. A concert hall that can seat up to 200 persons is a feature of the music facilities in the Performing Arts Complex while the art facilities are highlighted by spacious and functional rooms that provide up-to-date equipment for practically all the art media.

The Science Building, completed and put into use in 1972, is one of the most modern science facilities of its kind in the California State University and Colleges. With much traditional and space-age equipment, including an electron microscope, the Science Building offers a multitude of laboratories and classroom paraphernalia for science and mathematics students.

The Fieldhouse, located on the east side of the campus next to the outdoor athletic fields, is the center of physical education activities. Construction is near for an extensive athletic complex including a gymnasium seating 3000 persons.

A Dining Hall opened in the fall of 1975 and has become the center of attention for students during their leisure hours. The main dining room can seat nearly 700 for lunch or for special programs. A snack bar, which is open evenings, features entertainment on a regular basis.

A College Union and Bookstore are located in temporary quarters until permanent buildings can be constructed within the next few years. The College Union is furnished with modern furniture and decor and provides a place for students to study, watch TV, eat lunch, and fraternize. It also houses the offices for the Associated Student Body officers and staff.

**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 those materials. The librarians also aid students in acquiring the principles of independent library research by formal courses and individual instruction.

The College Library occupies the second floor of the Library Building. It seats 350 readers in a variety of seating patterns.

The general collection of the College Library has been selected to meet the needs of the curriculum. It contains over 160,000 volumes of books and about 3,000 periodicals. Backfiles of most of these periodicals are available. The Library is a selective depository of the U.S. Government publications and is also a complete depository of California State publications.

The Library has a Curriculum Library and Children's Collection. About 5,000 courses of study, curriculum guides, and units of work are available. A model collection of about 2,000 of the best children's books comprises the Children's Collection.

Books and other library materials that are not locally available are obtained quickly on loan from other libraries in the region.
General Information

Since the Library has a staff of eight professional librarians, at least one librarian is available at all times to give reference service and reader advisory service. An emergency reference service is provided by telephone when the Library is closed.

AUDIO VISUAL CENTER

The College provides centralized audiovisual services which are designed to enrich classroom instruction by providing access to the latest equipment and materials available. The film library on campus lists 350 titles which are used extensively by the faculty and students. About 500 filmstrips are also available.

Extensive bookings of films and other off-campus materials are available through rentals from major film libraries throughout the United States.

Television and videotape recorders are available through the Audiovisual Center for student and faculty use in course-connected activities. The School of Behavioral and Social Sciences maintains a television dynamics laboratory with remote controlled equipment in a closed circuit system, and the Division of Education provides videotape recorders for evaluation and improvement of student teaching in the credential program.

The Audiovisual Center provides professional assistance to faculty for the design and implementation of innovative instructional development. Utilization of sophisticated technological advances in the delivery of various teaching strategies is made possible through emphasis on the latest teaching techniques in higher education.
YOSEMITE HALL DORMITORY
ADMISSION TO THE COLLEGE

The College admits qualified high school graduates, transfer students from two-year colleges and four-year institutions, and graduate students for specific course work and programs leading to baccalaureate degrees, advanced degrees, school service credentials, and several professions.

ADMISSION REQUIREMENTS

Requirements for admission to the College are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Administrative Code. 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 FIRST-TIME FRESHMAN

An applicant who has completed no college work after high school graduation will be considered for admission as a first-time freshman under one of the provisions in this section. Submission of the results of the American College Test (ACT) or the College Entrance Examination Board Scholastic Aptitude Test (SAT) is required to establish eligibility.

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 sciences, 2 years
6. Study in speech, music, art, and other subjects contributing to general academic background.

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

ANTHROPOLOGY: Social sciences, 4 years preferred.

ART: Drawing, painting, printmaking, and sculpture, as much high school and independent work in these fields as possible.

BIOLOGICAL SCIENCES: Mathematics, through trigonometry; foreign languages, 2 years (French or German preferred); biology, preferably 2 years; chemistry, 1 year; physics, 1 year.
Admission to the College

BUSINESS ADMINISTRATION: Mathematics, 4 years; English, 4 years.

CHEMISTRY: Mathematics, 4 years (through trigonometry); chemistry, 1 year; physics, 1 year.

CHILD DEVELOPMENT: Biology; English, 4 years; mathematics, 4 years preferred (through trigonometry); social sciences, 4 years preferred.

DRAMA: English, 4 years; as much high school and independent drama experience as possible.

ECONOMICS: Social Sciences, 4 years preferred; mathematics, 4 years preferred.

ENGLISH: English, 4 years; foreign language, 4 years.

FRENCH: Foreign language, 2 to 4 years French preferred.

GEOGRAPHY: History and/or social sciences, 4 years preferred.

HISTORY: History and/or social sciences, 4 years preferred; foreign language, 4 years preferred.

LIBERAL STUDIES: A broad selection of elective courses.

MATHEMATICS: Physics, 1 year; mathematics, 4 years (through trigonometry).

MUSIC: As much private music study as possible, as much participation in both vocal and instrumental music as possible, at least 1 year of music theory if offered, and 2 years French or German for voice majors.

PHYSICAL EDUCATION: Biology; English, 4 years; social sciences, 4 years; as much participation in high school athletic and/or intramural programs as possible.

PHYSICAL SCIENCES: Physics, 1 year; chemistry, 1 year; mathematics, 4 years (through trigonometry).

PHYSICS: Physics, 1 year; chemistry, 1 year; mathematics, 4 years (through trigonometry).

POLITICAL SCIENCE: History and/or social sciences, 4 years preferred; English, 4 years.

PSYCHOLOGY: Biology; mathematics, 4 years (through trigonometry); English, 4 years.

SOCIAL SCIENCES: Social sciences, 4 years preferred.
SOCIETY: History and/or social sciences, 4 years preferred.

SPANISH: Foreign language, 2 to 4 years Spanish preferred.

SPEECH: Courses in speech and activity in forensics; English, 4 years; social sciences, 4 years preferred.

CALIFORNIA HIGH SCHOOL GRADUATES AND LEGAL RESIDENTS. An applicant who is a graduate of a California high school or a legal resident of California for tuition purposes must have a grade point average and composite ACT or total SAT score which provides an eligibility index placing him among the upper one-third of California high school graduates. The minimum eligibility index is 741 for the ACT or 3072 for the SAT. It is computed by multiplying grade point average by 200 and adding it to ten times the composite ACT score or by multiplying grade point average by 800 and adding it to the total SAT score. The grade point average is based upon all high school work taken, excluding work completed in the freshman year as well as any courses in physical education or military science. For admission eligibility purposes, the College accepts the best ACT or SAT score for tests taken prior to high school graduation. The table on the next page provides the test scores needed with a given grade point average to be eligible for admission.

California residents who are military service personnel or veterans may be considered under special admission requirements.

NONRESIDENTS GRADUATING FROM HIGH SCHOOLS IN OTHER STATES OR POSSESSIONS. Applicants who are nonresidents for tuition purposes and who are graduates of a high school in another state or a U.S. possession must have an eligibility index which would place them among the upper one-sixth of California high school graduates. The minimum required eligibility index is 826 for the ACT, or 3402 for the SAT, and is calculated as in the previous section.

GRADUATES OF SECONDARY SCHOOLS IN A FOREIGN COUNTRY. Applicants who are graduates of a foreign secondary 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 ACT or SAT except when requested to do so; special requirements may apply. Unless specifically exempted, the College Entrance Examination Board Test of English as a Foreign Language (CEEB TOEFL) is required.

NONHIGH SCHOOL GRADUATES. An applicant who is over 18 years of age, but who has not graduated from high school will be considered for admission only when preparation in all other ways is such that the College believes promise for academic success is equivalent to that of eligible California high school graduates.
### ADMISSION ELIGIBILITY FOR CALIFORNIA HIGH SCHOOL GRADUATES

<table>
<thead>
<tr>
<th>GPA</th>
<th>ACT Score</th>
<th>SAT Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.21</td>
<td>Eligible with any score</td>
<td>2.80</td>
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HIGH SCHOOL STUDENTS ENTERING ADVANCED PLACEMENT PROGRAM. Students still enrolled in high school will be considered for enrollment in the College's Advanced Placement Program if they are recommended by their principal and preparation is equivalent to that required of eligible California high school graduates. Such admission is only for specific course work and does not constitute the right to continued enrollment. Submission of a special application form each term is a prerequisite for continued enrollment. Such applicants are not required to take the ACT or SAT. Regular application procedures are not applicable.

The College Advanced Placement Program is intended to supplement the curriculum available to qualified high school students by opening college courses to them, to provide these students with the opportunity for a gradual transition to college, and to extend qualified students to the utmost limits of their intellectual capacities at as young an age as is practicable. A high school student admitted to this program may enroll in any lower division course providing all course prerequisites are satisfied. Regular college credit will be awarded providing credit is not required for high school graduation. Inquiries should be addressed to the Director of Admissions.

ADMISSION AS AN UNDERGRADUATE TRANSFER

An applicant for admission to the College as an undergraduate transfer who is in good standing at the last college attended will be considered for admission under one of the following provisions. California residents who are military service personnel or veterans may be considered under special admission requirements. Transferable courses are defined as those officially certified as baccalaureate-level by the regionally accredited college at which the courses were taken. California Community College transfers should consult their college counselor for information on transferability of courses.

APPLICANTS WITH FEWER THAN 56 TRANSFERABLE SEMESTER UNITS. Applicants who have completed fewer than 56 transferable semester units are eligible for admission if they meet the current first-time freshman requirements and have earned a grade point average of at least 2.0 (C) for all transferable college units attempted. Either ACT or SAT results are required of a transfer applicant with fewer than 56 transferable semester units.

APPLICANTS WITH 56 OR MORE TRANSFERABLE SEMESTER UNITS. Applicants who have completed 56 or more transferable semester units are eligible for admission if they have earned a grade point average of at least 2.0 (C) for all transferable college units attempted. A nonresident applicant must have a grade point average of at least 2.4 (C+).

ADMISSION AS AN INTERNATIONAL STUDENT. The admission of an international (foreign) student with college credit is governed by separate requirements. Prospective applicants from abroad should
Admission to the College

consult the College Admissions and Records Office for additional instructions. Unless specifically exempted, the College Entrance Examination Board Test of English as a Foreign Language (CEEB TOEFL) is required.

OTHER UNDERGRADUATE APPLICANTS: Applicants not admissible under one of the above provisions should enroll in a two-year college or other appropriate institution, or consult the College Admissions Office for advice regarding their situation. 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 A POST-BACCALAUREATE OR GRADUATE STUDENT

POSTBACCALAUREATE STANDING: UNCLASSIFIED. For admission to unclassified postbaccalaureate standing, a student must: (a) hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association or have completed equivalent academic preparation as determined by an appropriate campus authority; (b) have attained a grade point of at least 2.5 ('C+') in the last 60 semester units attempted; and, (c) have been in good standing at the last college attended. Admission to the College with postbaccalaureate unclassified standing does not constitute admission to graduate degree curricula.

POSTBACCALAUREATE STANDING: CLASSIFIED. A student who is eligible for admission to the College in Unclassified standing may be admitted to Classified postbaccalaureate standing for the purpose of enrolling in a particular postbaccalaureate credential or certificate program; provided, that such additional professional, personal, scholastic, and other standards, including qualifying examinations, as may be prescribed for the particular program by the appropriate campus authority are satisfied.

GRADUATE STANDING: CONDITIONALLY CLASSIFIED. A student who is eligible for admission to the College under Unclassified postbaccalaureate standard above, but who has deficiencies in prerequisite preparation which in the opinion of the appropriate campus authority can be met by specified additional preparation, including qualifying examinations, may be admitted to an authorized graduate degree curriculum with Conditionally Classified Graduate Standing.

GRADUATE STANDING: CLASSIFIED. Students who are eligible for admission to the College in Unclassified or Conditionally Classified Standing may be admitted to an authorized graduate degree curriculum of the campus as a classified graduate student if they satisfactorily meet the professional, personal, scholastic, or other standards for admission to the graduate degree curriculum, including qualifying examinations, as the appropriate campus authority may prescribe. Only those applicants who show promise of success and fitness will be admitted to graduate degree curricula, and only those who continue to demonstrate a satisfactory
level of scholastic competence and fitness shall be eligible to proceed in such curricula.

**STUDENTS FORMERLY ENROLLED**

Students formerly enrolled at the College who after an absence of one or more semesters desire to return may be readmitted by formally applying for readmission. Formerly enrolled students are subject to the regular application procedure and filing dates.

**CSUC VISITORS PROGRAM**

Any student entitled to continued enrollment at one of the other 18 campuses of The California State University and Colleges system may enroll for any term at the College as a visiting student by following a simplified application procedure. Concurrent enrollment at two CSUC campuses may similarly be approved. Students at the College also may apply for visitor status at another CSUC campus. CSUC Visitor Status and Concurrent Enrollment application forms are available on request from the College Admissions and Records Office.

**CALIFORNIA RESIDENCY CLASSIFICATION**

New and returning students of The California State University and Colleges are classified for the purpose of determining the residence of each student for nonresident tuition purposes. The Residence Questionnaire and, if necessary, other evidence furnished by the student is used in making these determinations. Students may not register and enroll in classes until their Residence Questionnaire has been received by the Admissions Office.

The following statement of the rules regarding residency determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The law governing residence determination for tuition purposes by the California State University and Colleges are found in Education Code Sections 22800-22865, 23753.1, 23754-23755, 23758.2 and 23762, and in Title 5 of the California Administrative Code, Article 4 (commencing with Section 41900) of Subchapter 5 of Chapter 1, Part V. A copy of the statutes and regulations is available for inspection at the campus Admissions Office.

Legal residence may be established by adults who are physically present in the state while, at the same time, intending to make California their permanent home. Steps must be taken at least one year prior to residence determination date to evidence the intent to make California the permanent home with concurrent relinquishment of the prior legal residence. Some of the relevant indicia of an intention to establish and maintain California residence may be established by registering to vote and voting in elections in California; satisfying resident California state income tax obligations on total income; ownership of residential property or continuous occupancy or letting of an apartment on a lease basis where one's permanent belongings are kept; maintaining active resident
memberships in California professional or social organizations; maintaining California vehicle plates and operator's license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service, etc.

The student who is within the state for educational purposes only does not gain the status of resident regardless of the length of stay in California.

In general, unmarried minors (under 18 years of age) derive legal residence from their father (or from the mother if the father is deceased), or, in the case of permanent separation of the parents, from the parent with whom the minor maintains place of abode. The residence of a minor cannot be changed by act of the minor or that of the minor's guardian, so long as the minor's parents are living.

A man or a woman may establish his or her residence; marriage is not a governing factor.

The general rule is that a student must have been a California resident for at least one year immediately preceding the residence determination date in order to qualify as a "resident student" for tuition purposes. The designated residence determination dates for the 1976-77 academic year are September 20 for the fall semester, January 5 for the winter term, and January 25 for the spring semester.

There are several exceptions for nonresident tuition. Some of the exceptions provide for:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student was still a minor. When the minor reaches age 18, the exception continues for one year to enable the student to qualify as a resident student.

2. Persons below the age of 19 who have been present in California for more than a year before the residence determination date, and entirely self-supporting for that period of time.

3. Persons below the age of 19 who have lived with and been under the continuous direct care and control of an adult, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year.

4. Dependent children and spouses of persons in active military service stationed in California on the residence determination date. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year. The exception is not affected by transfer of the military person directly to a post outside the 50 states and District of Columbia.

5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.
6. A student who is an adult alien is entitled to residence classification if the student has been lawfully admitted to the United States for permanent residence in accordance with all applicable provisions of the laws of the United States; provided, however, that the student has had residence in California for more than one year after such admission prior to the residence determination date. A student who is a minor alien shall be entitled to residence classification if both the student and the parent from whom residence is derived have been lawfully admitted to the United States for permanent residence in accordance with all applicable laws of the United States, provided that the parent has had residence in California for more than one year after acquiring such permanent residence prior to the residence determination date of the term for which the student proposes to attend the College.

7. Certain credentialed, full-time employees of school districts.

8. Full-time State University and Colleges employees and their children and spouses. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.


10. Children of deceased public law enforcement or fire suppression employees, who were California residents, and who were killed in the course of law enforcement or fire suppression duties.

11. A person in continuous full-time attendance at an institution who had resident classification on May 1, 1973, shall not lose such classification as a result of adoption of the uniform student residency law on which this statement is based, until the attainment of the degree for which currently enrolled.

Any student, following a final decision on campus on his residence classification, may make written appeal to:

The California State University & Colleges
Office of General Counsel
400 Golden Shore Drive
Long Beach, California 90802

within 120 calendar days of notification of the final decision on campus of his classification. The Office of General Counsel may make a decision on the issue, or it may send the matter back to the institution with instructions for a further review on campus. Students classified incorrectly as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Administrative Code. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying
Admission to the College

changes, must immediately notify the Admissions Office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of rules regarding residency determination is by no means a complete explanation of their meaning. The student should also note that changes may have been made in the rate of nonresident tuition, in the statutes, and in the regulations between the time this catalog is published and the relevant residence determination date.

HONORS AT ENTRANCE

Honors at Entrance is awarded an admitted undergraduate student whose past record indicates promise of superior academic achievement at the College.

ADMISSION APPLICATION PROCEDURES

UNDERGRADUATE APPLICATION PROCEDURES

All prospective undergraduates must file a complete application for admission and a $20 nonrefundable application fee. Each undergraduate applicant may file only one application for any one term with The California State University and Colleges system. Applications may be obtained from any campus of the system or high school and community college counselors, and should be filed with the campus of first choice. Alternate choice campuses and majors may be indicated on the application. Applicants seeking financial aid should also complete and submit with the application a Financial Aid Application.

POSTBACCALAUREATE APPLICATION PROCEDURES

All applicants for any type of postbaccalaureate status (e.g., Master's degree applicants, those seeking credentials, and those interested in taking courses for professional growth, etc.) must file a complete application within the appropriate filing period. A complete application for postbaccalaureate status includes all materials required for undergraduate applicants plus the supplementary admissions application and all required departmental program admission materials. Postbaccalaureate applicants who were enrolled as undergraduate students at the College in the term immediately preceding the term for which they now wish to apply are also required to complete and submit admission application forms and remit the $20 nonrefundable application fee. Applicants seeking financial aid must complete and submit the Financial Aid Application with their admission application.

Since applicants for postbaccalaureate programs will be limited to the choice of a single campus on each application, redirection to alternative campuses or later changes of campus choice will be minimal. In the event that a postbaccalaureate applicant wishes to be assured of initial consideration by more than one campus, it will be necessary to submit a separate application and fee to each.
Application materials may be obtained from the Admissions Office or the Graduate Studies Office of any campus within the system. Direct applicant contact with the graduate program department is advisable.

WHO NEED APPLY

An Application for Admission or Readmission form must be filed by any person who plans to enroll at the College for a fall, winter, or spring term and who either was not enrolled for residence credit or audit courses, or who withdrew from the College, during the semester preceding the term for which he intends to enroll. A student enrolled at the College who qualifies for a baccalaureate degree, master's degree, or credential must apply for readmission with graduate standing and declare his new educational objective so that he may be considered for continued enrollment. Enrollment in summer session or extension courses does not exempt a person from the above admission application procedures.

STUDENTS SEEKING PART-TIME ENROLLMENT. Students seeking to enroll in a fall, winter, or spring term for a part-time or evening program of courses also 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 admitted to the College, these students must pay the same registration fees as other students. (See Auditors.)

STUDENTS SEEKING SUMMER SESSION OR EXTENSION ENROLLMENT. Students seeking to enroll only for summer session or extension courses 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. For Summer Session and Extension, special enrollment procedures will apply. 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 admission requirements.
Applications for admission are accepted according to the following schedule:

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<td>Spring Quarter/Semester</td>
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**SEMESTER CALENDAR CAMPUSES**

- Chico
- Fresno
- Fullerton
- Long Beach
- Northridge
- Sacramento
- San Diego
- San Francisco
- San Jose
- Sonoma
- Stanislaus*

**QUARTER CALENDAR CAMPUSES**

- Bakersfield
- Dominguez Hills
- Hayward
- Humboldt
- Los Angeles
- Cal Poly, Pomona
- San Bernardino
- Cal Poly, S.L.O.

Each campus accepts applications until capacities are reached. Most campuses accept applications up to a month prior to the opening day of the term. Campuses will close individual programs as they reach capacity.

All applications postmarked or received during the first month of the filing period will receive consideration within the campuses’ established enrollment categories and quotas. There is no advantage in filing before the filing period.

**CATEGORY QUOTAS AND SYSTEMWIDE IMPACTED PROGRAMS**

Application category quotas have been established by some campuses, in some majors, where the number of applicants is expected to exceed campus resources. All applications received in the first month of a filing period will receive equal consideration for such categories. Certain undergraduate programs (e.g., architecture, natural resources, basic nursing, physical therapy) are impacted throughout the 19 campus system, and applicants to such programs are expected to meet supplementary admission criteria for admission to these programs. Applicants to these major programs will be sent further information by the campuses about the supplementary criteria to be used, and how and when applicants can meet them. Applicants to impacted programs must apply during the first month of the filing period.

*The Stanislaus campus is on a modified semester system known as the 4-1-4 calendar with an early fall semester concluding before the Christmas break, a winter term of one month in January, and a spring semester ending in early June.
SPACE RESERVATIONS Applicants who can be accommodated within enrollment quotas will receive confirmation of space reservation. Although the space reservation is not a statement of admission to a campus, it is a commitment on the part of the campus to admit a student once eligibility has been determined. When students receive notice of the space reservation, they should initiate action to have transcripts of any college and high school work sent to the campus where space has been reserved. The campus will inform them of the number of copies of transcripts required, dates for submittal, and where they should be sent. The student should not request that transcripts be sent until requested to do so by the campus where space has been reserved.

Each campus has established procedures to consider qualified applicants who would be faced with an extreme hardship if not admitted. Prospective hardship petitioners should contact the concerned campus regarding specific policies governing hardship admission.

APPLICATION FEE A fee of twenty dollars ($20) is charged for processing of applications for admission to the College. This fee is non-refundable, non-transferable to a different term, and applies to (1) all persons not regularly enrolled at the College during any of the three terms immediately preceding, (2) former students who subsequently registered in another college for residence, summer, extension, or correspondence courses, and (3) all applicants for first-time postbaccalaureate student status.

Students seeking summer session or extension registration only are exempt from this requirement.

TRANSCRIPTS REQUIRED An undergraduate applicant must request two sets of 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.

If applicable, General Educational Development (GED) examination results and California High School Proficiency Examination Certificates must be submitted in addition to available high school records.

All transcripts and supporting admission documents are due in the Admissions and Records Office three weeks after the date requested or the following dates, whichever is later: March 1 for the fall semester, October 1 for the winter term, and December 1 for the spring semester.

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.
Admission to the College

APPLICANTS WITH COURSES IN PROGRESS. An applicant who is in attendance at a school or college on the date transcripts are requested must file a transcript which includes verification of the subjects in which currently enrolled. After applicants have completed these subjects, they must notify the school or college to forward a supplementary transcript showing the final grades for that term.

VETERANS. Veterans who desire to have their military records evaluated for possible credit toward a baccalaureate degree must file a copy of their separation papers (DD 214) or form DD 295 with their application.

POSTBACCALAUREATE AND GRADUATE STUDENTS. Applicants who hold a baccalaureate degree from an accredited institution and who are not seeking a degree or credential from the College need only to verify their baccalaureate degree to the Admissions and Records Office by filing when requested to do so, two official transcripts from the institution at which the degree was earned. A graduate who is seeking admission to a degree, credential or certificate program must request that two copies of complete official college transcripts be sent directly to the Admissions and Records Office from each college (other than Stanislaus) and university at which registered.

FORMER STUDENTS. Former students of the college who are returning after graduation or any absence are required to submit two copies of official and complete transcripts covering attendance at any other college since the date of last enrollment at the College. A former postbaccalaureate student who is not planning to complete the College's degree, credential or certificate requirements need not submit additional transcripts.

SUMMER SESSION AND EXTENSION REGISTRANTS. Students seeking to enroll for summer session or extension are not required to file official transcripts unless they plan to complete the College's requirements for a degree, credential or certificate.

ADMISSION EXAMINATION Students who will be entering the college with fewer than 56 transferable semester units completed at regionally accredited colleges are required to take the American College Test (ACT) or the College Entrance Examination Board of Scholastic Aptitude Test (SAT). All other undergraduate applicants, particularly transfers who have mediocre college grade point averages, are urged to take one of these tests if they do not file the results of another recent college entrance aptitude 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. Applicants are expected to request the testing service to forward score reports directly to the College. Applicants for admission should take the ACT or SAT not later than February for fall admission, October for winter admission, and December for spring admission.
Registration forms for either test may be obtained from high school and college counselors, or directly from the office of the testing service. American College Test registration arrangements are made by writing ACT Registration Unit, P.O. Box 168, Iowa City, Iowa 52240. The ACT will be given during 1976-77 on the following dates:

- Saturday, June 12, 1976
- Saturday, October 9, 1976
- Saturday, November 20, 1976
- Saturday, June 18, 1977
- Saturday, February 5, 1977
- Saturday, April 2, 1977
- Saturday, November 20, 1976
- Saturday, June 18, 1977

The Scholastic Aptitude Test (SAT) may be taken at the College or other testing centers throughout the world on the dates listed below:

- Saturday, June 5, 1976
- Saturday, October 16, 1976
- Saturday, November 6, 1976
- Saturday, December 4, 1976
- Saturday, January 22, 1977
- Saturday, March 26, 1977
- Saturday, May 7, 1977
- Saturday, June 4, 1977

Applications and fees should be sent directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, in time to be received not later than four weeks and preferably six weeks prior to the test date selected.

Special institutional administrations of the SAT on additional dates to be announced will be arranged exclusively for applicants to the College. Interested applicants should contact the College Testing Office regarding special institutional administrations of the SAT.

HEALTH HISTORY STATEMENT AND EXAMINATION

All admitted students must submit a health history statement. Appropriate forms will be provided all admitted students for submission prior to registration.

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 Transfer 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 Degree Objectives.)

While students may follow the specific catalog year degree requirements on which their Evaluation of Transfer Credit is based, they will be held responsible for complying with all changes in other regulations, policies, and procedures which may appear in subsequent catalogs.
ADVANCED PLACEMENT AND CREDIT BY EXAMINATION

The College participates in the Advanced Placement Program of the College Entrance Examination Board. Advanced placement in sequential courses and six semester units of course credit may be awarded to entering students for scores of 3, 4 and 5 on the CEEB Advanced Placement examination. Advanced placement and unit credit also may be awarded for satisfactory scores on the CSUC English Equivalency Examination (EEE) and College Level Examination Program (CLEP) general and subject examinations.

Course credit earned through the College's on-campus Advanced Placement Program for High School Students or from early entrance programs at other colleges will be recognized by the College the same as is regular credit, provided this credit is not applied toward high school graduation. (See Admission as a First-time Freshman.)

TRANSFER OF CREDIT FROM A COMMUNITY COLLEGE

Transferable courses are defined as those officially certified as baccalaureate-level by the regionally accredited college at which the courses were taken. No upper division credit may be allowed from a two-year college, nor may credit be allowed for professional courses in education.

Credit from two-year colleges is allowed up to a maximum of 70 semester units. Additional lower division courses may be completed at a four-year college for full credit, even after 70 units have been earned. Completion of General Education requirements is not required for admission with upper division status.

It is greatly advantageous and frequently imperative to begin some upper division course work, especially that which is applicable to major requirements, soon after 56 semester units are earned. Postponement of transfer usually results in the expense of postponed graduation because a minimum of two years of study is normally required from whichever date upper division course work is started. Simultaneous enrollment at the College for upper division course work and at a two-year college may be approved for any student by the assigned major adviser.

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" may be accepted for credit toward advanced standing and fulfillment of graduation requirements only if appropriate in purpose, scope, and depth for a baccalaureate degree. Credit allowed from these institutions will be designated as provisional. Regular credit may be granted upon adviser recommendation, department endorsement, and completion of 24 semester units at the College with a 2.0 (C) grade point average or better.
Students with a degree from such an institution may have their educational experience recognized by the College as equivalent to the completion of a baccalaureate degree from a regionally accredited institution upon adviser recommendation, department endorsement, and completion of 12 units at the College with a grade point average of 3.0 (B) or better or completion of 24 units with at least a 2.5 (C+) grade point average.

**COURSE WORK COMPLETED TEN YEARS BEFORE ENROLLMENT**

Course work completed ten years before enrollment at the College is designated provisional credit, primarily to alert the student and assigned adviser that course scheduling adjustments may be warranted. Regular credit for this course work will be allowed based on adviser recommendation after satisfactory completion of 24 units at the College.

**CREDIT FOR EXTENSION AND CORRESPONDENCE COURSES**

The maximum credit for correspondence and extension courses which may be allowed toward the bachelor's degree is 24 semester units.

**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.

Workshops at the College numbered 4920 to 4929 are open to both undergraduate and postbaccalaureate students. Those numbered 5920 to 5929 and 6920 to 6929 are planned for postbaccalaureate students only. However, when an exception to this enrollment prerequisite is allowed by the instructor for a 6920 to 6929 workshop, elective credit toward a bachelor's degree will be allowed.

**CREDIT FOR MILITARY SERVICE**

Undergraduate students who have one year of active duty of military service will receive six semester units of credit toward admission and a baccalaureate degree. Courses taken at military service schools if appropriate in purpose, scope, and depth for a baccalaureate degree may also yield credit. Military experience will be evaluated only upon request. Separation papers (DD 214) or form DD 295 verifying such experience must be filed with the Admissions and Records Office before credit will be allowed.

**ACADEMIC ADVISEMENT**

Upon admission students are referred to an adviser in their declared major field of study or to a general adviser if they are undeclared or are without a Cal State Stanislaus degree objective. Undeclared majors must declare a degree major or another specific educational objective prior to their junior year. Any selection or change of major or minor after admission must be accompanied by an official declaration form. (See Declaration or Change of Degree Objectives.) If students are uncertain as to a choice of major and/or its related vocational goal, they may request from their adviser a referral to the Testing Office.
Admission to the College

Although the adviser assists the students in planning their entire educational program, students are considered to be responsible for meeting all course prerequisites and all requirements for their degree or credential. Specific days for academic advising are designated each semester in the Academic Calendar to provide a time for students to consult with their adviser in determining a program of courses for the approaching term. At this conference the student completes a Registration Request form which is a part of the registration process.

Students are prepared for their first advising conference only after they have reviewed appropriate sections of the College catalog, examined course offerings in the Class Schedule, and prepared a Trial Study List including alternatives (found in the Class Schedule). If an Evaluation of Credit form has not yet been issued, any catalog(s) of former college(s) attended and any transcripts not on file at CSCS must also be brought to the conference.

A student intending to enter any of the professions listed below may obtain information about CSCS preprofessional programs from the following sources.

PREPARATION FOR PREPROFESSIONAL STUDIES

The plan of undergraduate study at California State College, Stanislaus emphasizes a liberal education in preparing for professional or vocational specialization. Students preparing for a professional specialization have opportunities to do so by selecting, in consultation with an appropriate preprofessional adviser, the kind of curriculum that most soundly meets the requirements set by the profession they wish to enter.

PREPROFESSIONAL PROGRAM: MEDICINE, VETERINARY MEDICINE, OPTOMETRY, DENTISTRY, PHARMACY. The majority of students entering medical and dental schools in the United States do so after having acquired a B.A. or B.S. degree at an undergraduate college. Possession of an undergraduate degree is especially worthwhile, since professional schools do not offer liberal arts subjects.

Any undergraduate major is appropriate for a preprofessional student as long as certain basic subject areas are included in the program. For specific requirements of professional schools, the student is urged to consult such special sources as "Medical School Admission Requirements" (a publication of the Association of American Medical Colleges), and the College's Health Sciences Advisory Committee.

Students interested in the health sciences should register with the Health Sciences Advisory Committee through the Dean of Natural Sciences as soon as admission to the College is granted. A committee member will then prepare a suggested basic program to supplement advisement by the major adviser. The committee will also compile data on each student and prepare a letter of evaluation to be sent at the student's request in support of an application to professional schools. Registration with the committee does not commit the student to any particular program or career. (See catalog section titled Health Sciences.)
PREPROFESSIONAL PROGRAM: LAW. Applicants for admission to most law schools are expected to have a B.A. or B.S. degree and to have taken the Law School Admission Test. There is no single "prelaw" major required, or in most instances recommended, since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study.

Several broad objectives of prelegal education are set forth by the Association of American Law Schools. These include the oral and written command of language; an understanding and appreciation of social, political, and economic values, institutions, problems, and frames of reference; and an ability for creative, innovative, critical, and analytical thinking.

Since no one major is mandatory, the student should select one which emphasizes the areas mentioned above (economics, English, history, philosophy, political science, and sociology to name a few). For additional information, the student should consult with the prelaw adviser.

For additional information, a student should see the bulletins or catalogs of various law schools or the official "Prelaw Handbook," current edition, prepared by the Law School Admission Test Council and the Association of American Law Schools. This handbook may be obtained at most college bookstores or ordered from Educational Testing Services, Princeton, N.J. 08540.

REGISTRATION

Registration is the final step in the matriculation process. When a student has been admitted to the College and has determined which subjects to take, the student should make an appointment to see the adviser during the Academic Advising Period to prepare for registration and obtain the necessary registration forms and instructions. A Class Schedule listing courses offered is available before the Academic Advising Period for each term.

Under the present Computer Assisted Registration system, students may register in person or by mail. It is to the advantage of the student to register as early as possible in the registration period as noted in the Academic Calendar. Late registrants may 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, the student may receive grades of F or NC. If the student attends a course without officially adding it, student will receive no credit for the course.

Students who do not attend the regularly scheduled class meetings during the first week of class after registration may be refused entrance to the class by the instructor. Students are responsible for dropping such classes.
The credential programs of the College are coordinated by the Office of the Credentials Coordinator. Information concerning application procedures for Multiple and Single Subject teaching credentials is available in that office. Deadlines for completing application packets for possible admission are March 15 and October 15. Information on other credentials may be obtained from the appropriate office.

The Commission for Teacher Preparation and Licensing (CTPL) has approved the College programs leading to the credentials listed below:

1. Multiple Subject: Education
2. Single Subject: Education
3. Administrative Services: Education
4. Reading Specialist: Education
5. Special Education:
   Communication Handicapped Speech Communication
6. Special Education:
   Learning Handicapped Psychology

In addition, the credential programs listed below are being prepared for approval by the CTPL for inclusion in the 1976-77 academic year:

1. Pupil Personnel:
   School Counseling Education
2. Pupil Personnel:
   School Psychology Psychology
3. Clinical Rehabilitative Services: Speech

A candidate for the basic teaching credentials should first plan and activate a program of studies leading to a degree. Application for a credential program should be made after completion of most of the upper division requirements for the major.

A student seeking a Multiple Subject credential should preferably enroll in the Liberal Studies degree program with an appropriate concentration. All lower division course work should be selected from the requirements set forth in the four general areas (A-D) of the Liberal Studies program, and those included as part of the concentration. A student beginning his studies at a community college should seek special counseling so as to include course work comparable to the Liberal Studies lower division requirements. When the B.A. degree with a major in Liberal Studies is completed, the State Approved Multiple Subjects test is not required to obtain the credential. If any other B.A. degree is
completed, the test must be passed prior to student teaching. If a candidate wishes to obtain a preliminary credential at the time of graduation, he should apply by March 15 of his junior year.

A student seeking a Single Subject credential must complete a B.A. degree with a Commission approved waiver program at California State College, Stanislaus in the area the student plans to teach, or complete any B.A. degree or higher degree, except in professional education, and either an approved waiver program or a passing score on a State Approved Single Subject test. Since most of the credential work is completed at on-site locations, it is preferable that a candidate apply only when the student can be available full-time for the credential year.
ACADEMIC STANDARDS

HONOR LIST OF STUDENTS

Each semester the College publishes a list of undergraduate honor students. To qualify for the list, a student during the semester under consideration must (1) register for and earn a minimum of 10 units of graded course work at the College, and (2) achieve a 3.5 (B+) grade point average for all course work attempted at the College.

GRADING SYSTEM

ACADEMIC GRADES

A - Excellent . . . Student has demonstrated a high level of competence in meeting course objectives. Four (4) grade points per unit of credit are awarded; affects progress points in same manner.

B - Good . . . Student has demonstrated a more than satisfactory level of competence in meeting course objectives. Three (3) grade points per unit of credit are awarded; affects progress points in same manner.

C - Satisfactory . . . Student has demonstrated a satisfactory level of competence in meeting course objectives. Two (2) grade points per unit of credit are awarded; affects progress points in same manner.

D - Unsatisfactory . . . Student has demonstrated only a barely passing level of competence in meeting course objectives so that it is not necessary to repeat the course for credit. One (1) grade point per unit of credit is awarded; affects progress points in same manner.

F - Failure . . . Student has not demonstrated a minimally passing competence in meeting course objectives. Credit is not merited. Affects both progress points and grade point calculations; zero progress points and grade points assigned.

CR - Credit . . . Student has demonstrated at least a satisfactory "C" level of competence in meeting course objectives (at least "B" level in graduate courses). Not used in grade point average calculations. Two (2) progress points per unit of credit are awarded (three [3] per unit of credit in graduate courses); grade points are not affected.
NC - No Credit . . . Student has not demonstrated minimally satisfactory competence in meeting course objectives. Credit is not awarded. Not used in grade point average calculations but affects progress points calculations; zero progress points assigned.

ADMINISTRATIVE SYMBOLS

I - Incomplete Course . . . Students have not completed course requirements due to reasons beyond their control. Must be made up within the time limit set by the instructor and, in any case, no more than one year following the end of the term in which the grade was assigned. Failure to complete the assigned work will result in an incomplete reverting to a grade of "NC" for grading options 1, 2, 3, and 6; and to a grade of "P" for grading options 4 and 5. (See Grading Options below.) An extension of time may be granted via approved petition. Not used in grade point average or progress points calculation.

RD - Report Delayed . . . No grade reported by the instructor. The "RD" symbol may be used in those cases where a delay in reporting of a grade is due to circumstances beyond the control of the student. Symbol will be replaced by an appropriate academic grade as soon as possible. Not used in grade point average or progress points calculation.

W - Withdrawn from Course . . . A student may withdraw from any course through the 20th day of instruction, as indicated in the Academic Calendar, without having any administrative symbol recorded. A student may withdraw from the College by filing an approval Withdrawal Card 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 term. An Application for Readmission must be filed in order to register for a future term. Students who take unauthorized leave may receive a final grade of "P" or "NC" in each course for which they were registered. Students who officially withdraw by the last day to file for a partial refund of fees will have their refund automatically mailed to the address indicated on the Withdrawal Card. (See Refund Regulations.) Withdrawals after the 20th day of instruction and prior to the last three weeks of instruction are permissible only for serious and compelling reasons, i.e., reasons clearly beyond the student's control. Permission to withdraw during this period requires the following statements and approval on the "Request to Drop Course with W Grade" form:
a. A statement of the serious and compelling reasons with supporting evidence.
b. Report of the course instructor on the student's academic performance to date and recommendations (if any).
c. Notification of the student's adviser, allowing the opportunity to provide pertinent information concerning the student's withdrawal (if any).
d. Approval of the School Dean (Division Chairman).

Upon approval, a "W" will be assigned. The "W" carries no connotation of quality of student performance and is not used in grade point average or progress points calculation. Withdrawals shall not be permitted during the final three weeks of instruction except in cases such as accident or serious illness where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an incomplete is not practicable. Written approval is required by the School Dean (Division Chairman).

SP - Satisfactory Progress . . . Indicates a term of satisfactory progress in a course or activity which may require more than one term to complete (e.g., master's thesis). Not used in grade point average or progress points calculation.

AU - Audit . . . Enrollment in a class for purposes of instruction only. No credit. Not used in grade point average or progress points calculation.

Prior to Fall Semester 1973, the following grades were also used:

WS - Withdrew, Satisfactory . . No effect on units earned or grade point average.

WU - Withdrew, Unsatisfactory . . 0 grade points (equivalent to grade of "F").

IS - Incomplete, Satisfactory . . No effect on grade point average.

IU - Incomplete, Unsatisfactory . . 0 grade points.

P - Passing . . . No effect on grade point average; indicates achievement of a sufficient portion of course objectives to justify the awarding of unit credit.

GRADING OPTIONS

1. Courses graded exclusively Credit/No Credit.
2. Courses graded A, B, C/No Credit--without the student's option to receive a Credit or No Credit grade.
3. Courses graded A, B, C/No Credit--with the student's option to receive a Credit or No Credit grade.
4. Courses graded A, B, C, D, F--with the student's option to receive a Credit or No Credit grade.
5. Courses graded A, B, C, D, F.
6. Courses graded Credit/No Credit--with the student's option to receive a letter grade.
PROGRESS POINTS

Progress points are for the purpose of determining probation and disqualification at the College and are based on the computation as noted under Grading System above. Administrative Symbols are not used in determining progress points.

CREDIT/NO CREDIT GRADING

Any student may elect to be graded on a "Credit/No Credit" (CR/NC) basis in any course approved for credit grading. Courses approved for CR/NC are indicated as such in the Class Schedule.

The student must notify the course instructor in writing of his election of the credit grading system by the Last Day to Add a Course. Request forms are available from instructors or the Admissions and Records Office during the first week of class.

The "Credit" (CR) grade is earned for "C" work or better ("B" or better in graduate courses) as judged by the instructor concerned. "Credit" and "No Credit" (NC) grades will have no effect on grade point average but will affect progress points. Each department determines the maximum number of CR/NC courses applicable to degree requirements, but in no case shall more than one-third of the required upper division or graduate units or courses in a degree program be graded CR/NC. No more than 40 semester units graded on a CR/NC basis may be applied toward a baccalaureate degree. No more than 8 semester units of CR/NC may be applied in a given semester toward a baccalaureate degree.

SCHOLARSHIP STANDARDS *

For the purpose of determining eligibility for a bachelor's degree, a student must earn and maintain a grade point average of at least 2.0 (C) for his entire college record in all courses at California State College, Stanislaus. Failure to maintain standards of minimum competency will result in either Probation or Disqualification.

GOOD STANDING

A student is in good standing when he is eligible to continue enrollment and is free from academic disqualification and disciplinary suspension and expulsion.

For the purpose of determining a student's eligibility to remain at California State College, Stanislaus (Good Standing), both the quality of performance and progress toward his academic objective shall be considered. Such eligibility shall be determined by means of a Progress Point Scale based on the grade and progress point values of grades mentioned under Grading System-Academic Grades.

*The student may also be subject to expulsion, suspension, and/or probation for other causes. See Student Conduct, Rights, and Responsibility in Student Services section of this catalog.
PROBATION

A student shall be placed on probation if, in any fall or spring semester, he fails to earn twice as many progress points as all units attempted during that term. Each student on probation will be expected to meet with his School Dean (Division Chairman) or the Dean's designee to formulate a plan to rectify his academic deficiencies and maintain progress toward a degree.

DISQUALIFICATION

A student shall be disqualified and lose good standing if, while on probation in a fall or spring semester, he fails to earn twice as many progress points as all units attempted during that term or is admitted or readmitted on probation and fails to meet the conditions established at the time of admission.

Any student may also be disqualified if, during any semester, he earns fewer cumulative grade points than cumulative units attempted, and the cumulative grade point deficiency is so great that in view of the student's overall educational record it seems unlikely that the deficiency will be removed within a reasonable period.

A student disqualified at the end of Fall Semester is eligible to attend Winter Term. In such cases the effective date of disqualification shall be the last day of the Winter Term.

SPECIAL ADMINISTRATIVE ACTION

A student may be placed on administrative-academic probation for any of the following reasons:

1. Withdrawal in two successive terms or in any three terms from more than half of the units for which he is registered as of the end of the fourth week of a semester.

2. Repeated failure to progress toward the stated degree or other program objective, when such failure appears to be due to circumstances within the control of the student.

3. Failure to comply, after due notice, with an academic requirement or regulation which is routine for all students or a defined group of students (e.g., failure to take tests, complete specified course work, etc.).

Notification of such action shall provide the conditions for removal from probation and the circumstances which would lead to disqualification.

Furthermore, a student who has been placed on administrative-academic probation later may be disqualified if:

1. The conditions for removal of administrative-academic probation are not met within the period specified, or

2. The student becomes subject to academic probation while on administrative-academic probation, or

3. The student becomes subject to administrative-academic probation for the same or a similar reason for which he has been placed on administrative-academic probation previously, although not currently in such status.

Notification of such action shall provide an explanation of the basis for the action.
REINSTATEMENT AFTER DISQUALIFICATION

Students who are disqualified may be considered for reinstatement by submission of a Reinstatement Petition to their School Dean (Division Chairman). However, reinstatement is generally not approved for the semester immediately following disqualification.

A reinstated student who has not been enrolled at the college for one or more semesters must also apply for readmission at the Admissions and Records Office.

To be reinstated and readmitted, a student must provide before the specified dates listed in the college catalog evidence that future academic performance will be satisfactory.

Reinstated students will be readmitted only if admission quotas permit. Students whose reinstatement petitions are approved will be readmitted on probation only, regardless of the grade point average earned at any other institution.

REPEATED COURSES

Courses may be repeated by undergraduate students and only the most recent grade earned will be used for unit credit and grade points. This policy is effective only for courses repeated during or since Summer 1973. The original enrollment and the repeated effort need not be at the same college if it can be established after faculty consultation, as appropriate, that the courses are equivalent in terms of content and emphases. This provision for repetition is not applicable when a course may be taken additional times for credit.

A student should file a Notification of Repeated Course form at the Admissions & Records Office after he repeats a course.

At admission to the College, the repeated course actions and policies of former institutions will be honored.

ACADEMIC RENEWAL

Courses with unsatisfactory grades either at California State College, Stanislaus or at other colleges may be excluded from credit and grade point consideration if course repetition is inappropriate (e.g., change of major, or courses not offered at CSCS), subject to the following provisions:

1. at least five calendar years have elapsed since the course work was attempted;
2. the student is an undergraduate and has completed at CSCS 15 semester units with a 3.0 (B) grade point average, or 30 semester units with a 2.5 (C+) , or 45 semester units with a 2.0 (C);
3. a maximum of one academic year of course work may be disregarded and when such action is taken all work attempted during those terms must be disregarded; similar actions by other institutions would be counted in determining the one year limit.
4. The student must provide evidence that his past performance was due to extenuating circumstances and that additional enrollment would be necessary to qualify for a degree if his request were not approved.

5. The permanent academic record will be annotated so that a record of all work remains legible, ensuring a true and complete academic history.

This policy is retroactive. A student must initiate such action using an appropriate petition form; upon approval of the faculty adviser, School Dean (Division Chairman), and Vice President for Academic Affairs, admission personnel will implement the policy.

At admission to the College, the academic renewal actions and policies of former institutions will be honored.
NOTE: Students are held individually responsible for knowing and complying with these regulations.

GENERAL EDUCATION CREDIT

The Class Schedule, the Winter Term Bulletin, and this Catalog designate the courses offered during 1976-77 at the College which are applicable to General Education requirements. Only courses so designated are approved for credit applicable to General Education. All enrolled undergraduates should therefore refer to the current catalog section entitled General Education, which lists acceptable General Education courses.

CLASS ATTENDANCE

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, 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.

Students who do not attend the regularly scheduled class meetings during the first week of class after registration may be refused entrance to the class by the instructor. Students are responsible for dropping such classes.

AUDITORS

Admitted students may register in courses as auditors without credit with permission of the instructor provided that enrollment be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so. 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. An auditor may participate in class activities or take examinations with the instructor's consent. Regular class attendance is expected. 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

Any matriculated student pursuing a degree or credential at the College who desires to enroll for a course at another institution or in an extension course at the College must secure prior approval from his major adviser if credit is to be accepted.
Policies and Procedures

Acceptance of credit, however, depends on policies set forth in the catalog section on Evaluation and Acceptance of Credit, and it is the responsibility of the student to find out whether a course taken in concurrent enrollment will be accepted. Application forms are available at the rack across the hall from the Admissions and Records Office.

OFFICIAL PROGRAM LIMITS

A student who wishes to register in excess of 16 units during a fall or spring semester must submit at the time of registration a Request to Exceed Official Program Limits approved by his major adviser and the Dean of his School. Four units is the maximum for which a student may enroll during a winter term.

Units taken for Credit by Examination do not count toward excess units; however, concurrent enrollment courses, audited courses, and courses in which a student is making up an incomplete grade are all counted as part of the student's total course load.

When courses in the 5000 series are included, a program normally may not exceed three courses or 12 units. Students with outside responsibilities are advised to reduce their study loads proportionately. Excess units forms are available at the Admissions and Records Office forms rack.

CREDIT BY EXAMINATION

Any student who possesses or through independent study can acquire the ideas and concepts of a course at CSCS can accelerate progress through the College by means of Challenge Examinations. Credit earned in this manner is not treated as part of the student's work load during the regular term and therefore does not require a petition for excess study load.

Credit earned by Challenge Examinations will not be counted toward fulfillment of the College's residence requirement and may not be counted toward the completion of major and minor requirements except with the express approval of the Major and/or Minor adviser and the appropriate Department Chairman. However, both subject and unit credit (unless otherwise specified) will be granted and counted toward the College's 124 semester unit graduation requirement.

All credit allowed through Challenge Examinations will be ungraded and will be documented in the student's academic record file.

There are presently two types of courses at the College for which a student may receive credit by Challenge Examinations. These examinations are prepared, approved, and evaluated by the appropriate academic department, and administered by the College Testing Office.

CSCS Courses Regularly Offered by Examination

Special course sections for credit by examination may be offered in the Class Schedule by a department. Credit may be earned in these courses by:
Policies and Procedures

1. Enrolling in the course for Credit by Examination during a regular registration period.
2. Taking the Challenge Examination at the time and place specified and passing it at the level deemed satisfactory by the department.

Grades of Credit (CR) or No Credit (NC) will be awarded.

CSCS Catalog Courses

A currently enrolled or formally admitted student who has had special preparation in a given subject and who feels that he has covered the necessary course work may challenge by examination any course currently listed in the CSCS catalog under the following conditions:

1. The student must secure a Request for Credit by Challenge Examination from the Admissions and Records Office, obtain the necessary departmental approvals, pay an examination fee of $3 per semester unit or fraction thereof to a maximum of $10 per course challenge, and file all copies of the completed request with the Director of Testing. Instructions for completing and processing the request are contained in the form.
2. The student must take the Challenge Examination at the time and place specified and pass it at the level deemed satisfactory by the department.

Grades of Credit (CR) or No Credit (NC) will be awarded.

Subject Requirements

Certain specific subject requirements (e.g., U.S. Constitution, State and Local Government, etc.) may be passed by Challenge Examinations under the following conditions:

1. An appropriate course is not offered by the College.
2. Special arrangements must be made with the appropriate department for the preparation of the necessary examination.
3. The student must secure a Request for Credit by Challenge Examination form, secure the necessary approvals, pay an examination fee of $6 and file all copies of the completed request with the Director of Testing.
4. The student must take the Challenge Examination at the time and place specified, and pass it at a level deemed satisfactory by the department.

Subject credit only is granted for this type of Challenge Examination. An appropriate notation certifying completion of the specific requirement will be placed on the student's permanent academic record.

Advanced Placement, CLEP, and English Equivalency Test Programs Credit by Examination may also be secured through the College Entrance Examination Board Advanced Placement Program as well
as by passing appropriate sections of the College Level Examination Program (CLEP) General and Subject Examinations. In addition, students seeking General Education credit in English may take the California State University English Equivalency Test in May of each year. Six semester units of credit are awarded for successfully passing this examination.

In individual cases, a limit may be imposed on the number of units of credit which can be earned through Challenge Exams. Further information concerning these options may be obtained from the Admissions and Records Office or the Office of Testing Services.

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. A total of six units of individual study credit, excluding course work taken in winter terms, is the maximum permitted toward a degree, credential, or other educational objective. These courses are numbered 4980, 5980, and 6980 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 term.

A student seeking to enroll for an Individual Study course must at registration file the original copy of an approved Request for Course by Individual Study form. The second copy is to be filed with the department concerned. Request forms are available at the Admissions and Records Office forms rack. The request for individual study must be approved by the student's individual study instructor, major adviser, and the department head concerned who will retain a copy of approved requests. Approvals should be obtained during the advising for registration period indicated in the Academic Calendar.

SEQUENCE COURSES

No student will be able to take a sequence course for credit which is below the level of a course for which credit was received in the past.

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. Students graduating Spring Semester may also request to have the preceding Winter Term courses included as postbaccalaureate credit if not used for degree requirements. Request forms are obtained from and filed with the Admissions and Records Office.
DECLARATION OR CHANGE OF EDUCATIONAL OBJECTIVES

A student who selects or changes the degree objective at the College after admission must file a Declaration or Change of Degree Objective form with the Admissions and Records Office. To officially change and/or declare an educational objective, all appropriate signatures must be obtained on the form. Students admitted to a credential program will have their names submitted to the Admissions and Records Office by the Division of Education. Juniors and seniors must officially declare a degree major at the College or other specific educational objective.

ADDING AND DROPPING COURSES

No courses may be added or dropped unless submitted on official forms, properly signed and accepted at the Admissions and Records Office during the regular add or drop period. Unauthorized withdrawal or dropping of a course will result in a final grade of F or NC.

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

1. A course may be dropped if an approved Program Change card is filed in the Admissions and Records Office on or before the last day to drop a course as shown in the Academic Calendar.

2. A student may not drop a course after the 20th day of instruction as shown in the Academic Calendar except when approved by the School Dean (Division Chairman) for serious or compelling reasons. Permission to drop a course after this deadline requires the following statements and approval on the "Request to Drop Course with W Grade" form.
   a. A statement of the serious or compelling reasons with supporting evidence.
   b. Report of the course instructor on the student's academic performance to date and recommendation (if any).
   c. Notification of the student's adviser, allowing him the opportunity to provide pertinent information concerning the student's withdrawal (if any).
   d. Approval of the School Dean (Division Chairman).

Students may add courses by filing an approved Program Change card 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 not be registered for any of the terms of an entire academic year may for reasons beyond his control (i.e., compulsory military duty, medical, etc.) request 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. Granting a "leave of absence" to a student does not guarantee readmission to the College nor exempt him for the regular application for readmission procedure and filing dates.

PLANNED STUDENT LEAVES

A Planned Student Leave is an interruption of a student's formal education in which he voluntarily ceases his enrollment at the College to pursue other educationally related activities to complete or enrich his academic program or to clarify his educational goals. The intent of this program is to make it possible for a student to suspend his academic work, leave the campus, and later resume his studies with a minimum of procedural difficulty. Planned Student Leave request forms are available from the Admissions and Records Office. Enrollment at another institution of higher education during a Planned Student Leave is subject to advance Concurrent Enrollment approval.

1. Eligibility

Any enrolled student is eligible to request a Planned Student Leave. Newly admitted students who have not yet registered are also eligible; the primary intent in such instances being to provide an opportunity for beginning students to pause between high school and college, or between community college and four-year college enrollment.

2. Requests for Approval

a. Each Planned Student Leave request must include a stated intent to reenroll at the College within a specified period, and a plan for how the time is to be used in relation to an educational objective. Acceptable requests will be those for planned travel, national service (Peace Corps, Vista), study, or other specific plans which will contribute to the student's educational objectives.

b. The request must be filed prior to the period of absence and is subject to the approvals of the student's assigned academic adviser, the academic dean or division chairman, and the Registrar.

c. Educational leaves may begin at any time. However, if a student chooses to begin a leave while he has course work in progress the student is subject to all normal regulations and clearances (e.g., official withdrawal, financial aid termination, etc.).

3. Duration of Leave

A typical Planned Student Leave will be for one academic year. A student may request, in writing, an extension of his leave prior to its termination. Under no circumstance shall successive leaves exceed two calendar years.
Policies and Procedures

4. Return Responsibilities and Benefits

A student returning from an approved educational leave is required to submit an application for readmission but will not be required to pay another application fee or submit to residency and health screening if terms of the leave have been satisfied. A returning student must specify on his application that he is returning from an approved leave. Readmission is guaranteed providing the readmission application is filed according to the following schedule: Fall, November; Winter and Spring, August—or 30 days after leave approval, whichever is later. A student will be guaranteed his normal registration priority and rights to prior graduation requirements provided leave terms are fully met and proper return procedures are followed.

5. Student Record Entry

Each student enrolled in this program will have an entry made in his records indicating that he is on a planned student leave. The dates of the beginning and conclusion of the leave will also be recorded.

6. Compliance

A student on a Planned Student Leave who does not comply with the provisions of this policy and the conditions of the leave is subject to forfeiture of the advantages of this program.

Withdrawal from College

A student may withdraw from the College by filing an approved Withdrawal card 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 term. An Application for Re-admission must be filed in order to register for a future term. A student who takes unauthorized leave may receive a final grade of P or NC in each course for which he was registered.

Students who officially withdraw by the last day to file for a partial refund of fees will have their refund automatically mailed to the address indicated on the Withdrawal Card. [See Refund Regulations.]

Withdrawals after the 20th day of instruction and prior to the last three weeks of instruction are permissible only for serious and compelling reasons. Permission to withdraw from the College with W grades in all course work after the 20th day requires approval of the School Dean (Division Chairman). Failure to obtain approval will result in NC grades in all course work. Withdrawals shall not be permitted during the final three weeks of instruction except in cases such as accident or serious illness where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an incomplete is not practicable. Written approval is required by the School Dean (Division Chairman).
INCOMPLETE WORK

An incomplete (I) signifies that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons beyond the student's control and that there is still a possibility of earning credit. It is his responsibility to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A written copy of this agreement will be filed with the Department Chairman. A final grade will be assigned when the work agreed upon has been completed and evaluated.

An incomplete must be made up within the time limit set by the instructor and, in any case, no more than one year following the end of the term in which the incomplete was assigned. This limitation prevails whether or not the student maintains enrollment. Failure to complete the assigned work will result in an incomplete reverting to a grade of NC for grading options 1, 2, 3, and 6, and to a grade of F for grading options 4 and 5. (See Class Schedule for grading options.)

In case of prolonged illness or any emergency which necessitates an extension of time to complete the course, the student may petition through his School Dean. Students may not be permitted to graduate until all incompletes are removed. A student is not to reregister in a course in which he has an incomplete.

SATISFACTORY PROGRESS WORK

The "SP" (Satisfactory Progress) symbol is used in connection with courses that extend beyond one academic term. It indicates that work is in progress and has been evaluated and found to be satisfactory to date, but that assignment of a precise grade must await completion of additional work. Cumulative enrollment in units attempted may not exceed the total number applicable to the student's educational objective. Work is to be completed within a stipulated time period. This may not exceed one year except for graduate degree theses for which the time may be up to two years, but may not exceed the overall time limit for completion of all Master's degree requirements. Any extension of time limit must receive prior authorization by the School Dean.

All work must be completed within one calendar year of the date of first enrollment and a final grade will be assigned to all segments of the course on the basis of overall quality. Any extension of this time period must receive prior authorization of the School Dean.

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POLICIES AND PROCEDURES

STUDENT CLASSIFICATIONS

Class level:
- **Freshman**: 0-29½ acceptable completed semester units
- **Sophomore**: 30-59½ acceptable completed semester units
- **Junior**: 60-89½ acceptable completed semester units
- **Senior**: 90 or more acceptable completed semester 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
- **Visitor**: Permitted to register for a single term only

Registration status:
- **Continuing**: Student enrolled in last semester
- **Former**: Returning student who registered in a previous term but not the last semester
- **New**: Student who is registering in a regular term for the first time

Full- and part-time students:

Undergraduate Classification

All undergraduates are classified as full- or part-time according to the unit totals listed below:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Fall/Spring Units</th>
<th>Winter Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>10.0 or more*</td>
<td>3.0 or more*</td>
</tr>
<tr>
<td>3/4</td>
<td>7.0 - 9.5</td>
<td>2.0 - 2.5</td>
</tr>
<tr>
<td>1/2</td>
<td>5.0 - 6.5</td>
<td>1.5</td>
</tr>
<tr>
<td>1/4</td>
<td>4.0 - 4.5</td>
<td>1.0</td>
</tr>
<tr>
<td>Less than 1/4</td>
<td>.5 - 3.5</td>
<td>.5</td>
</tr>
</tbody>
</table>

Note: 1. During the Fall and Spring semesters these classifications also apply to postbaccalaureate students enrolled for less than 4 units of course work applicable to any graduate program.

2. During Winter Term these classifications apply to postbaccalaureate students enrolled for less than 2 units of course work applicable to any graduate program.

*Other agencies (i.e., U. S. Immigration Office, etc.) have the prerogative to define full-time to meet their particular requirements.
Graduate Classification

Postbaccalaureate students enrolled for 4 or more units of course work applicable to a graduate program are classified as full- or part-time according to the unit totals shown below. Students must enroll for 2 or more units applicable to a graduate program during Winter Term to be classified in this category.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Fall/Spring Units</th>
<th>Winter Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>7.0 or more*</td>
<td>2.0 or more*</td>
</tr>
<tr>
<td>3/4</td>
<td>5.5 - 6.5</td>
<td>NA</td>
</tr>
<tr>
<td>1/2</td>
<td>4.0 - 5.0</td>
<td>NA</td>
</tr>
<tr>
<td>1/4</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Less than 1/4</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

GRADE REPORTS TO STUDENTS

A report of final grades in all courses will be sent to the mailing address of a student after the conclusion of each semester, term, and summer session. Units may not in all cases reflect exact totals, i.e., grade changes, clearance of incompletes, repeated courses, etc.

CHANGE OF ADDRESS

A student who changes his mailing or permanent address after admission or registration should immediately notify the Admissions and Records Office. This information is needed in order to insure registration information, grades, correspondence, and other such material reach the student without unnecessary delay. The United States postal service also should be immediately notified of changes in mailing address.

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 fee of $1 for each 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.

* Other agencies (i.e., U. S. Immigration Office, etc.) have the prerogative to define full-time to meet their particular requirements.
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, as appropriate, before being filed with the Admissions and Records Office.

A petition concerning a departmental major, minor, or other requirement should be directed to the appropriate department.

Petitions concerning reinstatement after disqualification are to be filed directly with the major adviser for submission of his recommendation to the School Dean.
FEES AND REFUNDS

Fees are established in accordance with State laws and the regulations of The Trustees of The California State University and Colleges and are subject to change as prescribed by law, without prior notice. Auditors must pay the same fees as students enrolled for credit.

Total registration fees for California residents are approximately $190.00 per academic year ($83.50 per semester; $23.00 for Winter Term). Total registration fees and tuition for non-residents are approximately $1,488.00 per academic year ($646.50 per semester; $195.00 for Winter Term).

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:

<table>
<thead>
<tr>
<th>Units</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0 to 2.5</td>
<td>$42.00</td>
</tr>
<tr>
<td>3.0 to 6.5</td>
<td>48.00</td>
</tr>
<tr>
<td>7.0 to 9.5</td>
<td>54.00</td>
</tr>
<tr>
<td>10 or more</td>
<td>63.00</td>
</tr>
<tr>
<td>Winter Term</td>
<td>18.00</td>
</tr>
</tbody>
</table>

Associated Student's Fees:

<table>
<thead>
<tr>
<th></th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Students (7.0 Units or more)</td>
<td></td>
</tr>
<tr>
<td>Regular Students--Fall Semester</td>
<td>9.00</td>
</tr>
<tr>
<td>Winter Term</td>
<td>2.00</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>9.00</td>
</tr>
<tr>
<td>Limited Students--Fall Semester</td>
<td>4.50</td>
</tr>
<tr>
<td>Winter Term</td>
<td>2.00</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>4.50</td>
</tr>
</tbody>
</table>

Summer Session          | 2.00 |

Except that no student shall be required to pay an aggregate amount in excess of $20 for the entire year.

College Union Fees:

<table>
<thead>
<tr>
<th></th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Students--Each Semester</td>
<td>9.00</td>
</tr>
<tr>
<td>Limited Students--Each Semester</td>
<td>4.50</td>
</tr>
<tr>
<td>Winter Term</td>
<td>2.00</td>
</tr>
<tr>
<td>Summer Session</td>
<td>4.00</td>
</tr>
</tbody>
</table>

Health Facility Fee--Each Semester (nonrefundable) | 2.50 |
---Winter Term (nonrefundable) | 1.00 |
### Fees and Refunds

#### OTHER FEES AND CHARGES (in addition to registration fees)

Nonresident tuition including foreign nonresident:

- For the first 12 units (per unit or fraction of unit): $43.00
- For the 13th unit and over (maximum) per Semester: $563.00

(The total amount of nonresident tuition charged shall not exceed $1,300 per academic year.)

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee (nontransferable &amp; nonrefundable)</td>
<td>$20.00</td>
</tr>
<tr>
<td>Late Registration Fee (nonrefundable)</td>
<td>$5.00</td>
</tr>
<tr>
<td>Graduation Fee</td>
<td></td>
</tr>
<tr>
<td>Check returned from bank for any cause</td>
<td>$5.00</td>
</tr>
<tr>
<td>Transcript of Record</td>
<td>$1.00</td>
</tr>
<tr>
<td>Failure to meet administratively required appointment or time limit</td>
<td>$2.00</td>
</tr>
<tr>
<td>Replacement of equipment or materials lost or damaged</td>
<td></td>
</tr>
<tr>
<td>Library books or materials lost or damaged</td>
<td>Cost plus $1.00</td>
</tr>
<tr>
<td>Summer Session-per unit</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

Extension Courses-per unit:
- Lecture and Discussion Courses: $28.00

Parking Fees
- Nonreserved spaces, autos:
  - Regular students, per semester: $13.00
  - Winter Term: $4.00
- Reserved spaces, per month or major fraction thereof: $8.00
- Two-wheeled, self-propelled vehicles licensed by State Department of Motor Vehicles, per semester: 25% of above
- Alternate vehicle (auto) in addition to fee for first vehicle, per semester: $2.00
- Alternate, two-wheeled vehicle, per semester: $2.00

No fees of any kind shall be required of or collected from those individuals who qualify for such exemption under the provisions of the Alan Pattee Scholarship Act.

### 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 of the school term.

Tuition payable by nonresident and foreign visa students is in addition to fees required of resident students, except for enrollment in extension or summer session.

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 University and Colleges.

Questions regarding residency classification for admission eligibility and tuition purposes should be directed to the Residency Clerk in the Admissions and Records Office.

No tuition fee shall be required of any nonresident student who is a full-time employee of The California State University and...
Fees and Refunds

Colleges or who is the child or spouse of an employee of The California State University and 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

Fees may be refunded only as authorized by Sections 41802, 41803, and 41913 of Title 5, California Administrative Code and other pertinent provisions of law. Whether a fee may be refunded and the circumstances under which a fee or any part of a fee may be refunded, may vary depending on the particular fee involved. Requirements governing refund may include such matters as the reason for seeking a refund (for example, death, disability, compulsory military service), the number of days of instruction which have elapsed before application for refund is made, and the degree to which the campus has provided the services for which the fee has been charged.

Written application for refund of fees must be made on the Withdrawal Card available from the Admissions and Records Office. To receive a partial refund, the completed Withdrawal Card must be received in the Admissions and Records Office not later than the 14th calendar day following the first day of instruction.

Upon official withdrawals from the College by the stated refund deadline, the State will refund the total fees paid less $12.50.

For each unit of nonresident fee charged, the State will refund the entire fee charged during the first week of each semester; thereafter 75% will be refunded the second week, 50% the third week, 25% the fourth week. There will be no refund after the fourth week.

THE STUDENT SERVICES FEE

The Student Services Fee was established in 1974 by the Trustees of The California State University and Colleges in lieu of the Materials and Service Fee. The amount of the fee was not changed at the time, but remained $144 for 12 or more units for the academic year. It is intended that this fee provide financing for the following student services not covered by State funding:

1. Social and Cultural Development. Provides for the coordination of various student activities, student organizations, student government, and cultural programs.

2. Counseling. Includes the cost of counselors' salaries and clerical support, plus operating expenses and equipment.
3. Testing. Covers the cost of test officers, psychometrists, clerical support, operating expenses, and equipment.

4. Placement. Provides career information to students and faculty for academic program planning and employment information to graduates and students.

5. Financial Aids Administration. Includes the cost of the counseling and business services provided in connection with the financial aid programs.

6. Health Services. Provides health services to students and covers the cost of salaries of medical officers and nurses and related clerical and technical personnel, as well as operating expenses and equipment.

7. Housing. Supports personnel who provide housing information and monitor housing services available to students.

8. Student Services Administration. Covers 50 percent of the cost of the Office of the Dean of Students, which has responsibility for the overall administration of student services.

The previous Materials and Service Fee covered not only the above expenditures but also the cost of instructional and audio-visual supplies and contractual services, but a Task Force recommended that the responsibility for financing these expenditures be transferred to the State. It also suggested that the basis for the Student Services Fee be fully and clearly communicated to students and campus staff.

The 1976-77 Student Services Fee is subject to change by Board of Trustees action as necessitated by budget actions of the Executive and Legislative branches of government.

ALAN PATTEE SCHOLARSHIPS

Children of deceased public law enforcement or fire suppression employees, who were California residents and who were killed in the course of law enforcement or fire suppression duties, are not charged fees or tuition of any kind at any California State University or College, according to the Alan Pattee Scholarship Act, Education Code Section 23762. Students qualifying for these benefits are known as Alan Pattee scholars. For further information, contact the Admissions/Registrar's Office, which determines eligibility.

DEBTS OWED TO THE INSTITUTION

From time to time the student may become indebted to the institution. This could occur, for example, when the student fails to repay money borrowed from the institution. Similarly, debts occur when the student fails to pay institution, dormitory, or library fees, or when the student fails to pay for other services provided by the institution at the request of the student.
Should this occur, Sections 42380 and 42381 of Title 5 of the California Administrative Code authorize the institution to withhold "permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt" until the debt is paid. For example, under these provisions the institution may withhold permission to register, and may withhold other services, such as grades and transcripts. If a student believes that he or she does not owe all or part of a particular fee or charge, the student should contact the campus business office. The business office, or another office on campus to which the student may be referred by the business office, will review the pertinent information, including information the student may wish to present, and will advise the student of its conclusions with respect to the debt.

**AVERAGE ANNUAL COSTS AND SOURCES OF FUNDS PER FULL-TIME EQUIVALENT STUDENT IN THE CALIFORNIA STATE UNIVERSITY AND COLLEGES**

The 19 campuses of The California State University and Colleges are financed primarily through funding provided by the taxpayers of California. For the 1975-76 year, the total cost of operation is $657.2 million, which provides continuing support for 230,005 full-time equivalent (FTE*) students. This results in an average cost per FTE student of $2,857 per year. Of this amount, the average student pays $262. Included in this average student payment is the amount paid by nonresident students. The remaining $2,595 in costs are funded by state and federal taxes.

Averages do not fit all students alike or even any specific student. To arrive at an average figure that is meaningful, the costs outlined above exclude "user fees" for living expenses, housing, and parking, as well as costs for extension and summer session work. Computations are based on full-time equivalent students, not individuals, and costs are prorated by system totals, not by campus. The average costs for a full-time equivalent student in the system are depicted in the following chart:

*For budgetary purposes, full-time equivalent (FTE) translates total head count into total academic student load. The term assumes that a full-time student in The California State University and Colleges is enrolled for 15 units of academic credit. Some students enroll for more than 15 units; some students enroll for fewer than 15 units.
### 1975/76 PROJECTION OF TOTAL COSTS OF CAMPUS OPERATION
(Including Building Amortization)

Projected Enrollment: 230,005 FTE

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
<th>Average Cost Per Student (FTE)*</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Approp. (Support)</td>
<td>$538,523,643</td>
<td>$2,371</td>
<td>82.0%</td>
</tr>
<tr>
<td>State Funding (Capital Outlay)**</td>
<td>29,138,200</td>
<td>127</td>
<td>4.4</td>
</tr>
<tr>
<td>Student Charges</td>
<td>60,374,319</td>
<td>262***</td>
<td>9.2</td>
</tr>
<tr>
<td>Federal (Fin. Aids)</td>
<td>29,192,461</td>
<td>127</td>
<td>4.4</td>
</tr>
<tr>
<td>Total</td>
<td>$657,228,623</td>
<td>$2,857</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

*For budgetary purposes, full-time equivalent (FTE) translates total head count into total academic student load. The term assumes that a full-time student in The California State University and Colleges is enrolled for 15 units of academic credit. Some students enroll for more than 15 units; some students enroll for fewer than 15 units.

**The system's wide range of facilities and equipment on the 19 campuses is currently valued at approximately $1.16 billion, excluding the cost of land. Amortized over a 40-year period, they are valued at $127 per FTE student.

***The average costs paid by a student include the student services fee, health facilities fee, college union fee, student body fee, and the nonresident tuition. This amount is derived by taking the total of all student fees and dividing by the total full-time equivalent student enrollment. Individual students may pay more or less than $262 depending on whether they are part-time, full-time, resident or non-resident students.
Student Services

voluntary and confidential basis. The service is free and offers the student both individual and group counseling. Students may contact the Student Services Office, L-102, for further information and an appointment.

HOUSING

Stanislaus has a wide variety of housing including its own on-campus 168-bed coeducational dormitory, 700 private apartments within one block of campus, and various homes for rent and "live-ins." The dormitory is a new addition to the campus and includes lounge space, cafeteria, swimming pool, volleyball courts, etc. There is a Housing Office which lists all available housing and also can arrange for roommates if needed.

FACILITY RESERVATION

The Student Services Office is established to meet student needs and offer assistance so that all students may fully benefit from the educational program. Specific services are listed on the following pages and completely described in the Student Handbook.

INTERNATIONAL PROGRAMS

An overseas study program is offered by The California State University and Colleges International Programs in which students enroll for a full academic year simultaneously at their home campuses, where they earn academic credit and maintain campus residency, and at a distinguished foreign university or a special program center.

Cooperating universities abroad include the University of Provence, France; the Universities of Heidelberg and Tubingen, Germany; the University of Florence, Italy; the Universidad Ibero-Americana, Mexico; the Universities of Granada and Madrid, Spain; the University of Upsala, Sweden; Lincoln College and Massey University, New Zealand; and Waseda University, Japan. In the United Kingdom, cooperating universities, which may vary from year to year, include Aberdeen, Dundee, Rangor, Heriot-Watt, Leicester, London, Oxford, Liverpool, Lampeter, and Sheffield. In addition, California State University and Colleges students may attend a special program in Taiwan, Republic of China, or an architectural program in Copenhagen, Denmark. New Zealand: A special program in agriculture is offered in affiliation with Massey University and Lincoln College. Academic calendar is February to October to allow for Southern Hemisphere's reverse seasons.

Eligibility is limited to students who will have upper division or graduate standing during their year of participation, who have a 2.5 overall grade point average (3.0 for the United Kingdom program), who show ability to adapt to a new environment, and who, in the cases of France, Germany, Mexico, and Spain, have completed two years of college level study (or the equivalent) in the language of instruction at the foreign university. Selection is made by a faculty committee on the student's home campus and by a statewide faculty committee.

The International Programs is supported by state funds to the extent that such funds would have been expended had the student concerned continued to study in California. Students assume costs for pre-departure orientation, insurance, transportation, housing, and meals. Home campus registration fees, tuition on the home campus for out-of-state students (if the student is not a California resident), and personal incidental expenses or vacation travel are not provided.
nine months from the date the borrower ceases to be a full-time or half-time student. In some cases deferment of payment and full forgiveness of the loan and interest may be possible.

COLLEGE WORK-STUDY - Students who qualify for financial aid may be able to work on or off campus for all or a portion of their educational expenses.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG) - These awards are federally funded and are only granted to undergraduate students who have exceptional financial need. Preference is given to those students who come from low-income backgrounds.

LAW ENFORCEMENT EDUCATION PROGRAM (LEEP) - The Law Enforcement Education Program makes available grants for fees and books each semester to full-time employees of law enforcement agencies.

BASIC EDUCATIONAL OPPORTUNITY GRANT (BEOG) - A federal grant program available to undergraduate students. Based on eligibility, grant maximum not to exceed one-half cost of education. Application available from high school counselors or the Financial Aid Office.

STATE EDUCATIONAL OPPORTUNITY PROGRAM GRANT - Students who are admitted to the college under the Educational Opportunity Program and who have financial need may be funded under this state program.

FEDERALLY INSURED STUDENT LOAN PROGRAM (FISL) - Loans are made available to full-time students through private lending institutions such as banks, savings and loans, and credit unions. Repayment of the loan and interest is deferred until nine months after the student has graduated or left school. The application and related forms are available at the Financial Aid Office.

STUDENT ASSISTANT PROGRAM - This work program is funded through the state budget and is administered by the various academic departments on campus.

EMERGENCY LOAN FUND - Emergency loans to meet educational expenses are available to enrolled students. A maximum of $50 may be borrowed with repayment in forty-five days.

Students interested in more information regarding financial aid programs or application procedures should inquire directly to the Financial Aid Office, California State College, Stanislaus.

HEALTH SERVICES

All admitted students must submit a health history statement. It is also strongly recommended that all admitted students obtain a complete physical examination prior to entrance, particularly those who will be involved in intercollegiate athletics.

number of units. Open only to students in California State University and Colleges International Study Program.

ORIENTATION

The orientation program provides new students with an opportunity to learn about services, personnel, activities and the academic department and major. An Orientation Day is held in the Fall and mailed information is sent in the Winter Term and Spring semester.

COUNSELING

The counseling service provides students the opportunity to confront problems such as emotional and social development, marriage and family, drugs and career planning. It is staffed by
Student Services

The College maintains a Health Center in Room 117 of the Classroom Building, which is staffed by a full-time registered nurse and part-time doctors. In some cases referral may also be made to local community doctors or hospitals. These services are provided as part of the student health fees and include emergency, out-patient care for injury and acute illness; transportation; some medications; necessary lab tests and X-rays. Any off-campus referrals are usually limited to one visit under the policy.

SUPPLEMENTAL HEALTH INSURANCE - The very basic emergency out-patient service described above should be supplemented by an individual policy of the student or his parents. The College does offer a group policy which is available on the student's request. The cost is nominal and provision can be made for dependents.

STUDENT GOVERNMENT AND ACTIVITIES

The Associated Students (ASCSCS) is the elected government of the students of CSCS and has a budget of over $50,000 composed of student fees.

The Student Government represents the students on issues of policy, operates a radio station, publishes a weekly newspaper, administers intercollegiate and intramural programs, maintains social and cultural programs, and maintains and operates several additional services for students.

There are also over 25 clubs and organizations on the campus which provide special interest activities to its members.

INTRAMURAL AND INTERCOLLEGIATE ATHLETICS

There is a substantial intramural program available throughout the year including football, basketball, volleyball, etc. The College also participates in eleven intercollegiate sports: baseball, basketball (male and female), golf, cross country, track, tennis (male and female), volleyball (female), soccer and wrestling. The men participate in the Far Western Conference of the NCAA and the women in the Northern California Intercollegiate Athletics Conference.

TESTING

The Testing Office provides a comprehensive program of services for students, faculty and staff. Tests of aptitude, academic achievement, reading proficiency and study habits, vocational interests and temperament/personality are available to students to assist them in making educational, vocational and personal decisions. A program of "Credit by Examination" is also administered by this office, enabling students to obtain academic credit for prior college-level training either formal or informal, and to challenge established college courses under certain circumstances. Information concerning all national testing programs such as Graduate Record Examinations, Medical College Admission Tests and
Student Services

National Teacher Examinations is available. Assistance with test selection, test construction and the analysis and improvement of evaluation techniques is provided on request to faculty, staff and students.

CAREER PLANNING AND PLACEMENT

A career decision may require considerable individual effort expended over a long period of time. Therefore, freshman and sophomore students are encouraged to use the facilities of the Career Planning and Placement Center, located in the Library, room 102. Interest inventories, ability, personality testing, and counseling are among the techniques available for students who wish assistance in evaluating their strengths and weaknesses. A Career Library provides information as to potential career choices. In addition, staff members are glad to assist with the development of a resume, and in organizing a personal information file. Procedures regarding the actual job search, including application forms and interviewing techniques are dealt with when appropriate.

The Placement Center serves as liaison with employers throughout the area who seek full-time personnel. A number of such employers schedule campus interviews during the year and others are willing to see prospective employees at their plant or office. In addition, the Placement Center maintains announcements of openings in teaching, business, and government—both in the immediate area and statewide. The complete list of these openings is filed in the Placement Library. Special announcements and current career information of interest to all students are publicized in the student newspaper, The Signal, the weekly Campus Digest, and the Placement bulletin board, adjacent to the Career Planning Center. Announcements are also sent to academic departments, as appropriate.

In order to utilize effectively the services available in Career Planning and Placement, students are encouraged to visit the center regularly.

CAMPUS TUTORIAL PROGRAM

A tutorial program is available to students who are having difficulty with almost any course on campus. Tutoring is done on an individual basis by students and faculty.

OPERATION SHARE TUTORIAL PROGRAM

The Share tutorial program is a student organized project through which volunteer college students work with elementary school children a minimum of two hours per week. These elementary children are often from disadvantaged backgrounds and need both academic and developmental assistance.
EDUCATIONAL OPPORTUNITY PROGRAM

The program offers students a combination of academic support­ive services (tutoring, counseling, advising, etc.), as well as financial aid, where qualified. A prospective EOP student should (1) contact the campus EOP Office before or at the time of admission application and (2) file an admission application form in the initial filing period under regular admission procedures. Only those seeking special academic admission and/or support services should apply as EOP.

STUDENT CONDUCT, RIGHTS AND RESPONSIBILITY

The College assumes that students are mature individuals who have a serious academic purpose in attending college and that they will conduct themselves individually and in groups in an appropriate manner. Departures from appropriate conduct can result in sanctions from oral reprimands to expulsion. Actions warranting such measures include violations of Title 5 of the California Administrative Code, regulations of the California State University and Colleges, the College or public law. The College and State regulations are outlined in the Student Handbook which can be obtained in L-102 along with procedures used in case of violations. There is also a Statement of Student Rights and Responsibilities and a Student Grievance Procedure in Academic Matters available.

VETERANS PROGRAM

The Office of Veterans Affairs (OVA) offers assistance in securing veterans benefits, in transitional procedures when first enrolling at the College, tutoring, job placement, and financial problems. There is also a Veterans Administration Representative (Vet Rep) assigned to the office to deal with VA related matters.

EDUCATIONAL ASSISTANCE FOR VETERANS - Application for VA and Cal-Vet educational benefits must be made through the Office of Veterans Affairs. The Office of Veterans Affairs forwards all applications and necessary VA forms to the Veterans Administration for final claim determination.

ELIGIBILITY - For Veterans Administration purposes, a veteran is eligible for ten years after the date of his separation if he served for a continuous period of 181 days or more or was discharged or released because of a service connected disability.
UNIT LOAD REQUIREMENTS - Veterans and eligible persons should refer to the section of the catalog entitled "Student Classifications" for listing of units required for full- and part-time enrollment status. This is the schedule that the VA uses in determining pay status.

INFORMATION - Veterans or dependents of veterans should contact the Office of Veterans Affairs for information regarding VA or Cal-Vet benefits, application procedures, or other related services.
GENERAL REQUIREMENTS FOR DEGREES

4-1-4

The 4-1-4 academic calendar inaugurated at California State College, Stanislaus in 1973-74 is a modified semester system. On a yearly basis, the 4-1-4 program requires the same instructional weeks, the same academic credits, and the same fee costs as in a traditional quarter or semester system. The 4-1-4 calendar makes no changes in the basic requirements for a baccalaureate degree. Total units required for graduation, general education requirements, the work required for academic credit—all remain essentially the same.

WINTER TERM

As an integral part of the 4-1-4 program at Stanislaus, winter term courses are required for graduation. Normally, students matriculating as freshmen must complete three winter term courses, students entering as sophomores or juniors must take two courses, and senior transfers must enroll in one winter term. (See Residence Requirements for details.)

Working students who can demonstrate the necessity of a part-time load during winter term may petition to enroll for two units of Individual Study.

If a student is unable to complete a winter term course due to illness or other circumstances beyond his control and thus is unable to fulfill the winter term requirement for graduation, he may petition for an alternative—as is the case with most college requirements.

Winter term requirements do not apply to graduate students, nor to continuing and transfer students who choose to retain the graduation requirements of catalogs prior to 1973-74. All students, of course, are encouraged to enroll in winter term courses.

DEGREES OFFERED

The College grants the Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Master of Business Administration, and Master of Public Administration degrees.

ELECTION OF REGULATIONS

A matriculated student who has been in continuous enrollment pursuing the same objective may elect to meet baccalaureate graduation requirements in effect either at the time of his first entering a degree program at a California community college or CSUC campus, or at the time of his graduation. (See Evaluation and Acceptance of Credit.)
**Application for Graduation**

A prospective candidate for a baccalaureate degree should submit an application for graduation to the Admissions and Records Office when two semesters 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**

Approval of the major adviser and the department concerned is required before the College may award a degree.

**Graduation Honors**

Graduation honors are awarded to students earning baccalaureate degrees at commencement on the basis of their overall grade point average achieved in their undergraduate work, as follows:

- **Cum Laude** . . . . . . . 3.40-3.59
- **Magna Cum Laude** . . . . . 3.60-3.79
- **Summa Cum Laude** . . . . . 3.80-4.00

**Requirements for a Baccalaureate Degree**

To qualify for a baccalaureate degree, a student must satisfy the specific requirements in the following areas:

**Units**

A minimum of 124 semester units is required. At least 40 units must be in courses recognized for upper division credit.

**Residence**

A student must complete a minimum of 24 semester units at the College. At least 12 of these 24 units must be completed among the last 20 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.

In addition, students must complete winter term course work as follows:

1. Students entering as freshmen with less than 15 semester units must complete 12 units of winter term course work.
2. Students entering as freshmen with 15 or more units, entering as sophomores, or entering as juniors with less than 75 semester units must complete 8 units of winter term course work.
3. Students entering as juniors with 75 or more semester units or entering as seniors must complete 4 units of winter term course work.
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 residence credit units attempted at the College.

GENERAL EDUCATION-BREADTH REQUIREMENTS (a)

To provide more options for students, the College has adopted a flexible General Education program within the requirements of the California Administrative Code, Title 5, Section 40405.

The College's General Education requirements total a minimum of 40 semester units. The courses and units are distributed among the four areas of Natural Sciences, Social Sciences, Humanities, and Basic Subjects, as well as courses required in U.S. history, government, and physical education. The College accepts certification of General Education-Breadth requirements by a California community college or other CSUC campus according to regulations of Title 5. The College upon request will certify completion of these requirements to another CSUC campus.

NATURAL SCIENCES (b)

A minimum of 6 semester units are required to include at least one course from each of the following two groups, one of which must include a lab.

1. BIOLOGICAL SCIENCES

   BIOL 1010. Principles of Biology (lab), 4 units
   BIOL 2310. Human Genetics, 2 units
   BIOL 2650. Environmental Biology, 2 units
   BOTY 1050. Introduction to Botany (lab), 4 units
   ZOOL 1050. Introduction to Zoology (lab), 4 units

2. PHYSICAL SCIENCES

   ASTR 2100, 2110. Descriptive Astronomy (lab optional), Lecture, 3 units; lab, 1 unit
   CHEM 1000. Chemistry in the Modern World, 3 units
   CHEM 1100. Principles of Chemistry I (lab), 5 units
   CHEM 1110. Principles of Chemistry II (lab), 5 units
   CHEM 2400. Science of Winemaking, 4 units
   GEOL 2100, 2110. Principles of Geology (lab optional) Lecture, 3 units; lab, 1 unit
   PHSC 1300. Environmental Pollution, 2 units
   PHSC 2100. Basic Meteorology, 3 units
   PHYS 1100. Basic Physics I (lab), 5 units
   PHYS 1110. Basic Physics II (lab), 5 units
   PHYS 1500. Energy and Matter (lab), 3 units
**General Requirements for Degrees**

**SOCIAL SCIENCES (c)**

A minimum of 6 semester units are required to include at least two courses from the following list.

ANTH 2000. Cultural Profiles: Introduction to Peoples of the World, 3 units
ANTH 2060. Introduction to Cultural Anthropology, 3 units
ANTH 2080. Introduction to Physical Anthropology, 3 units
ANTH 2090. Introduction to Prehistoric Archeology, 3 units
ECON 2500. Principles of Economics I, 4 units
ECON 2510. Principles of Economics II, 4 units
ETHS 2000. Contemporary Black Studies, 3 units
ETHS 2100. Contemporary Chicano Studies, 3 units
ETHS 2200. Contemporary Asian-American Studies, 3 units
ETHS 2300. Contemporary Native American Studies, 3 units
GEOG 2000. Introduction to the Physical Environment, 3 units
GEOG 2010. Introduction to Cultural Geography, 3 units
GEOG 2400. World Regional Geography I, 3 units
GEOG 2410. World Regional Geography II, 3 units
HIST 1010. Western Civilization I, 3 units
HIST 1020. Western Civilization II, 3 units
HIST 2050. Third World I, 4 units
HIST 2060. Third World II, 4 units
PSCI 2020. Politics & Society, 3 units
PSCI 2600. Issues in International Politics, 3 units
PSYC 2010. Introduction to Psychology, 3 units
PSYC 2150. Psychology of Marriage & Adjustment, 3 units
SOCL 1010. Introduction to Sociology, 3 units
SOCL 2240. Social Problems, 3 units

**HUMANITIES (d)**

A minimum of 5 semester units are required to include at least one course from each of the following two groups.

1. LITERATURE/PHILOSOPHY

   ENGL 1010. Introduction to Literature, 3 units
   ENGL 1500. Perspectives in Literature, 3 units
   ENGL 2501. Perspectives in American Literature, 3 units
   PHIL 1010. Introduction to Philosophy, 3 units
   PHIL 2200. Ancient Greek Philosophy, 3 units
   PHIL 2230. Seventeenth & Eighteenth Century Philosophy, 3 units

2. ARTS

   ART 1000. Introduction to Drawing, 3 units
   ART 2100. Art History Survey I, 3 units
   ART 2110. Art History Survey II, 3 units
General Requirements for Degrees

DRAM 1010. Introduction to Theatre, 3 units
DRAM 2010. Theatre & Society, 3 units
DRAM 2300. Theatre Workshop I, 2 units
DRAM 2350. Rehearsal & Performance, 3 units
MUS 1000. Introduction to Music, 3 units
MUS 2400. Orchestra, 1 unit(e)
MUS 2410. Chorale, 1 unit(e)
MUS 2420. College Choir, 1 unit(e)
MUS 2430. Chamber Singers, 1 unit(e)
MUS 2440. Symphonic Wind Ensemble, 1 unit(e)

BASIC SUBJECTS

A minimum of 8 semester units are required to include at least one course from each of the following three groups.

1. ENGLISH COMPOSITION(f)
   ENGL 1000. English Composition, 3 units

2. MATHEMATICS(g)
   MATH 1000. Math for Liberal Arts Students, 3 units
   MATH 1030. Elementary Foundations of Mathematics I, 3 units
   MATH 1040. Elementary Foundations of Mathematics II, 3 units
   MATH 1050. Basic College Algebra, 3 units
   MATH 1100. Precalculus, 3 units
   MATH 1410. Calculus I, 4 units
   MATH 1420. Calculus II, 4 units
   MATH 1500. Finite Mathematics, 3 units
   MATH 1600. Statistics, 4 units
   MATH 1610. Statistics for Decision Making, 3 units
   MATH 1910. Calculus with Applications I, 3 units
   MATH 1920. Calculus with Applications II, 3 units

3. OTHER BASIC SUBJECTS
   BUS 2000. Introduction to Computers, 2 units
   ENGL 2050. Technical & Report Writing, 3 units
   FREN 1010. Elementary French I, 4 units
   FREN 1020. Elementary French II, 4 units
   GERM 1010. Elementary German I, 4 units
   GERM 1020. Elementary German II, 4 units
   MATH 1150. Conversational Basic Programming, 2 units
   MATH 1200. Computers in Society, 3 units
   MATH 2000. Introduction to Computers, 3 units
   PHIL 1100. Logic, 3 units
   SPAN 1010. Elementary Spanish I, 4 units
   SPAN 1020. Elementary Spanish II, 4 units
   SPCH 2000. Speech Communication, 3 units
   SPCH 2010. Oral Communication Processes, 4 units
   SPCH 2100. Discussion and Debate, 3 units
   SPCH 2101. Interpersonal & Small Group Methods, 3 units
   SPCH 2400. Oral Interpretation, 3 units

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GENERAL REQUIREMENTS FOR DEGREES

ADDITIONAL COURSES

In addition to a minimum of 32 semester units selected from the above four areas of Natural Science, Social Science, Humanities, and Basic Subjects, students must also complete course requirements in U.S. history, government, and physical education as indicated below.

1. UNITED STATES HISTORY AND CONSTITUTION: CALIFORNIA STATE AND LOCAL GOVERNMENT

The California Administrative Code, Title 5, Section 40404 requires "... appropriate courses in the Constitution of the United States, and in American history, including the study of American institutions and ideals, and of the principles of state and local government established under the Constitution of this State ....". Completion of the following courses will satisfy these requirements:

A. One of the following courses covering United States history:

HIST 2600. Problems in U.S. History, 3 units
HIST 3610. Colonial America, 3 units
HIST 3620. Ante-Bellum America, 3 units
HIST 3630. America After the Civil War, 3 units
HIST 3640. Contemporary America, 3 units

B. One course covering United States Constitution and California State and local government:

PSCI 1200. American Government, 3 units

(a) Any student who is under catalog year graduation requirements prior to 1975-76 will be permitted to substitute this program of General Education requirements for one of a prior year.
(b) Requirements may be satisfied by acceptable scores on the CLEP Natural Sciences General Examination.
(c) Requirements may be satisfied by acceptable scores on the CLEP Social Sciences General Examination.
(d) Requirements may be satisfied by acceptable scores on the CLEP Humanities General Examination.
(e) Course must be taken two consecutive semesters for credit to be applicable.
(f) Requirement may be satisfied by acceptable score on the CSUC English Equivalency Examination.
(g) Requirement may be satisfied by acceptable score on the CLEP Mathematics General Examination.
(h) Students may satisfy subject requirements in United States History and Constitution and California State and Local Government by passing departmental examinations in these fields. HIST 4740, Constitutional History of the United States, 3 units, will fulfill the U.S. Constitution portion of these requirements.
2. PHYSICAL EDUCATION

A one-semester physical education activity course at the PHED 1000 level is also required by the College for a baccalaureate degree.\(^{(i)}\)

A minimum of 40 semester units of General Education is required. Any undergraduate course is acceptable as additional units toward this requirement, except for those in the discipline(s) of a student's major. For example, a physical education major may take zoology for additional units, but not physical education or health courses.

**MAJOR**

The major consists of a pattern of upper division courses which are prescribed by the department or school concerned, are exclusive 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 24 upper division semester units in that discipline. More than one major may be completed.

The College offers programs leading to the baccalaureate with a major in the following areas (available concentrations indicated):

<table>
<thead>
<tr>
<th>Anthropology</th>
<th>History</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethnology</td>
<td>History of Religions</td>
</tr>
<tr>
<td>Physical Anthropology</td>
<td>Liberal Studies</td>
</tr>
<tr>
<td>Prehistoric Archaeology</td>
<td>Bilingual/Cross-Cultural Studies</td>
</tr>
<tr>
<td>Art</td>
<td>Mathematics</td>
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<tr>
<td>Biological Sciences</td>
<td>Environmental Sciences</td>
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<td></td>
<td>Operations Research</td>
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<tr>
<td>Botany</td>
<td>Statistics</td>
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<tr>
<td>Entomology</td>
<td>Music</td>
</tr>
<tr>
<td>Environmental Sciences</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Marine Biology</td>
<td>Physical Sciences</td>
</tr>
<tr>
<td>Zoology</td>
<td>Applied Physics</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Earth &amp; Space Sciences</td>
</tr>
<tr>
<td>Accounting</td>
<td>Environmental Sciences</td>
</tr>
<tr>
<td>Finance</td>
<td>Physics</td>
</tr>
<tr>
<td>Marketing</td>
<td>Environmental Sciences</td>
</tr>
<tr>
<td>Operations Administration</td>
<td>Political Science</td>
</tr>
<tr>
<td>Personnel Management</td>
<td>Public Administration</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Psychology</td>
</tr>
<tr>
<td>Environmental Sciences</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Child Development</td>
<td>Interdepartmental Program</td>
</tr>
<tr>
<td>Drama</td>
<td>Administration of Justice</td>
</tr>
<tr>
<td>Economics</td>
<td>International Studies</td>
</tr>
<tr>
<td>English</td>
<td>Urban &amp; Community Studies</td>
</tr>
<tr>
<td>French</td>
<td>Sociology</td>
</tr>
<tr>
<td>Geography</td>
<td>Corrections</td>
</tr>
</tbody>
</table>

\(^{(i)}\) A student may be exempted from the physical education requirement if the student is over 25 years of age.
General Requirements for Degrees

Spanish
Special Major
Speech
  Communication Disorders
  Organizational Communication

Note: Students seeking teaching credentials are advised to consult a credential adviser. (See Division of Education.)

As the College grows, new majors will be added. Freshmen may claim any additional majors developed and offered by the time they reach upper division standing.

SPECIAL MAJOR

Special academic programs leading to a degree not accommodated by existing standard degree programs are available for strongly motivated students at the College. A program as designed jointly with a volunteer committee of faculty advisers may be submitted for approval on a Request for Special Major Program form. This committee must consist of three professors from at least two schools. A student interested in a Special Major program may search out a volunteer faculty advisory committee on his own.

Permission of the Council of Academic Deans and the Vice President for Academic Affairs is required in all cases. For meritorious programs, the Council of Academic Deans is prepared to suspend normal College rules governing majors, minors, general studies, and the like (but not State laws nor Trustee regulations). The proposal may be for a special major only or for a comprehensive program covering the student's undergraduate experience at the College. The applicant must have at least 30 semester units remaining to complete minimum requirements for a baccalaureate degree at the College before permission may be granted for a Special Major.

MINOR

Completion of a minor is a requirement for a baccalaureate degree when required by the department of the major. A minor is a pattern of prescribed course work consisting of a minimum of 8 upper division semester units and a minimum of 15 semester units in courses acceptable to the major adviser and the department concerned. Departmental minors normally require one-half of the number of units required for a major within a department. More than one minor may be completed.

A minor for the baccalaureate degree, if required, may be selected from the listing below:

<table>
<thead>
<tr>
<th>Anthropology</th>
<th>Business Administration</th>
<th>Economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>Chemistry</td>
<td>English</td>
</tr>
<tr>
<td>Art History</td>
<td>Chicano Studies</td>
<td>Ethnic Studies</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>Earth Sciences</td>
<td>French</td>
</tr>
<tr>
<td>Black Studies</td>
<td></td>
<td>Geography</td>
</tr>
</tbody>
</table>
General Requirements for Degrees

German, History, History of Religions, Mathematics, Music, Philosophy, Physical Education, Physical Sciences, Physics, Political Science, Psychology, Sociology, Spanish, Speech, Technology & Change

As the College grows, new minors will be added. Freshmen may also claim any additional minors developed and offered by the time they reach upper division standing.

DEPARTMENTAL REQUIREMENTS

All requirements of the department of the major must be completed to qualify for a baccalaureate degree.

ALL COLLEGE REGULATIONS

Compliance with all regulations prescribed by the College is a requirement for graduation with a baccalaureate degree.

REQUIREMENTS FOR AN ADDITIONAL BACCALAUREATE DEGREE

To qualify for an additional baccalaureate degree at the College, students must:

1. Complete a minimum of 24 semester units in residence at the College after requirements for their last degree have been fulfilled; at least 12 of these units must be in the subject field of the student's current major; and at least 4 units in winter term course work.
2. Comply with all graduation requirements of the College including the General Education requirements and approval by the major adviser, department of the major, and the faculty.
3. Maintain at least a 2.0 (C) grade point average for all Stanislaus residence course work taken while pursuing the additional degree.
4. Complete a major in a discipline other than that in which a previous degree was earned.

Rather than complete requirements for an additional degree, a postbaccalaureate student may, if preferred, complete only requirements for an additional major. Such a program must be completed under the supervision of an academic department and is certified only through the Admissions and Records Office.
GRADUATE PROGRAMS

The College offers Master of Arts programs in Education, English, History, Psychology, and Speech; Master of Business Administration; Master of Public Administration; and a Master of Science program in Psychology. Specific requirements within these degree programs will be found in the catalog sections of the department concerned.

GRADUATE APPLICATION PROCEDURES

All applicants for any type of postbaccalaureate status (e.g., master's degree aspirants, those seeking credentials, and those interested in taking courses for professional growth, etc.) must file a complete application packet for admission to postbaccalaureate status within the appropriate filing period. A complete application packet for admission to postbaccalaureate status includes an "Application for Admission/Readmission," a "Supplemental Application for Postbaccalaureate/Graduate Admission," and the $20 non-refundable application fee. Postbaccalaureate applicants who were enrolled as undergraduate students at Cal State Stanislaus in the term immediately preceding the term for which they now wish to apply are also required to complete and submit an application packet and remit the $20 non-refundable application fee. Applicants seeking financial aid should also complete and submit with the application material specified above, an "Application for Financial Aid."

Since applicants for postbaccalaureate programs will be limited to the choice of a single campus on each application, redirection to alternative campuses will be minimal. In the event that a postbaccalaureate applicant wishes to be considered by more than one campus, it will be necessary to submit a separate application (and fee) to each.

Application materials may be obtained from the Admissions Office or the Graduate Studies Office of any campus within the California State University and Colleges system and should be filed with the campus of choice.

Applicants must contact the department for instructions regarding specific departmental admission procedures.

TRANSCRIPTS

A graduate who is seeking admission to postbaccalaureate study, a graduate program, or a credential program must request that two copies of complete official college transcripts be sent directly to the Admissions and Records Office from each college (other than Stanislaus) and university at which he registered.
ADMISSION TO POSTBACCALAUREATE STANDING: UNCLASSIFIED

A student not having a graduate degree or credential objective may be admitted to Unclassified Postbaccalaureate standing. Such admission requires an acceptable baccalaureate degree or equivalent academic preparation as determined by the College, and good standing in the last college attended.

Students admitted in this category are those having declared undergraduate objectives (e.g., a second bachelor's degree) or students seeking to enroll in specific courses for personal or professional growth.

ADMISSION TO GRADUATE STANDING: CONDITIONALLY CLASSIFIED

Students seeking admission to a specific graduate degree program who have deficiencies in prerequisite preparation may be admitted to the program with conditionally classified standing. Students admitted on conditionally classified status will be informed by their departments of deficiencies to be made up in order to have their conditional standing removed.

ADMISSION TO GRADUATE STANDING: CLASSIFIED

Graduate classified standing is awarded to an applicant for admission to a degree program who meets all the criteria for admission specified by the College and the department(s) offering the program.

ADVANCEMENT TO MASTER'S DEGREE CANDIDACY

Classified graduate standing gives a student permission to work toward qualifying for candidacy. Advancement to candidacy gives a student permission to proceed toward qualifying for the degree. Requirements for advancement to candidacy include the following:

1. Classified graduate standing, including satisfactory performance on any required test.
2. Completion of any undergraduate prerequisites which the adviser specifies.
3. Satisfactory completion of such departmental and scholastic achievement tests as may be required.
4. A minimum grade point average of 3.0 (both overall and at the College) on all upper division and graduate course work from the date of embarking on the first course of the proposed master's degree program.
5. Satisfactory completion of the foreign language requirements for those programs having such a requirement.
6. Completion at the College of appropriate course work in the program with a 3.0 average on all completed work appearing on the program.
7. Approval by the appropriate departmental graduate committee.
8. As soon as possible after the completion of Steps 1 through 7, submission to the department of a properly signed petition for advancement to candidacy, including a departmentally approved program of graduate study for the master's degree.

MASTER'S DEGREE PROGRAM REQUIREMENTS

The program requirements for master's degrees assume substantial undergraduate preparation to the field. A student lacking this preparation will find it necessary to exceed the minimum requirements indicated below.

The program for the master's degree is a coherent pattern of (1) courses specified for an approved field of concentration, and (2) additional courses selected to meet the student's particular needs. It consists of at least 30 units completed after the bachelor's degree and within seven years just preceding the granting of the master's degree. Only graduate courses (5000 series) and such upper division courses as are recommended by the departments and 6000-series courses approved by the schools are acceptable in the unit requirement. Other courses are counted in calculating the student's study load, but cannot be counted toward the unit requirement for the master's degree. The total program must include the following:

1. At least 21 units of the program must be Stanislaus residence credit, 6 units of which must have been taken at Stanislaus prior to enrolling for the thesis or project or for a seminar alternative to the thesis.

2. Of the 30 units for the degree, not more than 9 units may consist of any combination of approved student teaching, extension courses, or transfer of credit. Student teaching credit is not ordinarily used on master's degree programs. In unusual circumstances, if student teaching is demonstrably appropriate to a program, up to 3 units of such work may be approved by the school committee. Credit by examination may be used to fulfill prerequisites, but may not apply toward the 30 units. Extension credit is not regularly used on master's degree programs; special cases, however, may be ruled upon by the appropriate school dean. Transfer extension and correspondence credit may be used toward a master's degree only if the institution offering the work would use it on a comparable master's degree program and if it is judged by appropriate school dean to be particularly relevant to the individual student's program.

3. With approval of departmental graduate adviser, post-baccalaureate credit allowed for work taken in the term or summer in which the baccalaureate degree is granted may be applied toward a master's degree, if it meets master's degree criteria in all respects.

4. At least half of the units must be in courses designed primarily for master's degrees (numbered in the 5000 series). Most programs require more than 15 units of 5000 series course work.

5. Appropriate course work from a field other than the major may be required at the discretion of the major department.
6. Appropriate provision must be made for a thesis, a project, or, when permitted, a seminar alternative.

It is the student's responsibility to complete the specific courses listed on his program. Once a program has been approved by the student's graduate committee, it may be changed only on the written request of the student and his department adviser and with the approval of the department chairman.

FOREIGN LANGUAGE REQUIREMENT

Foreign language is not a general college requirement for admission to or completion of the master's degree program at the College. However, for advancement to candidacy, demonstration of competence, usually equivalent to that achieved through two years of collegiate study of one foreign language, is required in specified majors in which upper division and graduate courses demand such competence.

Ordinarily, the requirement calls for demonstration of the ability to read materials of the major in one appropriate foreign language.

GRADE REQUIREMENTS

1. All graduate students will be held to the scholarship standards listed under Academic Standards.

2. No course with a grade below C may apply on a master's degree program.

3. To be eligible for advancement to candidacy, a student must have earned a B average on all upper division and graduate course work completed after the date of embarking on the first course to be included in the master's degree program.

To be eligible for the granting of the degree, a student must have maintained a B average on his complete program. Any grade earned in a course on the program continues to figure in the grade point average, even if that course is for any reason later dropped from the program. To be eligible to receive the master's degree with distinction, a student must be nominated by his department and must have earned at least a 3.9 grade point average on the program for the master's degree or on all upper division and graduate work subsequent to the bachelor's degree.

EXAMINATIONS

Besides regular course examinations, some master's degree programs at the College require qualifying examinations for classified standing and advancement to candidacy and in some instances final oral or written comprehensive examinations at the conclusion of the program.
QUALIFYING EXAMINATIONS

Among the qualifying examinations used by some departments are the Aptitude Test and the Advanced Test of the Graduate Record Examinations, a nationally standardized group of examinations prepared and scored by the Educational Testing Service. Graduate Record Examinations are given four times a year in various parts of the world; students taking the examination at any of the testing centers may request that their scores be sent to the College Test Office. The College Test Office administers the test on the College campus. For information about dates, fees, and application procedures, consult the Test Office.

FINAL EXAMINATIONS

In addition to the qualifying examinations, all departments reserve the right to require written or oral comprehensive examinations when circumstances demand. A few departments require final comprehensive examinations of all candidates, and most departments requiring a thesis also require an oral defense of the thesis. Graduate students are urged to consult their graduate adviser about examination requirements.

EXTENSION OF TIME

A period of seven years is allowed for the completion of all requirements for the master's degree. A student whose program has been interrupted by military service should consult the dean of the school about provisions for military extensions. Otherwise, time may be extended only by the substitution of recent courses for outdated ones or by the passing of comprehensive examinations in the relevant courses or subject field.

THESIS, PROJECT, AND THESIS ALTERNATIVE

The College has adopted the following definitions of the terms "thesis" and "project":

1. A thesis is the systematic study of a significant problem. The problem, its major assumptions, its significance, the methods and sources for gathering data, the analysis of data, and the conclusions and recommendations are clearly stated.

2. A project may take either of the two following forms: The systematic development of a plan for, or the critical evaluation of, a significant undertaking, or A creative work such as a novel, a musical composition, or a group of paintings.

In either type of project criteria employed in developing the plan, or in making the evaluation of the task, the details of the plan or evaluation, the methods used, and the supporting data are clearly stated.

3. A thesis alternative is a specifically designed or selected seminar designated by a department as acceptable in lieu of the thesis.
No academic distinction is made between a thesis and a project. Either one is equally acceptable as a means of fulfilling the requirements for the master's degree. Specific departmental instructions or requirements should, however, be ascertained by the candidate before enrollment in courses numbered 5990.

Whether a student is preparing a thesis or a project, it should be noted that quality work accomplished is a major consideration in judging acceptability. The finished product must evidence originality, appropriate organization, clarity of purpose, critical analysis, and accuracy and completeness of documentation where needed.

Critical thinking and independent thinking should characterize every project. More description, cataloging, compilation, or other superficial procedures are not adequate.

The quality of writing, format, and documentation must meet standards appropriate for publication in the scholarly journals of the field, or consistent with the dictates of an authorized stylebook.

1. Registration for thesis requires authorization by the department chairman. If, however, a student fails to enroll within one semester (excluding summer sessions) after his official acceptance by a thesis committee, the committee is dissolved, and a new committee must be appointed before registration can be processed. A student planning to register or reregister for thesis after a break in regular semester attendance must be readmitted to the College.

2. A student whose thesis is planned to extend over more than the term in which he first enrolls in 5990 may receive a Satisfactory Progress (SP) grade.

3. Before a thesis is officially accepted by the Vice President's office, it must meet the criteria on matters of format, documentation, and quality of writing. The semifinal draft, initialed by the thesis chairman as acceptable with technical corrections, should be submitted to the Vice President for Academic Affairs at least three weeks before the last day of scheduled final examinations.

4. Four copies signed by the thesis chairman and ready for binding, together with the school or departmental clearance form, must be submitted to the Vice President's office no later than one week before the last day of scheduled final examinations. Three bound copies of the thesis are retained by the College--two go to the Library and one to the student's department. Binding expenses for copies retained by the College are the student's responsibility.

5. A student may arrange to have the thesis published in microfilm form, with an abstract of the thesis published in the quarterly periodical Masters Abstracts. This form of publication is encouraged by the College. Further details of the microfilming and copyright procedure may be obtained from the College Librarian.
APPLICATION FOR GRADUATION WITH A MASTER'S DEGREE

A request that the master's degree be granted must be filed (including verification of payment of the graduation fee) at the Admissions and Records Office in the first two weeks of a term or first week of a summer session in which the work is to be completed. Dates for filing applications are listed in the Academic Calendar. Diplomas for those completing degree requirements during summer sessions and at midyear will be awarded at the following June commencement exercises.

Failure to complete requirements for the degree during the term of the application necessitates the filing of a new application for the term of actual completion.
ANNOUNCEMENT OF COURSES
COURSE NUMBERING SYSTEM
DEPARTMENTAL REQUIREMENTS
COURSE DESCRIPTIONS
COURSE NUMBERING SYSTEM

COURSE LEVEL IDENTIFICATION

1-999 Subcollegiate
1000-2999 Lower division courses designed primarily for freshmen and sophomores
3000-4999 Upper division courses designed primarily for juniors and seniors, and certain selected courses for graduate students. These courses should be taken by freshmen and sophomores only under unusual circumstances approved by both the instructor and major adviser.
5000-5999 Graduate courses for degrees. These courses are open only to qualified graduate students.
6000-6999 Professional postbaccalaureate courses.
8000-8999 Courses not applicable to baccalaureate or advanced degrees. These courses are often unique in format, experimental in content, and provide opportunities to pursue intellectual, civic, and cultural interests. Includes non-credit courses.

During Spring 1963 to Spring 1967, appearance of the letter "G" following a course title on a student's permanent academic record indicates graduate-level credit in courses recommended by the College as applicable to advanced degree programs.

SPECIAL COURSE NUMBERS

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

4920, 5920, and 6920 Workshops
4940, 5940, and 6940 Field Work
2950, 4950, and 5950 Selected Topics
4960 Senior Seminars
2970, 4970, 5970, 6970 Offered only Winter Term
4980, 5980, and 6980 Individual Study
4990 and 5990 Thesis

EXPLANATION OF COURSE NOTATIONS

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

1. The figure in parentheses following the course title indicates the number of semester units for the course. Courses offered for varying units are indicated as (2-4), (1-5), etc.

2. A notation such as (Formerly 450), at the end of a course description indicates the course was previously numbered 450.

3. Winter Term courses are not described in this catalog but are described in a Winter Term bulletin.
Administration of Justice:
A Concentration Within the Social Sciences Major

Michael H. Moynihan, Ph.D., Director

The Administration of Justice Program leads to a Bachelor of Arts, Social Sciences. The concentration prepares students for careers in law enforcement, corrections, probation, and parole. The program includes scheduling for both in-service and pre-service students.

REQUIREMENTS FOR THE DEGREE WITH A CONCENTRATION IN ADMINISTRATION OF JUSTICE

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete one course in research methods, SOCL 2030 (4 units), and the major, consisting of not less than 32 upper division units from the list below as approved by the major adviser:

   4 courses in Sociology (select from Section B)
   3 courses in Psychology
   3 courses in Political Science (Jurisprudence)
   1 interdisciplinary Social Science Seminar
   ___ (Administration of Justice Section)

11 courses of not less than 32 upper division units. A maximum of 8 units of Winter Term CR graded course work may apply toward the major.

3. No minor is required.

REQUIRED AND RECOMMENDED COURSES:

1. SOCIOLOGY. Prerequisite: SOCL 1010, Introduction to Sociology, 3 units

   A. Research Methods
      SOCL 2030. Research Methods, 4 units

   B. Criminology: Criminal Justice (Select 4)
      SOCL 3020. Criminal Justice Research, 3 units
      SOCL 3250. Criminal Justice I, 3 units
      SOCL 4120. Sociology of Crime & Delinquency, 3 units
      SOCL 4130. Sociology of Correction, 4 units
      SOCL 4140. Sociology of Law, 3 units
      SOCL 4240. Social Deviance, 3 units
      SOCL 4250. Criminal Justice II, 3 units
2. PSYCHOLOGY. Prerequisite: PSYC 2010, Introduction to Psychology, 3 units

Select 3 from the courses below:

- PSYC 3130. Human Development, 3 units
- PSYC 3160. Introduction to Psychological Testing, 3 units
- PSYC 3310. Introduction to Social Psychology, 3 units
- PSYC 3320. Introduction to Personality, 3 units
- PSYC 3350. Introduction to the Study of Abnormal Behavior, 3 units
- PSYC 3790. Introduction to Counseling Theory, 3 units

3. POLITICAL SCIENCE (JURISPRUDENCE).
   Prerequisite: PSCI 1200 American Government, 3 units

Select 3 from the courses below:

- PSCI 3220. Constitutional Law, 4 units
- PSCI 3260. Urban Justice, 3 units
- PSCI 3300. Introduction to Public Administration, 3 units
- PSCI 4200. Problems in Civil Liberties, 3 units
- PSCI 4210. The Judicial Process, 3 units
- PSCI 4315. Public Policy Making, 3 units
Anthropology

Joel S. Canby, Ph.D., Professor, Chairman
Lewis K. Napton, Ph.D., Professor
Thomas E. Durbin, Ph.D., Associate Professor
Corinne P. Armstrong, M.A., Assistant Professor
Carol P. Carson, M.A., Assistant Professor

The Department of Anthropology and Geography offers the Bachelor of Arts, Anthropology. The major is designed for students preparing for a career in teaching of the social and biological sciences, and for students preparing for graduate work in anthropology and the various geographical area and interdisciplinary specializations such as African Studies, Asian Studies, Latin American Studies, etc.

Anthropology may also be used as a field for the degree Bachelor of Arts, Social Sciences. (For further information, see Social Sciences.)

REQUIREMENTS FOR THE BACHELOR OF ARTS, ANTHROPOLOGY

1. Anthropology majors are to:
   1. Complete requirements for the Bachelor of Arts degree.
   2. Complete prerequisites to the major.
   3. Complete the major of not less than 30 upper division units as approved by the major adviser; of these no more than 8 units of CR graded course work may apply toward the major.
   4. Completion of a minor is not required.

DEGREE MAJOR IN ANTHROPOLOGY

Prerequisites to the Major:

1. ANTH 2060. Introduction to Cultural Anthropology, 3 units
   ANTH 2080. Introduction to Physical Anthropology, 3 units
   ANTH 2090. Introduction to Prehistoric Archaeology, 3 units

2. General Education applicable courses which serve as a useful background for anthropology are listed below; students should include as many of these as practicable while completing General Education requirements. Reading ability in at least one foreign language is also recommended.

Recommended courses to support the major:

   BIOL 2310. Human Genetics, 2 units
   BIOL 3810. Evolution, 2 units
   ECON 2500, 2510. Principles of Economics I & II, 8 units
Anthropology

ENGL 2050. Technical & Report Writing, 3 units
GEOG 2020. Intro. to Cultural Geography, 3 units
GEOG 2400. World Regional Geography I & II, 6 units
GEOL 2100. Principles of Geology, 3 units
HIST 1010, 1020. Western Civilization I & II, 6 units
MATH 1600. Statistics, 4 units
MATH 2000. Introduction to Computers, 3 units
PHIL 1100. Logic, 3 units
PSYC 2010. Intro. to Political Science, 3 units
PSYC 2020. Introduction to Psychological Methods, 3 units
SOC 1010. Intro. to Political Science, 3 units
ZOOL 1050. Introduction to Zoology, 4 units
ZOOL 2250. Anatomy Laboratory, 2 units
ZOOL 4600. Animal Behavior-Ethology, 3 units

The Major

A minimum of 30 upper division units distributed as follows:

Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 3650. History of Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Ethnography</td>
<td>6</td>
</tr>
<tr>
<td>Ethnology</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Prehistoric Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Elective upper division units in anthropology</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

CONCENTRATION

Concentrations are obtained by completing the above program and taking all upper division electives in either Ethnology, Physical Anthropology, or Prehistoric Archaeology. Such concentrations will be recorded on the students' transcripts.

DEGREE MINOR IN ANTHROPOLOGY

The minor consists of 21 units, including at least 12 units of upper division courses in anthropology, normally to be distributed as listed below. In addition, minors wishing to specialize in one area of anthropology may do so with the approval of their minor adviser. No more than 8 units of CR graded course work may apply toward the minor.

<table>
<thead>
<tr>
<th>Prerequisites to the major in anthropology</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 3650 History of Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Ethnography or Ethnology</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Prehistoric Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>21</td>
</tr>
</tbody>
</table>
Anthropology

TEACHING CREDENTIALS

Anthropology majors interested in multiple subject or single subject credentials are referred to the Education section of the catalog for a description of teaching credential programs.

LIBERAL STUDIES CONCENTRATION IN ANTHROPOLOGY

1. ETHNOLOGY (recommended for Teaching Candidates)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2060. Intro. to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>(If used as credit toward completion of Liberal Studies Area A (Social Sciences), then GEOG 2020, Intro. to Cultural Geography, must be taken in addition.)</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 3650. History of Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Ethnography and/or Ethnoology</td>
<td>14</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>20</td>
</tr>
</tbody>
</table>

2. ARCHAEOLOGY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2090. Intro. to Prehistoric Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>*ANTH 3650. History of Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Prehistoric Archaeology</td>
<td>14</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>20</td>
</tr>
</tbody>
</table>

3. PHYSICAL ANTHROPOLOGY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2080. Intro. to Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3650. History of Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Physical Anthropology</td>
<td>14</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>20</td>
</tr>
</tbody>
</table>

*ANTH 2060. Introduction to Cultural Anthropology, is a prerequisite so students selecting either of the non-teaching options should take that course to fulfill their Area A requirements. See Liberal Studies in this catalog.
ANTHROPOLOGY SUB-Areas

Lower Division

ANTH 2000. Cultural Profiles: Introduction to Peoples of the World, 3 units
ANTH 2060. Intro. to Cultural Anthropology, 3 units
ANTH 2080. Intro. to Physical Anthropology, 3 units
ANTH 2090. Intro. to Prehistoric Archaeology, 3 units
ANTH 2950. Selected Topics in Anthropology, 1-5 units

Upper Division

GENERAL ANTHROPOLOGY (applicable to all areas below)

ANTH 3650. History of Anthropology, 3 units
ANTH 4000. Current Trends in Anthropology, 2 units

ETHNOGRAPHY

ANTH 3050. Cultures of the Middle East, 3 units
ANTH 3060. Australia and Oceania, 3 units
ANTH 3070. Sub-Saharan Africa, 3 units
ANTH 3100. East and South Asia, 3 units
ANTH 3110. Peoples of the Soviet Union, 3 units
ANTH 3350. The North American Indian, 3 units
ANTH 3360. Indians of California and Western North America, 3 units
ANTH 3370. Native Peoples of Mexico, 3 units
ANTH 3380. Native Peoples of Central and South America, 3 units

ETHNOLOGY

ANTH 3800. Intro. to Linguistics, 4 units
ANTH 4010. Culture and Personality, 3 units
ANTH 4050. Ethnographic Research Methods, 4 units
ANTH 4060. Anthropological Linguistics, 4 units
ANTH 4100. Studies in Social Anthropology, 2-4 units
ANTH 4200. Applied Anthropology and Social Change, 4 units
ANTH 4210. Cultural Dynamics, 3 units
ANTH 4220. Folk Literature and Arts in Anthropological Perspective, 4 units

ADVANCED PREHISTORIC ARCHAEOLOGY

ANTH 3520. Method and Theory in Archaeology, 3 units
ANTH 3560. Old World Archaeology, 3 units
ANTH 3570. North American Archaeology, 3 units
ANTH 3580. Origins of Old World Civilization, 3 units
ANTH 3590. Mesoamerican and South American Archaeology, 3 units
ANTH 4600. Archaeological Field Methods, 4 units
Anthropology

ANTH 4610. Seminar in Advanced Archaeology, 3 units
ANTH 4620. Science in Archaeology, 3 units
ANTH 4630. Archaeological Expedition Proseminar, 1-3 units
ANTH 4940. Archaeological Expedition, 4-8 units

ADVANCED PHYSICAL ANTHROPOLOGY

ANTH 3750. Human Evolution, 3 units
ANTH 3760. Primate Evolution and Anatomy, 3 units
ANTH 3780. Primate Social Behavior, 3 units
ANTH 4750. Advanced Human Evolution, 4 units
ANTH 4760. Advanced Primate Evolution and Anatomy, 4 units
ANTH 4780. Advanced Primate Social Behavior, 4 units

SPECIAL STUDIES

ANTH 4950. Selected Topics in Anthropology, 1-5 units
ANTH 4960. Senior Seminar, 1-4 units
ANTH 4980. Individual Study, 1-4 units
ANTH 5980. Individual Study, 1-4 units

COURSE DESCRIPTIONS

Lower Division

ANTH 2000. Cultural Profiles: An Introduction to Peoples of the World (3)

Introduction to representative cultures throughout the world. A descriptive course designed primarily for non-majors interested in other peoples and their cultures. Prerequisite: None.

ANTH 2060. Introduction to Cultural Anthropology (3)

Meaning of culture, its diversity and degrees of elaboration among different peoples, organization, and functioning of cultures. (Formerly 201)

ANTH 2080. Introduction to Physical Anthropology (3)

Survey of human biology and physical anthropology; vertebrate evolution, primate evolution and behavior, human evolution and race.

ANTH 2090. Introduction to Prehistoric Archaeology (3)

Introduction to prehistory and culture growth; the basic theories, methods and goals of archaeology; cultural and historical reconstructions based on interpretation of data recovered from worldwide archaeological contexts.
ANTH 2950. Selected Topics in Anthropology (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of anthropology. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

ANTH 2970. Selected Topics offered during Winter Term (4)

Upper Division

ANTH 3050. Cultures of the Middle East (3)

Investigates the historical and cultural background of the various contemporary societies of North Africa and Southwest Asia. Attention is given to the varied effects of Western culture on the indigenous populations of the Middle East. Prerequisite: ANTH 2060 or equivalent.

ANTH 3060. Australia and Oceania (3)

Study of the settlement of Australia and the islands of the Pacific Ocean in prehistoric times and survey of the living indigenous cultural groups of the area. Prerequisite: ANTH 2060 or equivalent.

ANTH 3070. Sub-Saharan Africa (3)

Introduction to African cultures, combining a brief survey of the peoples of the subcontinent and a special focus on representative societies. Prerequisite: ANTH 2060 or equivalent.

ANTH 3100. East and South Asia (3)

Investigates the cultural development of China, Japan, India, and the major offshore islands. Also considers the lifeways of various primitive and advanced cultures of this region today. Prerequisite: ANTH 2060 or equivalent.

ANTH 3110. Peoples of the Soviet Union (3)

Examines the development of the European Russians into a nation, the rise of pastoral nomads of the steppes and their impact on Europe, and presents a selected sample of cultures of indigenous peoples of the Siberian taiga, tundra and steppes; Russia, Turkestan, and the Caucasus. (Formerly 305) Prerequisite: ANTH 2060 or equivalent.

ANTH 3350. The North American Indian (3)

A general survey course designed to acquaint students with the prehistoric and historic cultures of the Indians of North
Anthropology

America. The course consists of investigations of various theories of the origin of the American Indian and the application of the culture-area concept to an understanding of the various cultures. (Formerly 330) Prerequisite: ANTH 2060 or equivalent.

ANTH 3360. Indians of California and Western North America (3)

Special emphasis is given to the study of the Indians of California and adjacent areas with special reference to their historical and cultural backgrounds. (Formerly 331) Prerequisite: ANTH 2060 or equivalent.

ANTH 3370. Native Peoples of Mexico (3)

A general survey course designed to acquaint students with the prehistoric and historic cultures of the Indians of Mexico and adjacent areas of Mesoamerica. The course consists of investigations of various theories of the origin of Middle American Indians and the application of the culture-area concept to an understanding of the various cultures. Prerequisite: ANTH 2060 or equivalent.

ANTH 3380. Native Peoples of Central and South America (3)

A general survey course designed to acquaint students with the prehistoric and historic cultures of the Indians of Central and South America. The course consists of investigations of various theories of the origin of Central and South American Indians and the application of the culture-area concept to an understanding of the various cultures. Prerequisite: ANTH 2060 or equivalent.

ANTH 3520. Method and Theory in Archaeology (3)

Study of current methods in archaeology, emphasis on applied and theoretical procedures in data sampling, collection, and evaluation; survey of method and theory in excavation of archaeological sites; integration, analysis, and interpretation of archaeological phenomena. (Formerly 325) Prerequisite: ANTH 2090 or equivalent, or consent of instructor.

ANTH 3560. Old World Archaeology (3)

Survey of major developments in Old World prehistory from the dawn of man to the beginnings of the Classical cultures. Emphasis on the archaeology of early man in Africa, the Paleolithic cultures of Europe, the Neolithic of the Near East viewed against the changing ecology of the Old World (Formerly 326) Prerequisite: ANTH 2090 or equivalent, or consent of instructor.

ANTH 3570. North American Archaeology (3)

Survey of the prehistory of the American Indian from the arrival of man in the New World to the Historic Period. Study of
Anthropology

the archaeological sites, cultures, and culture areas in the New World north of Mexico. Emphasis on the relation of man and environment in prehistoric North America. Areas considered include the Great Basin and the Arctic. (Formerly 327) Prerequisite: ANTH 2090 or equivalent, or consent of instructor.

ANTH 3580. Origins of Old World Civilizations (3)

An archaeological survey course designed to acquaint the student with the evolution of complex culture or civilization in the Old World. Prerequisite: ANTH 2060 or 2090 or equivalent, or consent of instructor.

ANTH 3590. Mesoamerican and South American Archaeology (3)

A general survey course designed to acquaint the student with the development of prehistoric cultures in the New World Mesoamerican and Andean areas. (Formerly 329) Prerequisite: ANTH 2090 or equivalent, or consent of instructor.

ANTH 3650. History of Anthropology (3)

Study of the history of the development of anthropological methods and theories. A required course for all majors, minors, and social science majors with an emphasis in anthropology. Prerequisite: ANTH 2060; ANTH 2080 and 2090 desirable. (Given Fall semester only.)

ANTH 3750. Human Evolution (3)

Survey of the evolutionary processes in the development of man; origin and phylogeny of hominids; study of fossil man and the extinct primates; fossil evidence for human evolution. (Formerly 345) Prerequisite: ANTH 2080 or equivalent. Recommended: ZOOL 1050.

ANTH 3760. Primate Evolution and Anatomy (3)

Evolutionary history of the primates with special emphasis on their anatomy and its importance to the study of primate behavior and evolution. (Formerly 346) Prerequisite: ANTH 2080 or equivalent. Recommended: ZOOL 1050.

ANTH 3780. Primate Social Behavior (3)

Survey of living nonhuman primate groups and their classification; geographical distribution, feeding habits, reproduction, and social behavior of these primates; the implications of nonhuman primate behavior for the understanding of human behavior. Prerequisite: ANTH 2080 or equivalent. Recommended: ZOOL 1050.

113
ANTH 3800. Introduction to Linguistics (4)

An introduction to the scientific study of language. Topics covered include dialect study, language acquisition, comparative linguistics, and modern theories of language. (Same as ENGL 3800)

ANTH 4000. Current Trends in Anthropology (2)

A symposium on anthropology featuring speakers on their special areas of research, including current anthropological theories. Prerequisite: Consent of instructor.

ANTH 4010. Culture and Personality (3)

Individual and modal personalities in relation to cultural background. Socialization in nonliterate and other non-European societies. National character studies, basic personality structure, acculturation, and cross-cultural studies of abnormality. (Formerly 332) Prerequisite: One course in Ethnography or Ethnology.

ANTH 4050. Ethnographic Research Methods (4)

An introduction to techniques employed by anthropologists in performing primary and secondary research. Both basic statistical and non-statistical methods of handling data are presented. The course is not a field study course. Prerequisites: One course in Ethnography or Ethnology and consent of instructor.

ANTH 4060. Anthropological Linguistics (4)

A survey of major topics in the fields of linguistics and language and culture. Both descriptive and historical approaches to language study are considered. Prerequisite: One course in Ethnography or Ethnology.

ANTH 4100. Studies in Social Anthropology (1-4)

Studies in various aspects of Social Anthropology. Course content may vary from term to term. Typical courses include: Religion in Anthropological Perspective; Kinship Structures and Family Organizations; Economic Anthropology; Traditional Political Systems in Contemporary Societies. Different titles may be taken for credit under this course number. Prerequisite: Consent of instructor.

ANTH 4200. Applied Anthropology and Social Change (4)

Study of changes resulting from contact between small-scale societies. Consideration will be given to processes of social change and organized attempts to introduce change. Prerequisite: ANTH 2060 or equivalent, or consent of instructor.
ANTH 4210. Cultural Dynamics (3)

Cultural stability and dynamics; with reference to geographical base, innovation, invention, and technology. Prerequisite: One course of Ethnography or Ethnology.

ANTH 4220. Folk Literature and Arts in Anthropological Perspective (4)

Survey of folk literature and traditional arts of small scale and peasant cultures from an anthropological perspective. Prerequisite: ANTH 2060 or equivalent, or consent of instructor.

ANTH 4600. Archaeological Field Methods (4)

Techniques of site survey, sampling, and excavation with special emphasis on application of systematic field procedures, problem design, excavation, and recording of archaeological evidence under controlled field conditions in the Central Valley. (Formerly 432) Prerequisite: ANTH 2090 or equivalent, or consent of instructor. (Course may be repeated for a maximum of 8 units.)

ANTH 4610. Seminar in Advanced Archaeology (3)

Advanced studies in archaeology, including planning and direction of archaeological excavations and research projects, procedures in site and survey reporting, simulation in funding and logistics in archaeological field work, advanced synthesization and analysis of archaeological data. Recommended for advanced students in archaeology. Prerequisite: ANTH 3520 or consent of instructor.

ANTH 4620. Science in Archaeology (3)

Survey of applications in archaeology of techniques and theories derived from the natural and physical sciences. Study of dating and analytical techniques, laboratory investigations of faunal, floral, and inorganic materials derived from archaeological sites. Prerequisite: ANTH 3520 or consent of instructor.

ANTH 4630. Archaeological Expedition Proseminar (1-3)

Preparation for the Winter Term or Spring-Summer Session archaeological expedition projects. The proseminar meets once each week during fall or spring semester, and is prerequisite for participation in the Winter Term archaeological expedition. Subject matter includes lectures and assigned readings designed to acquaint the student with the culture, ecology, and relevant topics pertaining to the area to be investigated during the Winter Term or Summer Sessions. Prerequisite: Consent of instructor.
ANTH 4750. Advanced Human Evolution (4)

Study of human anatomy and its application to the understanding of human evolution; detailed studies of the fossil evidence for human evolution. Prerequisite: ANTH 3750 may be taken concurrently. Recommended: ZOOL 1050.

ANTH 4760. Advanced Primate Evolution and Anatomy (4)

Study of primate anatomy and its application to an understanding of primate evolution; detailed studies of the fossil evidence for primate evolution. Prerequisite: ANTH 3760 may be taken concurrently. Recommended: ZOOL 1050.

ANTH 4780. Advanced Primate Behavior (4)

Advanced studies in primate behavior. Includes actual research at local zoos on primates in such areas as aggression, dominance, mother-infant behavior, reproduction, communication, etc. Prerequisite: ANTH 3780, or other course in animal behavior.

ANTH 4940. Archaeological Expedition (4-8)

Practical experience in archaeological procedures under actual field conditions. The course may include study of known archaeological sites, survey of archaeologically unexplored areas, or excavation of specific sites. Instruction includes research design and methods of implementation, reconnaissance, mapping, recording, testing, and excavation of archaeological data. Related studies include field photography, instrument survey, faunal identification, microanalysis, and expedition logistics. Individual initiative is encouraged. (Formerly 433) Prerequisites: Consent of instructor and ANTH 2090 or ANTH 3520.

ANTH 4950. Selected Topics in Anthropology (Topics to be specified in Class Schedule) (1-5)

Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

ANTH 4960. Senior Seminar (1-4)

Seminar for seniors in anthropology. Review and discussion of selected topics in anthropology. Each student is expected to report on an individual project. (Formerly 491) Prerequisite: Consent of instructor.

ANTH 4970. Selected Topics offered during Winter Term (4)
ANTH 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

ANTH 5980. Individual Study (1-4)

For students capable of independent study in one of the fields of anthropology. May be repeated for a total of 6 units; topics and supervising instructor may vary. Prerequisite: Available only for postbaccalaureate credit.
Art

Martin L. Camarata, M.A., Professor, Chairman
Ralf Parton, M.A., Professor
James Piskoti, M.F.A., Associate Professor
John R. Ploeger, M.F.A., Visiting Lecturer in Art

The Department of Art offers the degree, Bachelor of Arts, Art. The program is designed to provide the student with a rich, well balanced studio and art history program. The art courses and their structural sequence provide the student with mastery of significant skills, exploration of media, imagination, and the individual development of artistic performance. Excellent studio facilities play a major role in stimulating a positive approach to creativity.

The Department of Art also offers a one-year postbaccalaureate program leading to a Certificate in Printmaking. This program, Workshop in Printmaking, is available to qualified graduate students.

The art curriculum prepares students for additional academic preparation such as graduate school, and teachers credential programs.

The Foundation Program along with selected upper division courses is suited for general students interested in Liberal Arts and enriching their cultural and intellectual awareness of the creative process.

REQUIREMENTS FOR BACHELOR OF ARTS, ART

Art majors are to:

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete the Foundation Program in Art.
3. Complete the major of not less than 30 upper division units.
4. Completion of a minor is not required.

GENERAL REQUIREMENTS FOR ART MAJOR

1. Students entering the college at the upper division level will be evaluated, through portfolio, prior to placement in courses.
2. All art majors are required, during their senior year, to submit a representative portfolio of their art work to the faculty which will judge the work, on a qualitative basis, for evidence of personal, conceptual, and aesthetic concerns. Participation in an exhibition of works chosen from the portfolio is a requirement for graduation as a major in art. The Department of Art reserves the right to retain any student art work and/or slides of work for its permanent collection.
DEGREE MAJOR IN ART

Prerequisites to the Major - Foundation Program

Beginning majors must take all foundation studio courses in sequence.  

<table>
<thead>
<tr>
<th>Course</th>
<th>Art History Survey I</th>
<th>3 units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1010</td>
<td>Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 1020</td>
<td>Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 1100</td>
<td>Design</td>
<td>3</td>
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<tr>
<td>Art 1200</td>
<td>Design</td>
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<tr>
<td>ART 2100</td>
<td>Art History Survey I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2110</td>
<td>Art History Survey II</td>
<td>3</td>
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Total: 18

The Major

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<tr>
<th>Course</th>
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<th>3 units</th>
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</thead>
<tbody>
<tr>
<td>ART 3010</td>
<td>Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 3200</td>
<td>Problems in Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 3300</td>
<td>Sculpture, Ideas and the Figure</td>
<td>3</td>
</tr>
<tr>
<td>ART 3410</td>
<td>Contemporary Art</td>
<td>3</td>
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</tbody>
</table>

Major must also choose one course from the following area:

<table>
<thead>
<tr>
<th>Course</th>
<th>Printmaking I</th>
<th>3 units</th>
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</thead>
<tbody>
<tr>
<td>ART 3100</td>
<td>Printmaking I</td>
<td>3 units</td>
</tr>
<tr>
<td>ART 3110</td>
<td>Printmaking II</td>
<td>3 units</td>
</tr>
</tbody>
</table>

Total: 15

To complete major requirements, a student must fulfill a total of 15 additional upper division units in studio courses as developed in consultation with major advisers.  

Total: 48

DEGREE MINOR IN ART

Twenty-seven units as listed below:

**Lower Division** (required)

<table>
<thead>
<tr>
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<td>Design</td>
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</tr>
<tr>
<td>Art 1200</td>
<td>Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 2100</td>
<td>Art History Survey I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2110</td>
<td>Art History Survey II</td>
<td>3</td>
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</tbody>
</table>

**Upper Division**

All art minors must choose one course from each of the following areas:
Printmaking:
ART 3100. Printmaking I, 3 units
ART 3110. Printmaking II, 3 units
ART 3120. Lithography, 3 units
ART 3130. Serigraphy, 4 units
ART 3140. Photo-Mechanical Techniques for Printmaking, 3 units

Painting:
ART 3200. Problems in Painting I, 3 units
ART 3210. Problems in Painting II, 3 units
ART 3220. Problems in Painting III, 3 units

Sculpture:
ART 3300. Sculpture I, 3 units
ART 3310. Sculpture II, 3 units
ART 3320. Sculpture III, 3 units
ART 3340. Ceramics, 3 units

PRINTMAKING CERTIFICATE PROGRAM

Admission Requirements:

1. B.A. degree with a major in art.
2. Minimum of two courses in printmaking at the undergraduate level.
3. Portfolio evaluation by faculty in the printmaking area.
4. Interest in the field and seriousness of endeavor.

Print courses for the program may be selected from department course offerings in consultation with the adviser.

Requirements for the Certificate:

1. Complete minimum of 14 units of studio electives in printmaking.
2. Submit a portfolio of prints to a faculty committee who shall evaluate the work.
3. Participate in a group print exhibition or a one-man exhibition of prints on campus or a place acceptable to both the student and faculty.

DEGREE MINOR IN MODERN ART HISTORY

Eighteen units, to include at least 8 units in upper division.

Lower Division

ART 2100. Art History Survey I, 3 units
ART 2110. Art History Survey II, 3 units
Electives in Art History as approved by the minor adviser.
Upper Division

ART 3400. Modern Art 1900-1945, 3 units
ART 3410. Contemporary Art, 3 units
ART 4420. Early Modern Art, 3 units
ART 4430. 20th Century American Art, 3 units
Electives in Art History as approved by the minor adviser.

TEACHING CREDENTIALS

Art majors interested in multiple subject or single subject credentials are referred to the Education section of the catalog for a description of teaching credential programs.

LIBERAL STUDIES CONCENTRATION IN ART

Lower Division

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ART 1010. Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1020. Drawing II</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division

Select 15 elective upper division units 15
Total 21

The Department of Art will waive upper division prerequisites for the Liberal Studies degree student.

COURSE DESCRIPTIONS

Lower Division

ART 1000. Introduction to Drawing (3)

Emphasis on introduction to drawing media and process as visual language for the general student. Prerequisite: None.

ART 1010. Drawing I (3)

Descriptive drawing by developing eye and hand control. Variety of media and techniques. (Formerly 100) Prerequisite: Art major/minor or consent of instructor.

ART 1020. Drawing II (3)

Continued exploration of drawing. Emphasis on spatial concepts and expressive content using a variety of media and techniques. Prerequisite: ART 1010, or consent of instructor.

*ART 1010 cannot apply toward the concentration if used to satisfy Liberal Studies Area C requirements.
ART 1100. Design I (3)

Studio exploration of plastic elements as a basis for building a theoretical and practical vocabulary for two-dimensional design and composition in color. (Formerly 120) Prerequisite: Art major/minor or consent of instructor.

ART 1200. Design II (3)

A course designed to encourage students to see, design, and build sculpture by combining basic architectural and geometric concepts with an individual imagination. Assignments will be given in a variety of materials with criticism on each project. (Formerly 130) Prerequisite: Art major or consent of instructor.

ART 2100. Art History Survey I (3)

Survey of the major visual arts from prehistoric times to High Renaissance. Prerequisite: None.

ART 2110. Art History Survey II (3)

Survey of the major visual arts from the baroque era to major movements of the 20th century. Prerequisite: None.

ART 2950. Selected Topics in Art (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in art. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

ART 2970. Selected Topics offered during Winter Term (4)

Upper Division

ART 3010. Drawing III (3)

Emphasis on figure as compositional element. May be repeated for a total of 6 units. Prerequisites: ART 1010, 1020, 1100, 1200; or consent of instructor.

ART 3020. Drawing IV (3)

Development of expression, techniques, and media. Emphasis on independent student production. May be repeated for a total of 6 units. Prerequisites: ART 1010, 1020, 5010; or consent of instructor.

ART 3100. Printmaking I (3)

Fundamental theories and practices involved in the processes of relief printmaking. Emphasis on materials, techniques, tools, 122
and craftsmanship. May be repeated for a total of 6 units. 
(Formerly 210) Prerequisites: ART 1010, 1020, 1100, 1200; or 
consent of instructor.

AFT 3110. Printmaking II (3)

Techniques of intaglio printmaking. Exploration of hard and 
soft grounds, engraving, aquatint, collograph, color intaglio 
methods, and photo mechanical processes. Emphasis on techniques 
and their relation to the graphic image. (Formerly 311, Intaglio 
Printmaking) May be repeated for a total of 6 units. Prerequi-
sites: ART 1010, 1020, 1100, 1200; or consent of instructor.

ART 3120. Lithography (3)

Development of graphic images based on lithographic techniques 
and processes. Emphasis on the unique qualities of the litho-
graphic print. May be repeated for advanced work. Prerequisites: 
ART 1010, 1020, 1100, 1200; or consent of instructor.

ART 3130. Serigraphy (4)

Fundamental theories and practices involved in silk-screen 
printing. Exploration of silk-screen processes using paper stencil, 
tusche, and glue block-out, stencil film, and photo-mechanical 
techniques. May be repeated for a total of 8 units. Prerequisites: 
ART 1010, 1020, 1100, 1200; or consent of instructor.

ART 3140. Photo-Mechanical Techniques for Printmaking (3)

Fundamental theories and practices involved in photo-mechanical 
applications to etching, lithography, and silk-screen. May be 
repeated for a total of 6 units. Prerequisites: ART 1010, 1020, 
1100, 1200, 3110, 3120, 3130; or consent of instructor.

ART 3200. Problems in Painting I (3)

Form and content in painting. Painting structure and composi-
tion. Basic media, techniques, and concepts. May be repeated for 
a total of 6 units. (Formerly 220) Prerequisites: ART 1010, 
1020, 1100, 1200; or consent of instructor.

ART 3210. Problems in Painting II (3)

Assignments will be given emphasizing the relation of craft 
to material and content to format. Continued development of 
spatial concepts, form, and color. May be repeated for a total 
of 6 units. Prerequisites: ART 1010, 1020, 1200, 3200; or 
consent of instructor.
ART 3220. Problems in Painting III (3)

Assignments with the goal of technical development of media. Emphasis on individual solutions of painting problems and development of critical sense. May be repeated for a total of 6 units. (Formerly 323) Prerequisites: ART 3200, 3210; or consent of instructor.

ART 3270. Watercolor (3)

Painting problems using watercolor medium. Control of technique with an emphasis on individual development and expression. May be repeated for a total of 6 units. Prerequisites: ART 1010, 1020, 3200; or consent of instructor.

ART 3300. Sculpture I, Ideas and the Figure (3)

Assignments are geared to the imaginative use of the figure through clay, plaster, and wax. The purpose is to engage students in a fresh analysis of the figure as a spatial yet personal statement. May be repeated for a total of 6 units. (Formerly 230) Prerequisite: ART 1200, or consent of instructor.

ART 3310. Sculpture II, Object as Sculpture (3)

A series of assignments will be given in order to make the student consider the relationship of idea of structure. Welding, bronze, and aluminum casting will be the means. Critiques on assignments will be given. May be repeated for a total of 6 units. Prerequisites: ART 1200, 3300; or consent of instructor.

ART 3320. Sculpture III, Ideas and Sculpture (3)

Assimilating and expanding sculptural ideas toward developing an individual personality in sculpture. Plastic fabrication, vacuum-forming, and fiberglass techniques will be used as projects. Extended criticism will be given on all work. May be repeated for a total of 6 units. Prerequisites: ART 1200, 3300; or consent of instructor.

ART 3400. Modern Art 1900-1945 (3)

An analysis and interpretation of the major artistic movements from 1900-1945. Emphasis will be placed on the changing aesthetic and artistic expressions of this period. (Formerly 348) Prerequisite: None.

ART 3410. Contemporary Art (3)

Analysis of development of style trends in the visual arts from 1945 to the present. Prerequisite: None.
ART 3420. Art Appreciation and Criticism for the Non-Art Major (3)

Study of the varieties of artistic expression through different media and techniques; varying concepts of what art is; the changing role of art in society and the role of the artist; various considerations facing artists in the past and present through criticism of their works. Prerequisite: None.

ART 4020. Advanced Drawing (3)

Advanced problems and techniques in drawing. Emphasis placed on a professional attitude within a seminar framework. May be repeated for credit. (Formerly 405) Prerequisites: ART 1010, 1020, 1100, 1200, 3010, 3020; or consent of instructor.

ART 4100. Advanced Printmaking (3)

Advanced projects in printmaking with emphasis on the development of personal imagery and the mastery of technique. Individual projects via consultation with instructor. May be repeated for credit. (Formerly 415) Prerequisites: 2 printmaking courses from ART 3100, or 3210, or 3210; or consent of instructor.

ART 4200. Advanced Painting (3)

Advanced problems and techniques in painting. Emphasis on personal concepts, individual development, and a professional attitude within a seminar framework. May be repeated for credit. (Formerly 425) Prerequisites: ART 3200, 3210; or consent of instructor.

ART 4300. Advanced Sculpture (3)

Advanced assignments and critical analysis emphasizing independent production and a sound creative identity. Emphasis will be placed on a professional attitude within a seminar teamwork. May be repeated for credit. (Formerly 435) Prerequisite: Any 2 upper division sculpture courses, or consent of instructor.

ART 4420. Early Modern Art (3)

A study of the major trends and artists from Neo-Classicism through Impressionism. An investigation into the relationship of these artists and movements to the cultural and intellectual milieu. Prerequisite: None.

ART 4430. 20th Century American Art (3)

A study of American art from Eakins to the present, concentrating on painting and sculpture; tracing the art of this century in relation to European currents and the native experience. Prerequisite: None.
ART 4510. Gallery Management (1)

Preparation for gallery managementship. May be repeated for credit. Prerequisite: Consent of instructor.

ART 4950. Selected Topics in Art (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in art. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

ART 4960. Senior Seminar (2)

Study of the nature and problems confronting the contemporary American artist. Prerequisite: Senior standing in the major.

ART 4970. Selected Topics offered during Winter Term (4)

ART 4980. Individual Study (1-4)

For the student capable of independent specialized work in studio and/or history and criticism. Students would normally be senior art majors with one year of study in the department. A written outline of the proposed independent study must be submitted and approved by the instructor under whom the student wishes to work. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

ART 5980. Individual Study (1-4)

For postbaccalaureate students with a degree major in art capable of independent specialized work in studio and/or history and criticism. A written outline of the proposed independent study must be submitted and approved by the instructor under whom the student wishes to work. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.
LIBERAL STUDIES

Bilingual/Cross-Cultural Emphasis & Concentration

Roy Y. Yasui, Ph.D., Professor of Education, Coordinator

The College has recently developed a Liberal Studies degree program containing a Bilingual/Cross-Cultural emphasis and concentration. In addition to providing the academic prerequisite for students who are planning to pursue credentials to teach in elementary schools, the program is designed to give graduates the language skills and cultural background to teach in settings having limited and non-English speaking students.

I. Requirements for B.A. degree in Liberal Studies with a Bilingual/Cross-Cultural Emphasis & Concentration

1. Basic Liberal Studies Area Requirement Units
   a. Social Sciences .................................. 18
   b. Mathematics-Science .............................. 18
   c. Arts-Humanities .................................. 18
   d. English-Speech .................................. 18

2. Area of Concentration .................................. 20

3. Six (6) additional units from disciplines of Areas A, B, C, and D excluding the area of Concentration . . . 6

4. Upper division electives--may be professional courses to obtain preliminary teaching credential . . . . 25

5. Physical Education .................................. 1

   Total ........................................... 124

II. Basic Liberal Studies Area Requirement (detailed)

Area A. Social Science (18 semester units)

1. PSCI 1200. American Government .................... 3

2. History: one of the following: ..................... 3
   HIST 2600. Problems in U.S. History, 3 units
   HIST 3610. Colonial America, 3 units
   HIST 3620. Ante-Bellum America, 3 units
   HIST 3630. America After Civil War, 3 units
   HIST 3640. Contemporary America, 3 units

3. PSYC 2010. Introduction to Psychology ................ 3
Bilingual/Cross-Cultural

4. Anthropology or Geography: One of the following: 3
   ANTH 2000. Cultural Profiles: An Introduction to Peoples of the World, 3 units
   ANTH 2060. Introduction to Cultural Anthropology, 3 units
   GEOG 2000. Interaction: Man & the Earth, 3 units
   GEOG 2400. World Regional Geography I, 3 units
   GEOG 2410. World Regional Geography II, 3 units

5. Selected electives related to credential emphasis by advisement: 6
   a. One course from the following:
      ETHS 2000. Contemporary Black Studies, 3 units
      ETHS 2100. Contemporary Chicano Studies, 3 units
      ETHS 2200. Contemporary Asian-American Studies, 3 units
      ETHS 2300. Contemporary Native-American Studies, 3 units
   b. One course from the following:
      ANTH 3350. The North American Indian, 3 units
      ANTH 3360. Indians of California and Western North America, 3 units
      ANTH 3370. Native Peoples of Mexico, 3 units
      HIST 3510. Latin America in Colonial Times, 3 units
      HIST 3520. Latin American States Since Independence, 3 units
      HIST 3710. Mexican-American History, 3 units
      HIST 3730. Afro-American History, 3 units
      HIST 3800. East Asia in Traditional Times, 3 units
      HIST 3810. East Asia in the Modern World, 3 units
      HIST 3890. The Oriental Mind, 4 units
      PSCI 4320. Minority Politics, 3 units
      PSYC 3130. Human Development, 3 units
      AND PSYC 3320. Introduction to Personality, 3 units
      SOCL 3010. Race and Ethnic Relations, 3 units

Area B. Mathematics-Science (18 semester units)
   1. Core Requirement: 16
      MATH 1030, 1040. Foundations of Mathematics, 6 units
      BIOL 1010. Principles of Biology. Lecture and Lab, 4 units
      CHEM 1000. Chemistry in the Modern World, 3 units
      PHYS 1500. Energy and Matter, Lec. & Lab, 3 units
2. One course from the following: . . . . . . . . . . . . 2-3
ASTR 2100. Descriptive Astronomy, 3 units
BIOL 2650. Environmental Biology, 2 units
GEOL 2100. Principles of Geology, 3 units
PHSC 1300. Environmental Pollution, 2 units

Total . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 18-19

Area C. Arts-Humanities (18-20 semester units)
1. 3-4 units from each of the following areas: . . . . . . . . . . . . . . 12-13
   a. ART 1000. Introduction to Drawing, 3 units
      or ART 2100. Art History Survey I, 3 units
      or ART 2110. Art History Survey II, 3 units
   b. DRAM 1010. Introduction to Theatre, 3 units
      or DRAM 3020. Children's Theatre, 3 units
   c. *SPAN 1010. Elementary Spanish I, 4 units
      *SPAN 1020. Elementary Spanish II . . . . . . . . . . 4
   d. MUS 1190. Music Fundamentals, 3 units
2. *SPAN 1020. Elementary Spanish II . . . . . . . . . . . 4
3. PHIL 3000. Humanistic Inquiry . . . . . . . . . . . 3

Total . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 18-20

Area D. English-Speech (16-18 semester units)
1. Core Requirements . . . . . . . . . . . . . . . . . . . . . . . . . 12-13
   a. ENGL 1000. Freshman Composition, 3 units
   b. ENGL 1010. Introduction to Literature, 3 units
      or ENGL 1500. Perspectives in Literature, 3 units
      or ENGL 1501. Perspectives in American Literature, 3 units
   c. SPCH 2000. Speech Communication, 3 units
      or SPCH 2010. Oral Communication Processes, 4 units
   d. SPCH 3010. Language & Speech Development, 3 units

* May satisfy competency-based criteria.
Other Target Language may be substituted.
Bilingual/Cross-Cultural

2. Additional units by advisement
   a. ENGL 3800. Introduction to Linguistics, 4 units
      or SPCH 4010. Structural & Psycholinguistics, 5 units
   b. One of the following:
      *SPAN 3530. Phonology & History of the Spanish Language, 3 units
      SPCH 3000. Phonetics, 3 units
      ENGL 3830. Introduction to Bilingualism, 3 units

   Total .................................. 18

Area E. Physical Education ..................... 1

III. Bilingual/Cross-Cultural Concentration (20 semester units)

The following courses comprise the Bilingual/Cross-Cultural Concentration within the Liberal Studies major (20 semester units): Fifteen of the required 20 semester units must be upper division courses. Courses completed in the four basic areas of the Liberal Studies major cannot be applied toward the area of concentration.

Units

1. Language-Linguistics Component ............. 8-12
   a. Complete the following 6 units:
      *SPAN 3010. Advanced Spanish I, 3 units
      *SPAN 3020. Advanced Spanish II, 3 units
   b. Complete 2-6 units by advisement:
      *SPAN 3530. Phonology & History of the Spanish Language, 3 units
      SPCH 3000. Phonetics, 3 units
      ENGL 3830. Introduction to Bilingualism, 3 units

2. Cross-Cultural Component ................... 8-12

Complete 8-12 semester units from the courses below or other selected courses by advisement:

ANTE 3070. Sub-Saharan Africa, 3 units
ANTE 3100. East and South Asia, 3 units
ANTE 3350. The North American Indian, 3 units
ANTE 3360. Indians of California & Western North America, 3 units
ANTE 3370. Native Peoples of Mexico, 3 units
ANTE 3380. Native Peoples of Central and South America, 3 units

*Other Target Language may be substituted.
ETHS 4940. Field Work in Ethnic Studies, 4 units
ETHS 4950. Selected Topics in Ethnic Studies, 1-5 units
ETHS 4960. Seminar in Ethnic Studies, 3 units
ETHS 4970. Selected Topics during Winter Term, 4 units
ETHS 4980. Individual Study, 1-4 units

GEOG 3590. Geography of Asia, 4 units

HIST 3510. Latin America in Colonial Times, 3 units
HIST 3520. Latin America States Since Independence, 3 units
HIST 3710. Mexican-American History, 3 units
HIST 3730. Afro-American History, 3 units
HIST 3800. East Asia in Traditional Times, 3 units
HIST 3810. East Asia in the Modern World, 3 units
HIST 3860. Africa Before 1800, 3 units
HIST 3870. Africa, 1800-1945, 3 units
HIST 3880. Contemporary Africa, 1945 to Present, 3 units
HIST 3890. The Oriental Mind, 4 units
HIST 4500. History of Mexico, 3 units
HIST 4800. Modern China, 3 units
HIST 4840. Modern Japan, 3 units
HIST 4870. History of Religion in Africa, 3 units

PSCI 4320. Minority Politics, 3 units

SOCL 3010. Race and Ethnic Relations, 3 units

*SPAN 3930. Spanish Literature in Translation, 3 units
*SPAN 3610. History & Civilization of Spanish America, 3 units
*SPAN 4600. Literatura Mexicana, 3 units
SPAN 4950. Summer Session in Mexico, 2-4 units
*SPAN 4970. El Chicanó Literatura Y Cultura, 3 units
*SPAN 4970. Winter Term in Mexico, 4 units

IV. Six additional units from areas outside the concentration ........... 6

*Intermediate Foreign Language, or six units by advisement if language competency is satisfied.

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* Other Target Language may be substituted
The Department of Biological Sciences offers programs of study in the life sciences for students seeking either the Bachelor of Arts or the Bachelor of Science. Students may also elect to complete a concentration in Botany, Entomology, Environmental Sciences, Marine Biology, or Zoology as part of either the Bachelor of Arts or the Bachelor of Science program. Completing a concentration is optional. Students should confer with their departmental adviser to determine which degree and what program is best suited to their career objective.

Students interested in marine biology and oceanography may elect course work at the Moss Landing Marine Laboratories for partial fulfillment of their in-resident major and degree requirements. Refer to the Marine Sciences section of the catalog for description of Moss Landing course offerings.

**BACHELOR OF ARTS**

The Bachelor of Arts is designed to provide breadth and background in the natural sciences and to allow sufficient flexibility to accommodate the diverse needs of the general student. Individuals preparing for careers in such areas as agriculture, industry and elementary or secondary teaching will find that this degree is adaptable to their career objective.

**BACHELOR OF SCIENCE**

The Bachelor of Science is designed to provide the comprehensive background in the sciences required for students planning to seek additional training in graduate or professional schools. The degree includes course work that is usually required for admission to schools of medicine, dentistry, veterinary medicine, lab technology, and for admission to graduate work in the biological sciences. Students planning to seek advanced or professional degrees should consult their departmental adviser early in their undergraduate program to determine what specific courses may be required.
REQUIREMENTS FOR THE BACHELOR OF ARTS, BIOLOGICAL SCIENCES

Biological sciences majors are to:

1. Complete the college requirements for the bachelor's degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 24 upper division units, including course requirements as specified for the major. No more than 8 units of CR graded course work may apply toward the major.
4. Completion of a minor is not required.
5. Completion of a concentration is not required.

**BACHELOR OF ARTS DEGREE IN BIOLOGICAL SCIENCES**

**Prerequisites to the Major:**

Required courses in the major field:

- BOTY 1050. Introduction to Botany, 4 units
- ZOOL 1050. Introduction to Zoology, 4 units

Required courses in supporting fields:

- CHEM 1100, 1110. Principles of Chemistry I, II, 10 units
- CHEM 3010, 3030. Organic Chemistry, 4 units
- Elective courses in Chemistry, Mathematics, Physics or Physical Sciences, 6 units

**THE MAJOR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 3310. Cellular &amp; Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3320. General Genetics</td>
<td>3</td>
</tr>
<tr>
<td>Courses in Animal and Plant Sciences</td>
<td>8</td>
</tr>
<tr>
<td>a. One course must be elected from Entomology or Zoology.</td>
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</tr>
<tr>
<td>b. One course must be elected from Botany or Microbiology.</td>
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</tr>
<tr>
<td>c. One of the above courses must deal with the diversity of organisms. Acceptable courses are indicated by an asterisk in the course description section of the catalog.</td>
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<tr>
<td>Course in Ecology</td>
<td>4</td>
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<tr>
<td>To be elected from the following: BIOL 3630, BIOL 3650, BIOL 4630</td>
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<tr>
<td>Course in Physiology</td>
<td>4</td>
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<tr>
<td>To be elected from the following: BIOL 4220, BOTY 4200, ENTO 4220, ZOOL 4230</td>
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</tr>
<tr>
<td>*Electives in the Biological Sciences</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>32</td>
</tr>
</tbody>
</table>

*A maximum of 8 units may be satisfied by courses at lower division level with the approval of the major adviser.
REQUIREMENTS FOR THE BACHELOR OF SCIENCE, BIOLOGICAL SCIENCES

Biological sciences majors are to:

1. Complete the college requirements for the bachelor's degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 28 upper division units, including course requirements as specified for the major. No more than 8 units of CR graded course work may apply toward the major.
4. Completion of a minor is not required.
5. Completion of a concentration is not required.

BACHELOR OF SCIENCE DEGREE IN BIOLOGICAL SCIENCES

Prerequisites to the Major:

Required courses in the major field:

BOTY 1050. Introduction to Botany, 4 units
ZOOL 1050. Introduction to Zoology, 4 units

Required courses in supporting fields:

CHEM 1100, 1110. Principles of Chemistry I, II, 10 units
CHEM 3010, 3030. Organic Chemistry, 4 units
Mathematics (statistics or calculus), 3-4 units
*Physics (one-year sequence), 8 units
Elective course in Chemistry, Mathematics, Physics, or Physical Sciences (determined by professional goals of student), 3-4 units

The Major

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<td>To be elected from the following:</td>
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<tr>
<td>BIOL 3630, BIOL 3650, BIOL 4630</td>
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</tbody>
</table>

*A year sequence comparable to PHYS 1100, 1110 or PHYS 2250, 2260, 2350, 2360.

135
**Biological Sciences**

**Upper Division**

Courses as approved by minor adviser, 12 units

**LIBERAL STUDIES CONCENTRATION IN BIOLOGY**

**Lower Division**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>*BOTY 1050</td>
<td>Introduction to Botany, 4 units</td>
<td>4</td>
</tr>
<tr>
<td>or *ZOOL 1050</td>
<td>Introduction to Zoology</td>
<td></td>
</tr>
<tr>
<td>BIOL 2310</td>
<td>Human Genetics</td>
<td>2</td>
</tr>
</tbody>
</table>

**Upper Division**

1. One course dealing with the diversity of biological organisms  4
   (To be selected from either Botany, Entomology, Microbiology, or Zoology. Acceptable courses are indicated by an asterisk in the course description section of the catalog.)

2. Biological sciences electives  11
   (Students are encouraged to select courses dealing with the physiological & ecological aspects of biology.)

Total  21

**COURSE DESCRIPTIONS**

**BIOLOGY**

**Lower Division**

**BIOL 1010. Principles of Biology (4)**

Introduction to basic biological phenomena common to all living organisms. Cellular and molecular levels of organization, genetics, and the mechanisms of heredity in organic evolution, environmental associations, structure as it relates to function, and reproduction from the molecular to gross structural levels. (Formerly 101, 103) (Lecture, 3 hours; laboratory, 3 hours).

Prerequisite: None.

**BIOL 2310. Human Genetics (2)**

Basic principles of heredity and evolution particularly as they apply to man. Not applicable for credit in biological science major. (Lecture, 2 hours) Prerequisite: None.

*Either BOTY 1050 or ZOOL 1050 will satisfy the BIOL 1010 requirement in the Liberal Studies program.*
BIOL 2650. Environmental Biology (2)

Basic ecological concepts as they apply to present day resource management and human environmental problems, including wildlife, forest, soil, water, air, and mineral resources. Ecological aspects of air and water pollution, human population growth, pesticide use, and energy consumption. (Lecture, 2 hours; field trips) (Formerly 263) Prerequisite: None.

BIOL 2950. Selected Topics in Biology (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of biology. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

BIOL 2970. Selected Topics offered during Winter Term (4)

Upper Division

BIOL 3310. Cellular and Molecular Biology (3)

Basic concepts of cellular phenomena dealt with at the molecular level of organization. (Lecture, 3 hours) (Formerly 351) Prerequisites: BOTY 1050, ZOOL 1050, and CHEM 1100, 1110, or equivalent.

BIOL 3320. General Genetics (3)

Mechanisms of inheritance illustrating the role of genetics in modern biology. (Lecture, 3 hours) Prerequisite: BIOL 3310 or equivalent.

BIOL 3330. Introduction to Microscopy (3)

Theoretical basis and practical uses of various types of light and electron microscopes; what kinds of microscopes yield what kinds of information; how information is recorded. (Lecture, 3 hours) (Formerly 432) Prerequisite: One year college-level biology.

BIOL 3630. Ecology (4)

Basic interrelationships of plants and animals within their physical environments. (Lecture, 3 hours; laboratory, 5 hours; field trips) Prerequisites: BOTY 1050, ZOOL 1050, and CHEM 1100, 1110, or equivalent, and statistics or calculus. (Satisfies ecology elective for the major)

BIOL 3650. Aquatic Biology (4)

The biota of fresh water with emphasis on the ecology, identification, physiology, and behavior of aquatic organisms. (Lecture,
BIOL 3810. Evolution (2)

Basic concepts of evolutionary theory including evidence and mechanisms that underlie and support the evolution of living things. (Lecture, 2 hours) Prerequisites: BOTY 1050, ZOOL 1050, or equivalent; BIOL 3320 recommended.

BIOL 4220. General and Cellular Physiology (4)

Physico-chemical properties of protoplasm, permeability, metabolism, and nuclear-cytoplasm interaction. (Lecture, 2 hours; laboratory, 6 hours) (Formerly 322) Prerequisites: Two years of college-level biology, and CHEM 3010, 3030, or equivalent. (Satisfies physiology elective for the major)

BIOL 4310. Histological and Cytological Techniques (3)

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

BIOL 4330. Electron Microscopy Laboratory (2)

Practical use of the electron microscope and practice in the supporting techniques. (Laboratory, 6 hours) Prerequisite: BIOL 3330 and/or consent of instructor.

BIOL 4630. Marine Biology (4)

Study of marine communities with emphasis on local communities. Ecology and natural history of plants and animals, and their adaptations to marine environments are stressed. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisites: BOTY 1050, ZOOL 1050 or equivalent, and one semester invertebrate zoology or BOTY 4140, and consent of instructor. (Satisfies ecology elective for the major)

BIOL 4950. Selected Topics in Biological Sciences (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of biological sciences. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

BIOL 4970. Selected Topics offered during Winter Term (4)

BIOL 4980. Individual Study (1-4)

For students capable of independent work and in need of
advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

BIOL 5980. Individual Study (1-4)

For qualified students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

BOTANY

Lower Division

BOTY 1050. Introduction to Botany (4)

Introduction to the fundamental aspects of plant biology; taxonomy, anatomy, morphology, physiology, and ecology. (Lecture, 3 hours; laboratory, 3 hours) (Formerly 105 and 106) Prerequisites: Grade of A or B in high school biology, satisfactory score on biology qualifying examination, or BIOL 1010.

BOTY 2950. Selected Topics in Botany (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of botany. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

BOTY 2970. Selected Topics offered during Winter Term (4)

Upper Division

*BOTY 3100. Survey of Lower Plants (4)

Natural history and taxonomy of the algae, fungi, lichens, mosses, and liverworts. (Lecture, 3 hours; laboratory, 3 hours; field trips) (Formerly 311) Prerequisite: BOTY 1050 or equivalent.

*BOTY 3120. Morphology of Vascular Plants (4)

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 1050 or equivalent.

BOTY 3500. Introductory Plant Pathology (4)

Nature, cause, and control of plant diseases with emphasis on economic agricultural crops. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: BOTY 1050 or equivalent.

*This course will satisfy the diversity requirement.
Biological Sciences

*BOTY 3700. Flowering Plants (4)

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) Prerequisite: BOTY 1050 or equivalent.

BOTY 4000. Plant Cytology and Tissue Development (2)

Structure and function of cell parts; growth and morphogenesis of cells and tissues. (Lecture, 2 hours) Prerequisite: BOTY 3120 or consent of instructor.

BOTY 4100. Anatomy of Seed Plants (4)

Microscopic study of structure and development of plant tissues with emphasis on tissues of seed plants. (Lecture, 3 hours; laboratory, 3 hours) Prerequisites: BOTY 3120 or consent of instructor.

BOTY 4140. Biology of the Algae (4)

Survey of the algae with emphasis on form, structure, heredity, development, and identification. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisite: BOTY 3100 or equivalent. Offered alternate years.

BOTY 4150. Biology of the Fungi (4)

Survey of the fungi with emphasis on form, structure, heredity, development, and identification. (Lecture, 3 hours; laboratory, 3 hours; field trips) (Formerly 315) Prerequisite: BOTY 3100 or equivalent. Offered alternate years.

BOTY 4200. Plant Physiology (4)

Selected topics pertaining to metabolism, nutrition, and growth of plants. (Lecture, 2 hours; laboratory, 6 hours) Prerequisites: BOTY 1050 or equivalent, and CHEM 3010, 3030, or equivalent. (Satisfies physiology elective for the major)

BOTY 4950. Selected Topics in Botany (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of botany. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

BOTY 4970. Selected Topics offered during Winter Term (4)

*This course will satisfy the diversity requirement.
ENTOMOLOGY

Upper Division

*ENTO 3000. Principles of Entomology (4)

Classification, control, life history, structure, ecology, and basic physiology of insects. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: ZOOL 1050 or equivalent.

ENTO 3330. Medical Entomology (3)

Relation of insects, arachnids, and other arthropods to the causation of pathological conditions in man and other animals or to the transmission of organisms which are responsible for such pathological conditions. (Lecture, 2 hours; laboratory, 3 hours) Prerequisite: ZOOL 1050 or equivalent.

*ENTO 3740. Insect Classification (4)

Survey of major groups of insects with classification to family level, taxonomic categories and procedures, nomenclature and literature. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: ENTO 3000 or consent of instructor.

ENTO 4220. Insect Physiology and Internal Anatomy (4)

Consideration of nutrition, digestion, excretion, circulation, respiration, detoxification processes, and the nervous and hormonal systems of insects. (Lecture, 3 hours; laboratory, 3 hours) Prerequisites: ENTO 3000 and CHEM 3010, 3030 or equivalent, or consent of instructor. (Satisfies physiology elective for the major)

ENTO 4950. Selected Topics in Entomology (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of entomology. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

ENTO 4970. Selected Topics offered during Winter Term (4)

MICROBIOLOGY

Lower Division

*MBIO 2010. Bacteriology (3)

Morphology, physiology, cultivation, and control of bacteria

*This course will satisfy the diversity requirement.
Biological Sciences

and other selected microorganisms; their role as agents of change in the natural process important to industry, agriculture, and health. (Lecture, 3 hours) Prerequisites: One year of college-level biology or equivalent and CHEM 1100 or equivalent.

MBIO 2030. Bacteriology Laboratory (2)

Laboratory experiments and demonstrations to illustrate principles and techniques of bacteriology. (Laboratory, 6 hours) Prerequisite: MBIO 2010 or concurrent enrollment.

MBIO 2970. Selected Topics offered during Winter Term (4)

Upper Division

MBIO 4950. Selected Topics in Microbiology (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of microbiology (bacteriology). Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

MBIO 4970. Selected Topics offered during Winter Term (4)

ZOOL 1050. Introduction to Zoology (4)

Introduction to basic zoological principles common to the animal kingdom. The course covers animal diversity; morphology and physiology of animal cells, tissues, and organ systems; animal reproduction and development; and principles of evolution and speciation. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisites: Grade of A or B in high school biology, satisfactory score on biology qualifying examination, or BIOL 1010.

ZOOL 2230. Physiology (3)

Principles of functional anatomy and physiology of organ systems with special reference to human physiology. (Lecture, 3 hours) (Formerly 323) Prerequisite: ZOOL 1050 or equivalent. (Does not satisfy the physiology elective for the major)

ZOOL 2240. Physiology Laboratory (1)

Laboratory experiments, exercises, and demonstrations illustrating the principles of physiology with special reference to human physiology. (Laboratory, 5 hours) (Formerly included in 323) Prerequisite: ZOOL 2230 or concurrent enrollment.
ZOOL 2250. Human Anatomy (3)

Gross morphology and anatomy of the organ systems of the human body with emphasis on functional anatomy. (Lecture, 2 hours; laboratory, 3 hours) Prerequisite: None.

ZOOL 2950. Selected Topics in Zoology (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of zoology. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

ZOOL 2970. Selected Topics offered during Winter Term (4)

Upper Division

ZOOL 3130. Vertebrate Embryology (5)

Comparative study of embryological stages of various selected vertebrate forms and developmental microanatomy of their organ systems. (Lecture, 3 hours; laboratory, 6 hours) Prerequisite: ZOOL 1050 or equivalent.

ZOOL 3150. Comparative Anatomy of Vertebrates (5)

Comparative study of microanatomy and gross morphology of organ systems in representative vertebrates. (Lecture, 3 hours; laboratory, 6 hours) (Formerly 315, 316) Prerequisite: ZOOL 1050 or equivalent.

ZOOL 3600. Introduction to Ethology (3)

A general survey of forms of animal behavior and methods of study. (Lecture, 3 hours) (Formerly ZOOL 460) Prerequisite: BOTY 1050, ZOOL 1050, or consent of instructor.

*ZOOL 3610. General Vertebrate Zoology (4)

Natural history, behavior, ecology, environmental physiology, and zoogeography of the vertebrates with emphasis on the ecological roles of vertebrates in their natural communities. Laboratory and field studies of local forms. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: One year college-level zoology.

ZOOL 4230. Animal Physiology (4)

A physiological approach to the evolution of vertebrate organ systems. (Lecture, 2 hours; laboratory, 6 hours; field trips)

*This course will satisfy the diversity requirement.
Biochemical Sciences

Prerequisites: Two years of college-level biology or equivalent, and CHEM 3010, 3030, or equivalent. (Satisfies physiology elective for the major)

ZOOL 4250. Endocrinology (2)
A comparison of animal endocrine systems at the cell, tissue, and organ level. (Lecture, 2 hours) Prerequisites: BIOL 3310 and CHEM 3010, 3030, or equivalent.

*ZOOL 4420. Invertebrate Zoology I (4)
Structure, classification, distribution, and life histories of invertebrates. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisites: BOTY 1050, ZOOL 1050, or equivalent.

*ZOOL 4430. Invertebrate Zoology II (4)
Continuation of ZOOL 4420. Structure and classification distribution, and life histories of invertebrates. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisites: BOTY 1050, ZOOL 1050, or equivalent. ZOOL 4420 recommended.

ZOOL 4440. General Parasitology (3)
Parasitism with emphasis on parasites of man. (Lecture, 2 hours; laboratory, 3 hours) Prerequisite: Two years of college-level biology or equivalent.

*ZOOL 4620. Herpetology (4)
Anatomy, behavior, classification, distribution, ecology, evolution, and life histories of amphibians and reptiles. (Lecture, 2 hours; laboratory, 6 hours or one field trip per week) Prerequisite: ZOOL 3150 or ZOOL 3610 or equivalent. Offered alternate years.

*ZOOL 4630. Ornithology (4)
Behavior, classification, economic importance, evolution, life histories, migration, and special modifications of birds. Identification in field and laboratory. (Lecture, 2 hours; laboratory, 6 hours or one field trip per week) Prerequisite: ZOOL 3150 or ZOOL 3610 or equivalent. Offered alternate years.

*ZOOL 4640. Mammalogy (4)
Anatomy, behavior, classification, distribution, economic value, evolution, and life histories of mammals. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: ZOOL 3150 or ZOOL 3610 or equivalent. Offered alternate years.

*This course will satisfy the diversity requirement.
ZOOL 4950. Selected Topics in Zoology (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of zoology. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

ZOOL 4970. Selected Topics offered during Winter Term (4)
Business Administration

Thomas P. Barrett, M.A., Professor, Chairman
Wayne R. Chapin, D.B.A., C.P.A., Professor
David O. Jenkins, D.B.A., C.P.A., Professor
Robert W. Lambright, D.B.A., Professor
Cherukuri U. Rao, Ph.D., Professor
Kenneth G. Young, M.B.A., C.P.A., Professor
Ronald W. Lodewyck, Ph.D., Associate Professor
Alfred G. Tsacle, M.A., Assistant Professor
Carl J. Schuetze, M.S., Lecturer

The Division of Business Administration has primary responsibility within the College for the preparation and continuing education of business administrators. The Division strives to meet this responsibility by offering a limited number of carefully selected and soundly developed programs and courses of instruction; by engaging in a continuing research effort of modest proportions in support of this instruction; and by providing appropriate service to the community.

The Division offers two degree programs: one leading to the degree Bachelor of Arts, Business Administration; the second leading to the degree Master of Business Administration (MBA). Courses in the B.A. degree program are offered both during the daytime and the evening. Courses in the MBA program are offered during the evening only. In addition to the regular on-campus course offerings, the Division schedules a number of upper division and graduate courses in the evening in Stockton. The Division also cooperates with the College's Office of Continuing Education in offering a limited but growing number of courses in business and administration designed to meet specific needs of the local community. These courses are offered as demand warrants.

THE BACHELOR OF ARTS, BUSINESS ADMINISTRATION

This program is intended to provide a basic preparation for careers in business administration within the context of a liberal education.

DEGREE OBJECTIVES

This program is designed to help each student acquire:

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. Proficiency in analyzing, evaluating, and synthesizing managerial decisions.
5. A degree of specialized training in a selected area of concentration.

**PROGRAM STRUCTURE**

The business administration major has three principal components: (1) prerequisites to the major, (2) the business administration core, (3) the area of concentration.

The prerequisites to the major, which overlap the General Education program, provide the essential ingredients in the foundation upon which the major is later constructed. Students should schedule these courses during their freshman and sophomore years.

The business administration core, which comprises about two-thirds of the major, is a closely coordinated sequence of courses which introduces the student to the broad field of business administration, develops his knowledge of the basic organizational and economic concepts which underlie the operation of all business enterprises, and develops effective ways of thinking about complex situations encountered in business administration. Except for the integrating course in Business Policy, which must be taken as the last course in the major, students should schedule most courses in the core during their junior year.

The area of concentration, which comprises about one-third of the major, provides the opportunity for a limited amount of specialized study in a selected area of interest. Permissible areas of concentration currently available are Accounting, Finance, Marketing, Operations Administration, and Personnel Administration. Students may also elect to complete 12 units of approved upper division course work in business administration in lieu of a specified concentration. Course work in the area of concentration is, for the most part, restricted to the senior year.

**REQUIREMENTS FOR THE BACHELOR OF ARTS, BUSINESS ADMINISTRATION**

Students seeking the Bachelor of Arts, Business Administration must:

1. Complete all college-wide requirements for the Bachelor of Arts degree.
2. Complete the major, including the prerequisites to the major, the business administration core, and the selected area of concentration. Courses in the business administration core and the area of concentration must be completed for a letter grade.
3. Complete with a grade of C or better all courses which are specified prerequisites to advanced courses in the student's major.
Business Administration

4. Satisfy the Division's requirement for proficiency in English. (See below)
5. Completion of a minor is not required.

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. In addition, the specified prerequisites to the major should be completed. Elective courses should be chosen in the following areas: behavioral sciences, economics, English, and mathematics.

DEGREE MAJOR IN BUSINESS ADMINISTRATION

Prerequisites to the Major

ECON 2500, 2510. Principles of Economics I, II, 8 units
ENGL 1000. English Composition, 3 units
ENGL 2050. Technical and Report Writing, 3 units
MATH 1500. Finite Mathematics, 3 units
or MATH 1910. Calculus with Applications I, 3 units
MATH 1610. Statistics for Decision Making, 3 units
BUS 2000. Introduction to Computers, 2 units
BUS 2010. Computer Programming, 3 units
BUS 2060. Business Law, 3 units
BUS 2110. Financial Accounting, 4 units
BUS 2130. Managerial Accounting, 4 units
(Student concentrating in Accounting will substitute BUS 3140, Cost Analysis, 4 units)

The Business Administration Core

BUS 3000. Quantitative Analysis for Business Decisions, 3 units
BUS 3010. Organization and Environment, 4 units
BUS 3220. Business Finance, 3 units
BUS 3410. Basic Marketing, 3 units
BUS 4080. Business Policy, 3 units
ECON 3150. National Income Analysis, 3 units

THE AREA OF CONCENTRATION

Each student will either choose an area of concentration from those listed below or complete 12 units of approved upper division course work in business administration. Students who complete one of the concentrations listed below may have this concentration noted on their permanent record.
ACCOUNTING

Accounting is a systematic way of describing and analyzing economic activity in order to provide useful information for the guidance of management and others interested in an organization. It involves recording transactions, processing and analyzing the related financial and other quantitative data, and reporting results to management and/or other interested parties.

Work in accounting generally falls into two related areas: managerial accounting—providing useful information for the guidance of management, and financial accounting—reporting results to interested parties outside the organization. Professional careers in accounting are available in business, in government, and in public accounting.

Course requirements are as follows:

BUS 3110. Intermediate Accounting I, 3 units
BUS 3120. Intermediate Accounting II, 3 units

Two of the following as approved by the major adviser:

BUS 4110. Advanced Accounting, 4 units
BUS 4120. Auditing, 4 units
BUS 4140. Income Tax Accounting, 4 units
BUS 4150. Seminar in Accounting Theory, 4 units

FINANCE

Business finance is the three-fold function of determining funds requirements, evaluating and selecting alternate sources of funds, and managing available funds in order to achieve specified objectives.

Professional careers in finance are to be found in the financial administration of industrial, commercial, utility, and government enterprises as well as in financial institutions such as commercial banks, brokerage houses, and investment companies.

Course requirements are as follows:

BUS 4210. Security Analysis & Portfolio Management, 4 units
BUS 4240. Management of Financial Institutions, 4 units
BUS 4250. Financial Management, 4 units

MARKETING

Marketing is the bridge which links the firm to the markets it serves. It includes measuring and interpreting market forces and market opportunities; developing products and/or services to match market opportunities; designing and managing channels of distribution; pricing, market cultivation—advertising, sales promotion, personal selling; and physical distribution.
Business Administration

Professional careers in marketing are to be found in the marketing departments of industrial firms, in merchandising firms, and in specialized marketing firms such as advertising agencies and marketing research agencies, etc.

Course requirements are as follows:

BUS 4400. Consumer Behavior, 3 units
BUS 4420. Marketing Research, 3 units
BUS 4490. Problems in Marketing Strategy, 3 units

One of the following as approved by the major adviser:

BUS 4430. Sales Management, 3 units
BUS 4440. Industrial Marketing, 3 units
BUS 4450. Retailing, 5 units

Operations Administration

Operations Administration is concerned with the functioning of operating systems in different types of organizations. It involves the analysis, design, implementation, operation, and control of integrated systems of manpower, material, facilities, and capital, for the conversion of inputs into desired products and/or services, and the distribution of these outputs. Emphasis is placed on the use of quantitative methodologies in the formulation and solution of management problems.

Career opportunities in the field of operations administration may be found in a variety of organizations--manufacturing firms, banks, hospitals, wholesale-retail chains, transportation firms, etc.

Course requirements are as follows:

BUS 4360. Human Problems in Administration, 3 units
BUS 4510. Production & Operations Administration, 3 units
BUS 4550. Introduction to Management Science, 4 units

One of the following as approved by the major adviser:

BUS 4370. Introduction to Systems Analysis & Design, 3 units
BUS 4520. Program Administration, 3 units
BUS 4530. Simulation of Operating Systems, 4 units

Personnel Administration

Personnel Administration is the process of obtaining and maintaining the human resources of an organization. It includes manpower planning, personnel recruitment, selection and development, performance appraisal, compensation administration, and labor-management relations.
Professional careers in personnel administration may be found with government agencies, hospitals, universities, and labor unions, as well as with private businesses.

Course requirements are as follows:

Four of the following as approved by the major adviser:

BUS 4360. Human Problems in Administration, 3 units
BUS 4610. Personnel Administration, 3 units
BUS 4620. Labor Management Relations, 3 units
BUS 4640. Manpower Development, 3 units
ECON 4100. Labor Economics, 3 units

**DEGREE MINOR IN BUSINESS**

Prerequisites to the Minor

BUS 2110. Financial Accounting, 4 units
ECON 2500, 2510. Principles of Economics I, II, 8 units

Required Courses in Minor Field

BUS 3010. Organization and Environment, 4 units

Plus 9 upper division units as approved by the minor adviser.

**REQUIREMENT FOR PROFICIENCY IN ENGLISH**

Every student seeking a degree in business administration must meet the requirement for proficiency in English. Satisfactory completion of every course is contingent upon such proficiency. No student will be recommended for a degree in business administration unless his work in the program demonstrates satisfactory performance in the writing of English. Any student whose work reflects marked deficiency in English at any point in his degree program will be referred to the Chairman of the Division for such action as seems appropriate.

**COURSE PREREQUISITES**

Most business administration courses have specific subject matter prerequisites for enrollment. Students must complete, with a grade of C or better, all specified prerequisites (or their equivalents) in order to qualify for enrollment in these courses.

Students who have not successfully completed the specified prerequisites for a course, but who can offer convincing evidence of having acquired the necessary background by other means, may petition the professor in charge of the course for permission to enroll. At the discretion of the Division, a qualifying examination may be required.
TEACHING CREDENTIALS

The major and the minor in Business Administration do not constitute appropriate preparation for prospective teachers of business. However, a number of the courses currently offered by the Division may be used in partial fulfillment of the requirements for the credential in secondary education. Interested students should consult the chairman of the Division of Education for assistance in program planning.

MASTER OF BUSINESS ADMINISTRATION

The MBA Program provides professional education in business and administration for men and women who wish to prepare for responsible managerial and staff positions in business, various governmental agencies and other organizations, and for the recognized business professions.

DEGREE OBJECTIVES

This program is designed to help each student acquire:

1. Increased capacity for quick, flexible adjustment to rapidly changing conditions.
2. The capacity to use information effectively at the point of decision.
3. The ability to make and execute decisions.
4. Patterns of thinking and behavior in accordance with the gradually evolving standards of professional behavior.
5. The ability to engage productively with others in a variety of organizational settings.
6. The ability to relate the activities of the organization to a broad view of economic-conditions and social attitudes.

PROGRAM STRUCTURE

The MBA Program has two principal components: (1) the foundation program, and (2) the advanced program.

The Foundation Program is intended to give the student the essence of the undergraduate major in Business Administration.

The Advanced Program consists of a core of 6 required courses (18 units) and an area of specialization (12 units).

Each student will develop a specialization in a functional or analytical field which will meet his or her own unique needs and interests. Students may draw upon the resources of other departments of the college, as appropriate, in developing this part of their program. The current list of courses approved for this purpose may be obtained from the Division of Business Administration.
REQUIREMENTS FOR THE MASTER OF BUSINESS ADMINISTRATION

In addition to successfully completing all required courses, candidates for the MBA must:

1. Meet all college-wide requirements for masters' degrees.
2. Pass a comprehensive examination.
3. Satisfy the Division's requirement for proficiency in English. (See above)
4. Complete all requirements for the degree (Foundation Program, Advanced Program, comprehensive examination) within seven years.

ADMISSION TO THE PROGRAM

Qualified individuals will be admitted to the program without regard to their undergraduate major. There are no specific course prerequisites, majors, or areas of concentration that an applicant must complete in order to qualify. However, all applicants must hold a bachelor's degree from an accredited college or university. Applicants whose native language is not English will be required to demonstrate proficiency in English by completing the Test of English as a Foreign Language (TOEFL) with a score of 550 or above. Personal interviews are not normally required as part of the application procedure. On occasion, interviews may be requested by the Admissions Committee when it believes that an interview would be helpful in the processing of a particular application for admission.

Conditionally Classified Standing

The College admits qualified applicants to conditionally classified standing and advances them to classified standing when eligible. Conditionally classified graduate students are expected to make definite and timely progress toward the achievement of classified standing. Students must achieve classified standing within three calendar years from the date of first enrollment.

Classified Standing

Classified students are those who have been officially admitted to the MBA Program. Classified standing is a prerequisite for enrollment in 5000 level courses in business administration. To qualify for classified standing, students must demonstrate to the satisfaction of the admissions committee that they possess the potential for success in the MBA Advanced Program. In making its decisions the admissions committee will be guided by the following:

1. Achievement on the Graduate Management Admission Test (GMAT)--a minimum score of 450 is required.*

*The Graduate Record Examination (GRE) is not an acceptable substitute for the Graduate Management Admission Test (GMAT).
2. Previous academic record—with particular reference to performance in courses in the MBA Foundation Program—a 3.0 (B) average is required in all Foundation Program courses taken subsequent to the baccalaureate degree.

3. Employment experience.

4. Letters of recommendation.

5. Statement of career objectives.

Students seeking classified standing must follow the procedures obtainable in the office of the Division of Business Administration.

Credit for Previously Completed Work

Students who possess the background equivalent to that which would be obtained by successful completion of any required courses in the MBA Program will be given suitable credit for this work. For courses in the Foundation Program, this means exemption from the course; for courses in the Advanced Program, this means the substitution of a more appropriate course. Students who believe that they have completed the equivalent of any required course must provide acceptable proof of course equivalency to the coordinator of the course, who will make the final decision.

SCHOLARSHIP STANDARDS

A 3.0 (B) average is required of all students in order to remain in good standing in the program. Students who earn less than a B average in any term are subject to review of their eligibility to continue in the program. Required withdrawal from the program may result.

RESEARCH OPTION

Although the MBA Program does not require a thesis, the opportunity to carry out a research project will be made available to interested students.

METHODS OF INSTRUCTION

Instruction is offered in small classes with heavy emphasis upon student participation. Case problem analysis, simulation exercises, group projects, lecture-discussions, independent research, role playing, field trips, etc., are all employed to the extent that they are effective aids to learning.
MASTER OF BUSINESS ADMINISTRATION PROGRAM

Foundation Program (30 units)*

Required Courses:

BUS 3220. Business Finance, 3 units
or BUS 4250. Financial Management, 4 units
BUS 4490. Problems in Marketing Strategy, 3 units
BUS 4550. Introduction to Management Science, 4 units
BUS 4860. Computers in Business, 3 units
BUS 4870. Principles of Accounting, 5 units
BUS 4880. Organizational Behavior, 3 units
BUS 4890. Business Forecasting and Planning, 3 units
ECON 3150. National Income Analysis, 3 units
MATH 4840. Mathematics for Business, 3 units

Advanced Program (30 units)**

Required Courses (18 units):

BUS 5080. Business Policy, 3 units
BUS 5090. Seminar in Business and Society, 3 units
BUS 5110. Graduate Accounting Seminar I, 3 units
BUS 5210. Managerial Finance, 3 units
BUS 5310. Seminar in Management, 3 units
BUS 5410. Marketing Management, 3 units

Area of Specialization (12 units)

An approved sequence of courses tailored to meet the unique needs and interests of the individual student. (Note: At least 6 of the 12 units must be in 5000 level courses; not more than 10 units of the 30-unit Advanced Program may be taken in any one field.)

* Students who possess the background equivalent to that which would be obtained by successful completion of any required courses in the Foundation Program will be exempted from those courses.

** Students who possess the background equivalent to that which would be obtained by successful completion of any required course in the Advanced Program will substitute a more appropriate course.
BUS 2000. Introduction to Computers (2)

Computers and peripheral equipment and control software are considered as an integrated data processing system. Methods of problem definition and solution are explored along with the nature of data structures. Computer programming techniques are introduced. (Lecture, 1 hour; laboratory, 2 hours)

BUS 2010. Computer Programming (3)

A continuation of BUS 2000, with emphasis on computer programming in business applications. (Lecture, 1 hour; laboratory, 4 hours) Prerequisite: BUS 2000 or consent of instructor.

BUS 2060. Business Law (3)

Introduction to the law applicable to business firms and their operation; history and philosophy; sources of law; legal reasoning and procedure; law of contracts, agency.

BUS 2110. Financial Accounting (4)

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

BUS 2130. Managerial Accounting (4)

The analysis, use, interpretation, and synthesis of accounting, and financial data for and by management for planning, control, and decision-making purposes. Designed for students pursuing a concentration other than accounting; credit not applicable to the undergraduate accounting concentration. (Formerly 313) Prerequisite: BUS 2110 or consent of instructor.

BUS 2950. Selected Topics in Business Administration (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in business. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

BUS 2970. Selected Topics offered during Winter Term (4)
BUS 3000. Quantitative Analysis for Business Decisions (3)

Introduction to the application of selected optimization techniques to the solution of complex business problems; the use of quantitative information obtained from accounting and statistical sources in decision making for business. Prerequisites: MATH 1610, MATH 1500 or 1910, BUS 2000.

BUS 3010. Organization and Environment (4)

Examination of the complex relationships among environment, technology, and organizational design, structure, and performance. Attempts to provide an understanding of the organizational characteristics which enable firms to deal effectively with different environments. Prerequisites: ECON 2500, 2510, and junior standing; or consent of instructor.

BUS 3060. Advanced Business Law (3)

Law of business; emphasis on laws relating to sales, personal property, bailments, negotiable instruments, partnerships, corporations, real property, and insurance. (Formerly 317) Prerequisite: BUS 2060.

BUS 3110. Intermediate Accounting I (3)

Accounting theory, development of accounting principles, and their application to income determination and presentation of financial position for the business firm. Prerequisite: BUS 2110.

BUS 3120. Intermediate Accounting II (3)

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 3110 or consent of instructor.

BUS 3140. Cost Analysis (4)

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. Prerequisite: BUS 2110, MATH 1610, and MATH 1500 or MATH 1910.

BUS 3220. Business Finance (3)

Analysis of investment opportunities, determination of funds requirements, sources and uses of funds, cost of capital, capital structure, and funds management. Extensive use of case problems. Prerequisites: BUS 3000 and 2130 or 3140, concurrent enrollment permitted; or BUS 4870.

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BUS 3310. The Administrative Process (3)

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: Junior standing.

BUS 3410. Basic Marketing (3)

Marketing process with emphasis on the management point of view. Consideration is given to the 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. Prerequisite: BUS 3010, concurrent enrollment permitted.

BUS 4010. Readings in Business Administration (2)

Directed readings in a selected area within the broad field of business administration. May be repeated for a maximum of 4 units. Prerequisites: Consent of instructor and approval of division chairman.

BUS 4080. Business Policy (3)

Consideration of the business enterprise as a total system in a total environment. Analysis and evaluation of the problems and opportunities which face the chief executive of a business firm. Emphasis will be on the formulation and implementation of corporate strategy. Extensive use of the technique of case problem analysis. Prerequisite: Completion of all other courses in the business administration core.

BUS 4110. Advanced Accounting (4)

Accounting principles applied to accounting for partnerships, installment sales, consignments, insolvency, estates, trusts, and business combinations. Prerequisite: BUS 3120 or consent of instructor.

BUS 4120. Auditing (4)

Standards and procedures broadly applied to examination of financial statements, including a consideration of the field of public accounting, professional ethics, internal controls, preparation of working papers, and audit reports. Prerequisites: BUS 3110, 3120.

BUS 4140. Income Tax Accounting (4)

History and philosophy of federal income tax law and regulations and procedures for determining income tax liability of business firms and individuals. Prerequisite: BUS 3120 or consent of instructor.
BUS 4150. Seminar in Accounting Theory (4)

History and development of accounting theory; accounting standards, conventions, and principles. Current problems, including a survey of current literature. Prerequisites: BUS 3110, 3120.

BUS 4180. Management Information Systems (3)

Analysis of internal (information) systems which are designed to provide management with a base of information of specified quality and scope in order to facilitate measurement and control of operations. Prerequisites: BUS 2010, 3220, 3410; concurrent enrollment permitted.

BUS 4210. Security Analysis and Portfolio Management (4)

A basic treatment of the problems of security analysis (with special attention to determination of security values and investment timing) and of portfolio selection and management with special attention to the investment problems of the individual investor. (Field trips) Prerequisite: BUS 3220.

BUS 4240. Management of Financial Institutions (4)

Analysis of the various types of financial institutions and money markets, both banking and non-banking; emphasis on supply of funds; differentiating functions and practices; interrelationships of financial intermediation and business firms. (Field trips) Prerequisite: BUS 3220 or ECON 3320.

BUS 4250. Financial Management (4)

Analysis of financial problems and policies of non-financial firms. Includes consideration of both long and short term capital problems. Extensive use of case problems and simulation exercises. Prerequisite: BUS 3220 or BUS 4870.

BUS 4360. Human Problems in Administration (3)

The behavior of individuals and groups in administrative organizations. Emphasis on empirically derived knowledge about human behavior and its meaning to the administrator. Prerequisite: BUS 3010 or 3510 or consent of instructor.

BUS 4370. Introduction to Systems Analysis and Design (3)

The methodology of management systems study. Analysis and documentation of existing systems, determination of system requirements, new systems design and implementation. (Field trips) Prerequisite: BUS 4510.
BUS 4400. Consumer Behavior (3)

The consumer in the marketing process. Emphasis on the manner in which consumers approach decision-making situations and the manner in which predisposition, group influence, and time affect the decision-making process. Prerequisite: BUS 3410.

BUS 4420. Marketing Research (3)

Focus on the management of marketing information as a part of the decision-making process. Emphasis on application of research concepts, methods of analysis, and knowledge of the behavioral and quantitative disciplines in establishing an overall marketing program. (Field trips) Prerequisites: BUS 3000, 3410.

BUS 4430. Sales Management (3)

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 3410.

BUS 4440. Industrial Marketing (3)

Analysis of the managerial activities in marketing of industrial goods. Coverage of market information, market planning, distribution methods, pricing strategies, and promotional problems in industrial marketing. Prerequisite: BUS 3410.

BUS 4450. Retailing (3)

Development of trends, organization, and geographic structure of retailing. Emphasis on management of location, layout, planning and budgeting, and control principles and policies of store operation; pricing, personnel, and customer services management. (Field trips) Prerequisite: BUS 3410.

BUS 4490. Problems in Marketing Strategy (3)

Analysis of management decisions arising from the marketing tasks of the firm. Role of the marketing executive in use of research, the elements of marketing strategy: product, channels of distribution, promotion, price, to arrive at policy decisions. Prerequisites: BUS 4400, 4420, or graduate standing, or consent of instructor.

BUS 4510. Production and Operations Administration (3)

Production problems of a managerial nature: production planning and control, product development, simplification and standardization, procurement, materials handling, methods improvement, impact of technological change. (Field trips) (Formerly 433) Prerequisites: BUS 3000, 3010.
BUS 4520. Program Administration (3)

Planning, organizing, administration, and control of programs. Administration of network systems. Includes programs such as development and introduction of new products, facilities expansion and relocation, construction projects, etc. (Field trips) (Formerly 434) Prerequisites: BUS 3000, 3010.

BUS 4530. Simulation of Operating Systems (4)

Study of basic computer simulation techniques as applied to business administration and management science; survey of various computer applications and languages; examination of theoretical and experimental considerations. The course will make extensive use of the computer. Prerequisites: BUS 2010, 3000, 3010.

BUS 4550. Introduction to Management Science (4)

Analysis by quantitative techniques for managerial planning and decision making. The modeling process; linear, integer, quadratic and dynamic programming; system simulation. Application of statistical methods to problems in business administration. Prerequisite: BUS 3000 or MATH 4840.

BUS 4610. Personnel Administration (3)

Formulation and administration of policies designed to obtain and to maintain the human resources of the organization. Manpower planning, personnel selection and development, performance appraisal, compensation, evaluation of the personnel program (Formerly 431) Prerequisite: BUS 3010 or consent of instructor.

BUS 4620. Labor Management Relations (3)

Perspectives on the internal relationship between management and unionized employees. (Formerly 432) Prerequisite: BUS 4610.

BUS 4640. Manpower Development (3)

Manpower development as a managerial responsibility. Manpower planning, performance appraisal and career path development, training and development of personnel. Coordination of training and development with recruitment, compensation, and other personnel functions. Prerequisite: BUS 4610 or consent of instructor.

BUS 4720. Data Base System Concepts (3)

Data structures, queries, file organization and data management. Analysis of query programs and indexing techniques, including development hashing algorithms. Prerequisite: BUS 2010.
BUS 4730. Advanced Business Programming (3)

The application of advanced programming concepts in the solution of business problems: sorting techniques, internal tables, list and tree structures, dynamic storage allocation, modular programming, etc. Prerequisite: BUS 2010.

BUS 4860. Computers in Business (3)

An introduction to computers, peripheral equipment and software capability within the business firm. A study of problem analysis and solution, and computer programming technology. The course will make extensive use of the computer. Prerequisite: Graduate standing.

BUS 4870. Principles of Accounting (5)

The principles, concepts, and contentions employed in measuring business transactions and analyzing, interpreting, and reporting results to management and other users of financial information. Prerequisite: Graduate standing.

BUS 4880. Organizational Behavior (3)

Study of human behavior in complex social organizations. Analysis of organization systems and managerial actions in terms of their influence on behavior patterns. Prerequisite: Graduate standing.

BUS 4890. Business Forecasting and Planning (3)

Developing strategic plans with emphasis on product-market relationships. Goal setting, objective specification, environmental definition and assessment, analysis and evaluation of the competitive situation, formulation of plans. Prerequisite: Graduate standing.

BUS 4950. Selected Topics in Business Administration (Topics to be specified in Class Schedule) (1-5)

Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

BUS 4970. Selected Topics offered during Winter Term (4)

BUS 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of division chairman.
BUS 5010. Readings in Business Administration (2)

Directed readings in a selected area within the broad field of business administration. May be repeated for a maximum of 4 units. Prerequisite: Consent of instructor and approval of division chairman.

BUS 5050. Seminar in the Management of International Business (3)

This seminar focuses on selected specific problems involved in the management of a company which operates in more than one country. Emphasis may vary from term to term in accordance with the interests of the students involved. Prerequisite: Classified graduate standing; ECON 4410 recommended.

BUS 5080. Business Policy (3)

The formulation, implementation, and administration of corporate strategy. Study, through the technique of case problem analysis, of the pattern of goals and objectives which define a firm, and of the means of the execution of strategy in a specific situation. Prerequisites: BUS 5110, 5210, 5310, and 5410.

BUS 5090. Seminar in Business and Society (3)

Examination of problems and issues involving the interaction and adaptation of business and its legal, political, and social environment. The course is developed around a series of current problems chosen to raise some major issues. Prerequisite: Classified graduate standing.

BUS 5110. Graduate Accounting Seminar I (3)

The application of advanced accounting theory in modern business. Emphasis on current issues and the development of accounting theory. Prerequisite: Classified graduate standing.

BUS 5210. Managerial Finance (3)

This course focuses attention on financial management of business enterprises and its relation to other functional areas of management and to general business policy. Cases and problems provide application of theory to financial decisions involving cash flow management, capital structure planning, capital costs and capital budgeting, dividend policy, and valuation of enterprises operating for profit. Prerequisite: Classified graduate standing.
BUS 5310. Seminar in Management (3)

Current issues and emerging concepts in management. The application of findings and concepts from the behavioral sciences and from management science to problems in management in business firms and other organizations. Prerequisite: Classified graduate standing.

BUS 5410. Marketing Management (3)

Emphasis on managerial decision making and problem solving to formulate and administer effective marketing activities. Marketing as a total system designed to plan, price, distribute, and promote goods and/or services to users. Extensive use of case problems covering buyer behavior, product, channel of distribution, pricing, and promotion. Prerequisite: Classified graduate standing.

BUS 5420. Seminar in Marketing (3)

Advanced study in selected areas within the marketing field. Course content will change from term to term as indicated in the class schedule. Among the subjects to be included are: Marketing Institutions, Product Management, International Marketing, Current Concepts and Emerging Issues. Each of these subjects may be taken for credit under this course number. Prerequisite: BUS 5410.

BUS 5970. Selected Topics Offered during Winter Term (4)

BUS 5980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of division chairman.
Chemistry

Alexander J. Pandell, Ph.D., Associate Professor, Chairman
Jimmy W. Hinkson, Ph.D., Professor
Evan M. Thompson, Ph.D., Professor
John Almy, Ph.D., Associate Professor
Hobart G. Hamilton, Jr., Ph.D., Associate Professor
Michael J. Perona, Ph.D., Associate Professor
James E. Byrd, Ph.D., Assistant Professor

The Department of Chemistry offers the degrees Bachelor of Arts and Bachelor of Science, Chemistry. The student should consult with his departmental adviser to determine which degree is more suitable for his career objective. A student may also qualify for a concentration in the Environmental Sciences in addition to his degree in chemistry.

BACHELOR OF SCIENCE

This program is accredited by the American Chemical Society (ACS) and provides the comprehensive training in chemistry necessary for the student who wishes to become a professional chemist in industry or government, or who plans to attend graduate school. Students wishing to receive a degree accredited by the American Chemical Society must complete one year of German or computer science in addition to the major requirements for the Bachelor of Science degree listed below. Students obtaining an accredited degree are eligible to join the ACS immediately upon graduation.

BACHELOR OF ARTS

In contrast to the B.S. program, the Bachelor of Arts program is designed for those seeking to enter professions requiring moderate training in chemistry combined with training in other areas. Examples are health professions such as medicine, optometry, dentistry, medical technology, pharmacy, physical therapy, and veterinary medicine. Technical sales writing, chemical patent law, library work, and high school teaching would be examples of other careers for Bachelor of Arts graduates. The student will be advised to take specific courses depending on his field of interest; for example, ZOOL 1050, CHEM 4010, 4400, and ZOOL 3130 or ZOOL 3150, or both, in preparation for dental, medical, or veterinary medical schools. Further information on the health professions area can be obtained from the Health Sciences Advisory Committee.
Chemistry

REQUIREMENTS FOR THE BACHELOR OF ARTS OR BACHELOR OF SCIENCE, CHEMISTRY

Chemistry majors are to:

1. Complete the college requirements for the bachelor's degree.
2. Complete prerequisites to the major: CR grades will not be accepted for chemistry prerequisites.
3. Complete a major of not less than 24 upper division units as specified for the Bachelor of Arts degree, or 31 upper division units as specified for the Bachelor of Science degree; of these, no more than 8 units of CR graded course work may apply toward the major.
4. Completion of a minor is not required.

BACHELOR OF ARTS DEGREE IN CHEMISTRY

Prerequisites to the Major:

Required courses in the major field:

- CHEM 1100, 1110. Principles of Chemistry I, II, 10 units
- CHEM 2010. Quantitative Analysis & Basic Instrumental Techniques, 4 units

Required courses in supporting fields:

- MATH 1910, 1920. Calculus with Applications I, II, 6 units
- OR
- MATH 1410, 1420. Calculus I, II, 8 units

Either of the following sequences:

- PHYS 1100, 1110. Basic Physics I, II, 10 units
- OR
- PHYS 2250, 2260. General Physics I, II, 8 units
- PHYS 2550, 2560. General Physics Laboratory I, II, 2 units

The Major

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At least 5 credit hours from the following courses:

- CHEM 4200. Physical Chemistry II, 3 units
- CHEM 4230. Physical Chemistry Lab, 1-2 units
- CHEM 4250. Advanced Inorganic Chemistry, 3 units
- CHEM 4210. Coordination Chemistry, 2 units
### Chemistry

<table>
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<tr>
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#### Bachelor of Science Degree in Chemistry

Prerequisites to the Major:

**Required courses in the major field:**

- CHEM 1100, 1110. Principles of Chemistry I, II, 10 units
- CHEM 2010. Quantitative Analysis & Basic Instrumental Techniques, 4 units

**Required courses in supporting fields:**

- MATH 1410, 1420. Calculus I, II, 8 units
- MATH 2410. Multivariate Calculus, 4 units
- MATH 2500. Elementary Linear Algebra, 3 units
- PHYS 2250, 2260. General Physics I, II, 8 units
- PHYS 2350, 2360. General Physics Laboratory I, II, 2 units

**The Major**

<table>
<thead>
<tr>
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<th>Units</th>
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At least 6 credit hours from the following courses:

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<td>PHYS 3520</td>
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**Total**..............24
One of the following sequences as approved by the student's major adviser should be taken by those students wishing an ACS accredited degree.

GERM 1010, 1020. Elementary German I, II, 8 units
or MATH 2000, 2010. Introduction to Computers; Computer Programming, 5 units

**DEGREE MINOR IN CHEMISTRY**

Consists of 18 units in chemistry as approved by the department, which must include at least 8 upper division units.

**ENVIRONMENTAL SCIENCES CONCENTRATION**

A chemistry major may complete additional requirements in the sciences and mathematics to qualify for a concentration in Environmental Sciences. This program requires study in biological sciences, chemistry, mathematics, and physical sciences, along with an environmental seminar and investigation of an environmentally related problem. Further details are found in the Environmental Sciences section of this catalog.

**LIBERAL STUDIES CONCENTRATION IN CHEMISTRY**

The following courses are required for a concentration in Chemistry within the Liberal Studies degree:

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**COURSE DESCRIPTIONS**

**Lower Division**

CHEM 1000. Chemistry in the Modern World (3)

Basic principles of chemistry as applied to the world around us. A descriptive course designed to satisfy both the General Education requirements of the non-science student and the chemistry requirement for the elementary school teacher. Not open to students with previous college chemistry. (Lecture, 3 hours)

*CHEM 1100, which is prerequisite to this course, can be taken in place of CHEM 1000 for those Liberal Studies students opting for the chemistry concentration.*
Chemistry

CHEM 1100. Principles of Chemistry I (5)

Fundamental principles of chemistry emphasizing atomic structure, periodic properties, theories of bonding, kinetic theory of gases, solution chemistry. (Lecture 3 hours; discussion, 1 hour; laboratory, 3 hours) (Formerly 101, 102) Prerequisite: Two years of high school algebra or consent of instructor.

CHEM 1110. Principles of Chemistry II (5)

A continuation of CHEM 1100, emphasizing gaseous and ionic equilibria, electrochemical principles, thermodynamics, radiochemistry, and descriptive chemistry of the elements. (Lecture, 3 hours; laboratory, 6 hours) (Formerly 102, 103) Prerequisite: CHEM 1100.

CHEM 2010. Quantitative Analysis & Basic Instrumental Techniques (4)

Principles and practice of volumetric, gravimetric, and instrumental methods of analysis. (Lecture, 2 hours; laboratory, 6 hours) (Formerly 211) Prerequisite: CHEM 1110.

CHEM 2400. The Science of Winemaking (4)

A basic and practical introduction to the science of winemaking. Topics to include fermentation, history of the wine industry, and related topics. Basic chemical concepts will be developed to facilitate the understanding of the subject matter. Prerequisites: None.

CHEM 2950. Selected Topics in Chemistry (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of chemistry. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

CHEM 2970. Selected Topics offered during Winter Term (4)

Upper Division

CHEM 3010. Organic Chemistry I (3)

Structure, properties, reactions, and stereochemistry of carbon compounds. Reaction mechanisms. Applications of spectroscopy to organic molecules. Carbohydrates, amino acids, and proteins. (Lecture, 3 hours) Concurrent enrollment in CHEM 3030 required. (Formerly 321, 322) Prerequisite: CHEM 1110.

CHEM 3020. Organic Chemistry II (3)

Continuation of CHEM 3010. (Lecture, 3 hours) Concurrent
enrollment in CHEM 3040 required. (Formerly 322, 323) Prerequisite: CHEM 3010.

CHEM 3030. Organic Chemistry Laboratory I (1-2)

Basic laboratory techniques, simple organic syntheses, isolation of natural products, multi-step syntheses, vapor phase chromatography, thin-layer chromatography, qualitative organic analysis, spectroscopic applications to structure determination. (Laboratory, 3 or 6 hours) Concurrent enrollment in CHEM 3010 required. (Formerly 324, 325) Prerequisite: CHEM 1110.

CHEM 3040. Organic Chemistry Laboratory II (1 or 2)

Continuation of CHEM 3030. (Laboratory, 3 or 6 hours) Concurrent enrollment in CHEM 3020 required. (Formerly 325, 326) Prerequisite: CHEM 3030.

CHEM 4010. Physical Chemistry I (3)

The three laws of thermodynamics, equilibrium, critical properties of gases, osmosis, phase rule, electrochemistry, chemical kinetics, molecular structure, and spectroscopy. (Lecture, 3 hours) (Formerly 461) Prerequisites: One year of calculus and one year of physics.

CHEM 4020. Physical Chemistry II (3)

Continuation of CHEM 4010 (Lecture, 3 hours) Concurrent enrollment in CHEM 4030 required. (Formerly 462) Prerequisites: MATH 1420, CHEM 4010.

CHEM 4021. Elements of Chemical Kinetics & Molecular Spectroscopy (1)

An introduction to chemical kinetics and molecular spectroscopy. The course is intended for BA chemistry majors and others needing a nonrigorous survey of these topics, and is not open to BS chemistry majors. No formal lectures will be held. The course will consist of one weekly one-hour discussion session and individual consultation with the instructor. Students will be guided by a detailed course outline which will include reading and problem assignments and course objectives. Prerequisite: CHEM 4010.

CHEM 4030. Physical Chemistry Laboratory (1 or 2)

Laboratory applications of the principles of physical chemistry. (Laboratory, 3 or 6 hours) (Formerly 403, 404) Prerequisites: CHEM 4010 and concurrent enrollment in CHEM 4020 if the course is taken for 2 units. CHEM 4010 only, if the course is taken for 1 unit.
Chemistry

CHEM 4100. Instrumental Analysis (4)

Instrumental methods of chemical analysis including discussion of the theory and application of nuclear magnetic resonance, electron spin resonance, mass spectroscopy, infrared, Raman, visible-ultraviolet and atomic absorption spectroscopy; flame photometry; X-ray diffraction, neutron activation and analysis; ESCA; specific ion electrode methods; gas, liquid, and ion-exchange chromatography. (Lecture, 2 hours; laboratory, 6 hours) (Formerly 412) Prerequisite: CHEM 2010, 3020 and 4010, or consent of instructor.

CHEM 4200. Advanced Inorganic Chemistry (3)

Atomic structure, periodic properties, theories of bonding, structure, introduction to coordination chemistry, and reactions of representative elements. (Lecture, 3 hours) (Formerly 401) Prerequisite: CHEM 4010 or consent of instructor.

CHEM 4210. Coordination Chemistry (2)

Structure, bonding, spectra and reactions of representative metal complexes. (Lecture, 2 hours) Prerequisite: CHEM 4200.

CHEM 4300. Advanced Organic Chemistry (3)

Chemical kinetics, structure-reactivity relationships, molecular orbital theory, orbital symmetry, reactive intermediates, rearrangements and neighboring group effects, nucleophilic aliphatic substitution, photochemistry. (Lecture, 3 hours) (Formerly 427) Prerequisite: CHEM 3020.

CHEM 4400. Biochemistry (3)

The chemistry, metabolism, enzymology, and energy relationships of important biological compounds and processes. (Lecture, 3 hours) (Formerly 480) Prerequisite: CHEM 3020 or consent of instructor.

CHEM 4410. Biochemistry Laboratory (1)

An introduction to biochemical techniques including chromatography, enzyme purification, spectrophotometry, and fluorimetry. (Laboratory, 3 hours) Prerequisite: Concurrent enrollment in CHEM 4400 or consent of instructor.

CHEM 4950. Selected Topics in Chemistry (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of chemistry. Topics vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.
CHEM 4960. Research Seminar (1)

The presentation of research results or topical literature surveys by students and visiting scientists. May be repeated for a total of 2 units. Prerequisite: Senior standing or consent of instructor.

CHEM 4970. Selected Topics offered during Winter Term (4)

CHEM 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

CHEM 5980. Individual Study (1-4)

For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.
The Bachelor of Arts degree program in Child Development is an interdisciplinary based program which provides the student with a background of skills and knowledge which are designed to prepare him for the following career-oriented options:

1. To work in Child Development centers preparatory to the awarding of the certificate for supervision of Child Development Centers.
2. To constitute a basis for advanced study leading to specialized credentials in Early Childhood Education and Learning Disabilities.
3. To provide an area of concentration for the Liberal Studies degree prerequisite, for the Multiple Subject Teaching Credential. (See Liberal Studies.)

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN CHILD DEVELOPMENT

1. Complete General Education requirements for the Bachelor of Arts degree.
2. Complete 12 units of lower division prerequisites at an accredited community college in the following curricular concentrations in Child Development:
   a. Six units of lower division practicum in guidance and management of young children. Practicum must be taken in the following types of course of study: child development laboratory, nursery school practice, and early childhood theory and practice.
   b. Six units of lower division electives in course work dealing with the following areas of knowledge: nature of early childhood growth and development, child, family and community interrelationships.
3. Complete the major requirements of not less than 34 units of approved upper division course work.

CORE PROGRAM - 20 required units

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<td>Early Cognitive Development</td>
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<tr>
<td>SPCH 4721</td>
<td>Practicum in Developmental Assessment, 3 units</td>
<td>3</td>
<td>A, F, G</td>
</tr>
<tr>
<td>SPCH 4730</td>
<td>Field Experience in Management of Child</td>
<td>2</td>
<td>A, G, I, H</td>
</tr>
</tbody>
</table>

Curricular Objective Module*
Drama

Upper Division

DRAM 3200. Stagecraft .................. 4
DRAM 4600. Directing .................. 4

Two courses selected from the following:

DRAM 2501. Acting: Technique, Theory & Practice,
            3 units
DRAM 3210. Makeup, 3 units
DRAM 3220. Stage Lighting, 3 units
DRAM 3240. Costuming, 3 units ........... 6

Total ................................ 21

COURSE DESCRIPTIONS

Lower Division

DRAM 1010. Introduction to Theatre (3)

Introductory survey of theatrical art. The theatre as an art
form; elements of theatre; classroom practice in the fundamentals
of theatrical production. (Formerly 220)

DRAM 2010. Theatre and Society (3)

Survey of major periods in which theatre and drama have flour­
ish ed in Western society, including classic Greek, Elizabethan,
and modern European. Emphasis on the relationship between theatre
and society: how theatre and drama reflect social concerns; how
social conditions influence plays, playhouses, and performance.

DRAM 2100. Theatre Management I (1)

An introduction to the methods of operating a theatre as a
business; publicity, box office, and house management.

DRAM 2110. Theatre Management II (1)

An introduction to the methods of managing the backstage opera­
tion of a theatrical production.

DRAM 2250. Beginning Costume and Makeup (2)

An introduction to the basic techniques of stage makeup and
the design and construction of stage costumes. (Formerly 2210
and 2240)

DRAM 2260. Beginning Lighting and Technical Production (2)

An introduction to the techniques of backstage operation and
the practice of lighting the stage. (Formerly 2220 and 2230)
DRAM 2300. Theatre Workshop I (1-2)

Practice in all phases of theatrical production, except acting and stage management. May be repeated for credit once each semester.

DRAM 2350. Rehearsal and Performance I (3)

Practice in acting and in stage management for public performance. May be repeated for credit once each semester. Prerequisite: Consent of instructor.

DRAM 2500. Acting: Improvisation and Technique (3)

Theatre games, improvisation, and exercises for the development of individual skills in acting. (Formerly 2000)

DRAM 2501. Acting: Technique, Theory and Practice (3)

Introduction to character analysis, characterization, the playing of dramatic action. Will include work on vocal and physical skills, and will concentrate on scenes from modern realistic drama. Prerequisite: DRAM 2500 or consent of instructor.

DRAM 2950: Selected Topics in Drama (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in drama. Topics may vary each term and are frequently selected to complement current dramatic productions. Different topics may be taken for credit.

DRAM 2970. Selected Topics offered during Winter Term (4)

Upper Division

DRAM 3020. Children's Theatre (3)

A study of special problems and techniques in the production of formal drama for children; and a consideration of techniques, methods, and materials for use in improvised theatre.

DRAM 3050. Introduction to Cinema (3)

Study of the cinema and its relationship to contemporary culture. Includes a survey of selected films, critical discussions, and written appraisal of films. (Formerly 424) (Same as ENGL 3050)

DRAM 3200. Stagecraft (4)

Principles and practice in the techniques of building, painting, mounting, and rigging of stage scenery and properties for
Drama

production. (Formerly 320 & 321) Prerequisites: DRAM 2260 or consent of instructor.

DRAM 3210. Makeup (3)

Principles and practice in the art of theatrical makeup. (Formerly 309) Prerequisite: DRAM 2250 or consent of instructor.

DRAM 3220. Stage Lighting (3)

Theory and practice in the art of designing effective stage lighting. Prerequisites: DRAM 3200 and consent of instructor.

DRAM 3230. Scene Design (3)

Principles and practice in the techniques of creating effective scenery for the stage. Prerequisites: DRAM 3200 and consent of instructor.

DRAM 3240. Costuming (3)

Principles and practice in the art of theatrical costuming. (Formerly 306) Prerequisite: DRAM 2250 or consent of instructor.

DRAM 3250. Costume Design (3)

Fundamentals of costume design and history of costume periods. (Formerly 307) DRAM 3240 recommended.

DRAM 3410. Seminar in Dramatic Theory and Criticism (3)

Investigation of dramatic and theatrical works as art forms. Introduction to methods of critical analysis.

DRAM 3500. Acting: Scene Study I (3)

Intensified work on the analysis of character and dramatic action, and on the playing of dramatic action. Scene work from modern realistic drama. Prerequisite: DRAM 2501 or consent of instructor.

DRAM 3501. Acting: Scene Study II (3)

Scene work in modern realistic and non-realistic drama and comedy. Prerequisite: DRAM 3500 or consent of instructor.

DRAM 3510. History of Theatre I (3)

Historical analysis of theatre from its primitive origins through the neo-classic period in France. (Formerly 421 & 422)
DRAM 3520. History of Theatre II (3)

Historical analysis of theatre from the time of the Restoration in England to the outbreak of World War II. (Formerly 422 & 423)

DRAM 3530. Contemporary Theatre (3)

Historical analysis of the theatre since World War II. Emphasis on recent developments.

DRAM 4300. Theatre Workshop II (2)

Advanced practice in all phases of theatrical production, except acting and stage management. May be repeated for credit once each semester. Prerequisite: Upper division standing.

DRAM 4350. Rehearsal and Performance II (3)

Practice in acting and in stage management for public performance. May be repeated for credit once each semester. Prerequisite: Upper division standing and consent of instructor.

DRAM 4500. Acting: Historic Styles I (3)

Study of acting styles and the creation of style in drama of various periods, such as Greek, Elizabethan, Restoration, Nineteenth Century Realism, Epic and Absurd Theatre. Prerequisite: DRAM 3501 or consent of instructor.

DRAM 4501. Acting: Historic Styles II (3)

Rehearsal and performance of project pieces from various dramatic periods and styles. Prerequisite: DRAM 4500 or consent of instructor.

DRAM 4550. American Theatre (3)

Historical analysis of theatre and drama in the United States from Colonial times to the outbreak of World War II.

DRAM 4600. Directing (4)

Examination of history, principles, and procedures of the theatrical director. Practical scene work in composition, movement, and tempo. Practical scene work in period styles.

DRAM 4610. Senior Project (4)

Senior drama majors, in consultation with the drama faculty, will produce a series of public performance projects. Prerequisites: Standing as a senior drama major and consent of instructor.

Economics

Frederick E. Kottke, Ph.D., Professor, Chairman
H. Dieter Renning, Dr. rer. pol., Professor
William Dale Crist, Ph.D., Associate Professor
Yin-Po Lee, Ph.D., Associate Professor
Drama

DRAM 4950. Selected Topics in Drama (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in drama. Topics may vary each term and are frequently selected to complement current dramatic productions. Different topics may be taken for credit.

DRAM 4970. Selected Topics offered during Winter Term (4)

DRAM 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

DRAM 5980. Individual Study (1-4)

For postbaccalaureate students capable of independent work and in need of advanced specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

Economics

at least one course each from four of the areas of specialization:

1. Money and Banking
2. Economic Theory and Doctrines
3. Labor Economics
4. International Economics
5. Public Finance and Fiscal Policy
6. Economic History
INTERNATIONAL ECONOMICS

ECON 4050. Comparative Economic Systems, 3 units
ECON 4401. Third World Economics, 3 units
ECON 4410. International Trade, 3 units
ECON 4420. Soviet Economics, 3 units
ECON 4430. International Economic Policies, 3 units
ECON 4450. Economic Planning, 3 units

ECONOMIC HISTORY

ECON 4160. Economic History of Europe, 3 units

QUANTITATIVE ECONOMICS

ECON 3200. Quantitative Analysis I, 4 units
ECON 3210. Quantitative Analysis II, 4 units
ECON 4300. Mathematical Economics I, 3 units

GENERAL COURSES

ECON 4500. Urban Economics, 3 units
ECON 4950. Selected Topics in Economics, 1-5 units
ECON 4960. Senior Seminar, 3 units

COURSE DESCRIPTIONS

Lower Division

ECON 2000. Economic History of the United States (3)

Analysis of economic growth from colonial period to present with emphasis on evolution of business and change in the American system. No prerequisite. (Formerly 4150)

ECON 2500. Principles of Economics I (4)

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

ECON 2510. Principles of Economics II (4)

Microeconomics; price system and market structures, public policy and income distribution. Fundamentals of international economics; international trade, principles and problems of economic growth and development, analysis of economic systems. Special problem areas in American economy; urban economics, environmental economics, agricultural economics.
ECON 2950. Selected Topics in Economics (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of economics. Topics may vary each term. Different topics may be taken for credit.

ECON 2970. Selected Topics offered during Winter Term (4)

Upper Division

ECON 3150. National Income Analysis (3)

Analysis of macroeconomic conditions and adjustments in a free enterprise system. National income accounting and employment theory. Prerequisite: Economic Principles or consent of instructor.

ECON 3200. Quantitative Analysis I (4)

Measurement of economic data, statistical inference, quality control, linear regression and correlation, secular trend, seasonal and cyclical variations in time series, and theory of index numbers.

ECON 3210. Quantitative Analysis II (4)

Testing of economic theories, measurement of economic relationships, analysis and forecasting of business situations, application of regression and correlation techniques, autocorrelation, multicollinearity, dummy variables, simultaneous equation models, identification and other topics of elementary econometrics. Prerequisite: ECON 3200 or consent of instructor.

ECON 3320. Money and Banking (3)

Money and the level of economic activity; supply and demand for money; competition among financial institutions; the Federal Reserve System and monetary policy. Prerequisite: Economic Principles or consent of instructor.

ECON 4000. Intermediate Theory (Macroeconomics) (3)

Macroanalysis; income levels, expenditures, prices, and employment; application to depression and inflation. Prerequisite: Economic Principles or consent of instructor.

ECON 4010. Economic Thought (3)

Survey and comparison of the ideas and doctrines of major schools of economic thought from the Middle Ages to the Twentieth Century, with emphasis on Classical and Neoclassical economics, Marxism, Institutionalism, and Keynesian economics.
ECON 4050. Comparative Economic Systems (3)

Comparison of alternative economic systems. Market economies versus planned economies. Institutions and patterns of economic decision making. Resource allocation and income distribution under different forms of economic organization. Comparative economic performance. Prerequisite: Economic Principles or consent of instructor.

ECON 4100. Labor Economics (3)

A study of theories of wage determination, income distribution, manpower imbalance, and economic problems of minority groups. History and theory of the American labor movement and theories of collective bargaining. Prerequisite: Economic Principles or consent of instructor.

ECON 4110. Collective Bargaining in the Public Sector (3)

General survey of employer-employee relations in the public sector. Particular attention paid to developments in public employee collective bargaining legislation and present state of the art of negotiations for conflict resolution in the public sector. Prerequisite: Principles of Economics or consent of instructor.

ECON 4160. Economic History of Europe (3)

Analysis of economic development from medieval period to present. Emphasis on the emergence and evolution of capitalism, the economics of imperialism, the industrial revolution and the European economic community. (Formerly 310) Prerequisite: Sophomore standing.

ECON 4200. Intermediate Theory (Microeconomics) (3)

Theory of consumer behavior and market demand; production, costs, and the theory of the firm; theories of competition and monopoly; concentration and anti-trust policies; models of oligopoly and monopolistic competition; resource pricing and income distribution; elements of welfare economics. Prerequisite: Economic Principles or consent of instructor.

ECON 4300. Mathematical Economics (3)

Static analysis; comparative-static analysis; optimization problems, input-output analysis; linear programming and game theory. Prerequisite: Economic Principles or consent of instructor.
ECON 4401. Third World Economics (3)

Analysis of economic problems of less developed third world countries; agriculture, industrial development, capital investment, trade, income distribution, population growth and education; economic theories, and policy tools for economic growth and development. (Formerly 4400) Prerequisite: Economic Principles or consent of instructor.

ECON 4410. International Trade (3)

Pure theory of international trade, commercial policies, tariff issues and other trade restrictions, multinational corporations and foreign investment, international and regional trade organizations, U.S. trade with communist countries. Prerequisite: Economic Principles or consent of instructor.

ECON 4420. Soviet Economics (3)


ECON 4430. International Economic Policies (3)

Foreign exchanges and balance of international payments, international financial relations and institutions, fiscal and monetary policies designed to restore balance-of-payments equilibrium, U.S. balance-of-payments and European financial developments, proposals for reform in the international monetary systems. Prerequisite: Economic Principles or consent of instructor.

ECON 4450. Economic Planning (3)

Structure, methodology, and application of economic planning; decentralized vs. centralized organization of economic activity; macroeconomic planning models. Prerequisite: Economic Principles or consent of instructor.

ECON 4540. Public Finance and Fiscal Policy (3)

Principles, problems, and policies of public expenditure, credit, debt, budgeting, and fiscal policy. Prerequisite: Economic Principles or consent of instructor.

ECON 4550. Taxation and the American Economy (3)

Principles, problems, policies of local, state, and federal taxation; economics, ethics, law, administration of the tax system; influence of tax policy on the economic system; state and federal income tax returns. Prerequisite: Economic Principles or consent of instructor.
ECON 4600. Urban Economics (3)

An analysis of the economic interdependency of markets in urban areas and possibilities for alternative resource use; land utilization patterns, urban transportation, labor markets, housing, and public service markets. Prerequisite: Economic Principles or consent of instructor.

ECON 4950. Selected Topics in Economics (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in economics. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Junior standing or consent of instructor.

ECON 4960. Senior Seminar (3)

Reading and discussion in significant areas of economics; analysis of major contemporary economic problems, national and international. Prerequisite: Senior standing in economics.

ECON 4970. Selected Topics offered during Winter Term (4)

ECON 4980. Individual Study (1-4)

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

Graduate

ECON 5850. Seminar in Public Finance and Fiscal Policy (3)

An analysis of budgetary process, expenditure policy, debt policy, intergovernmental fiscal relations, and taxation on the federal, state, local, and county levels of government. Prerequisite: Classified graduate standing in the M.P.A. Program. (See M.P.A. Program in Public Administration)

ECON 5950. Selected Topics in Economics (Topics to be specified in Class Schedule) (1-5)

Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

ECON 5970. Selected Topics in Economics, Winter Term (1-4)
Economics

ECON 5980. Individual Study (1-4)

For student capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

ECON 5990. Thesis (1-6)

Thesis research. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of graduate adviser.
The College, in addition to curricula in the liberal arts, offers professional programs in the Division of Education to prepare candidates for certification in elementary and secondary school teaching, reading, school administration, and school counseling. Those students interested in teaching credential programs should make application to the Office of the Credentials Coordinator. Graduate programs leading toward a Master of Arts in Education with concentrations in elementary or secondary curriculum, administration, or in school counseling are also available to qualified students. Those students interested in graduate degree programs should obtain information from the Division of Education Office. The College also offers specialized preparation for teachers in the area of the speech and hearing handicapped, as described in the Speech Communications section of this catalog, and in the area of learning handicapped and school psychology as described in the Psychology section of this catalog.

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 in modern society, human growth and development, the learning process, and instructional materials and techniques applicable at successive educational levels. It is assumed that the student will also acquire a broad base of liberal arts preparation, including a degree in a selected field of academic study. All credential programs are presently accepted by the California State Board of
Education

Education or the Commission for Teacher Preparation and Licensing in fulfillment of certification regulations.*

TEACHING CREDENTIAL PROGRAM

California State College, Stanislaus is authorized to prepare students to teach in either the elementary or secondary levels. Under the Credentialing Law of 1972 (Ryan Act) these are the Multiple Subject Credential (elementary schools) and Single Subject Credential (secondary schools).

I. MULTIPLE SUBJECT CREDENTIAL (ELEMENTARY TEACHING):

1. Requirements for a Multiple Subject Credential at California State College, Stanislaus, include the following:
   1.1 Completion of B.A. degree, with a major in Liberal Studies
   or
   Completion of any baccalaureate degree in any major, and a passing score on the State Approved Multiple Subject test.**
   1.2 Completion of an approved Professional Education Program of 30 semester units.
   1.3 Completion of an approved 30 semester unit post-baccalaureate program
   1.4 Two years of teaching experience in California public schools under standard certification.

2. Advisement. Upon admission to the College, the student needs to plan a program of studies leading to a degree.
   2.1 The general advise to students interested in the Multiple Subject Credential is to enroll in the Liberal Studies degree program. The intent of the Credentialing Law is that elementary teachers should have a broad education, with at least 84 semester units distributed among the social sciences, math and

* The California State Board of Education and the Commission are 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.

**The Commission on Teacher Preparation and Licensing has approved the National Teachers Exam, Common Area, for this test. The test is given at the College in November, January, April, and July. Details may be obtained from the Testing Officer, Office of Student Services, California State College, Stanislaus.
sciences, arts and humanities, and English-speech. At California State College, Stanislaus, the Liberal Studies degree program satisfies this requirement and includes an additional area of concentration of 20 units. Hence, by completing the Liberal Studies degree, the student meets the academic requirements of the law, completes most of a single subject major or an academic area of emphasis, and need not take the Commission's approved Multiple Subject test.

2.2 Liberal Studies degree students are referred to the Liberal Studies section of the catalog for this program.

2.3 Liberal Studies degree students should select their area of concentration so that it complements their professional goals, e.g., child development for early childhood education, a teaching field if also interested in a Single Subject Credential, or a Bilingual-Cross Cultural emphasis if interested in bilingual education.

2.4 Students who elect other degree majors and who plan to take the Commission approved test should select their general education course work keeping the multiple subject areas of required competency in mind.

2.5 Cross cultural course work is strongly recommended; an advanced English composition course (ENGL 3000) is strongly recommended.

II. SINGLE SUBJECT CREDENTIAL (SECONDARY TEACHING):

1. Requirements for a Single Subject Credential at California State College, Stanislaus, include the following:

1.1 Completion of a B.A. degree, with a Commission approved waiver major in the area in which the student is planning to teach.

or

Completion of any baccalaureate degree and a passing score on a State Approved Single Subject test* in one or more of the following areas:

1. English
2. Physical Sciences
3. Natural Sciences
4. Math
5. Social Sciences

* The Commission on Teacher Preparation and Licensing has approved the National Teachers Exam, Area tests, for these tests. Details may be obtained from the Testing Officer, Office of Student Services, California State College, Stanislaus.
Education

6. History
7. Industrial Arts
8. Government
9. Physical Education
10. Business
11. Music
12. Art
13. Home Economics*
14. Foreign Language
15. Agriculture*

1.2 Completion of an approved Professional Education Program of 30 semester units.

1.3 Completion of an approved 30 semester unit postbacca­laureate program.

1.4 Cross cultural course work is strongly recommended; an advanced English composition (ENGL 3000) is required.

III. ADMISSION TO AND CONTINUANCE IN PROFESSIONAL EDUCATION:

All students interested in teaching credentials should contact the Coordinator of Credentials or the Division of Education office early in their academic career.

1. Students must apply and be accepted into a Credential Program prior to enrolling in professional education required courses.

2. Application procedures for admission into a Credential Program include: an interview; letters of recommendation; transcripts (GPA minimum overall of 2.50 is required to apply;** Single Subject Credential applicants also need a 2.75 overall GPA in the teaching major); a statement of intent emphasizing experience with students; and a covering application form. These forms are available in the office of the Credentials Coordinator.

3. Students planning to complete student teaching before graduation need to seek admission to the Credential Program during the first semester of the junior year.

* These waiver majors are available at California State College, Stanislaus, except for Agriculture, Industrial Arts and Home Economics. Students completing these latter waiver majors elsewhere or successfully passing the Commission approved tests may apply for the CSCS Single Subject Credential Program.

**Students with overall GPA below 2.50 but with better than a 2.75 GPA in the most recent 30 semester hours may apply.
Normally major requirements will be completed prior to the senior year.

4. Students planning to complete the Professional Education requirements after graduation need to seek admission during the last semester of their senior year.

5. In order to be considered, a completed application folder (transcripts, evaluations, etc.) must be filed with the Credentials Office no later than the following deadlines:

<table>
<thead>
<tr>
<th>Semester to Start</th>
<th>Deadline</th>
<th>Expect Notification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 1977*</td>
<td>October 15, 1976</td>
<td>November 15th</td>
</tr>
<tr>
<td>Fall 1977</td>
<td>March 15, 1977</td>
<td>April 15th</td>
</tr>
</tbody>
</table>

6. GPAs are reviewed each semester. Students will be disqualified if the upper division single subject GPA drops below 2.75. Once admitted to either credential program, the candidate must earn a GPA of 2.5 or better each term. No grades below "C" in required education courses are acceptable toward the credential.

IV. PROFESSIONAL EDUCATION REQUIRED PROGRAM:

1. Multiple Subject Credentials: (preliminary credential)

Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 3010</td>
<td>Foundations of Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 3120</td>
<td>Elementary Curriculum &amp; Instruction I</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 3130</td>
<td>Elementary Curriculum &amp; Instruction II</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 3250</td>
<td>Reading Instruction in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 3810</td>
<td>Elementary School Student Teaching I</td>
<td>4</td>
</tr>
<tr>
<td>**EDUC 4810</td>
<td>Elementary School Student Teaching II</td>
<td>8</td>
</tr>
<tr>
<td>**Total</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Total units required for preliminary recommendation 24

(See 5th year approved program for additional requirements.)

*There will probably be no Spring 1977 admission to the Single Subject Credential Program. For further information contact the Credentials Office.

**Prerequisites for final student teaching assignment: (a) completion of Liberal Studies waiver major or achievement of a passing score on the Commission approved test; (b) maintenance of a GPA of 2.5 or better in Professional Education and academic work each term while admitted to the Credential Program; (c) completion or concurrent enrollment in all program elements and consent of the Multiple Subject Credential Program Coordinator.
Consult the Multiple Subject Credential Program Coordinator to plan the Professional Education Sequence.

The typical student will enroll full time in education for the senior or graduate year as follows:

<table>
<thead>
<tr>
<th>Begin</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Term</td>
<td></td>
</tr>
<tr>
<td>EDUC 3010 (3)</td>
<td>*Elective (4)</td>
<td>EDUC 3810 (4)</td>
</tr>
<tr>
<td>EDUC 3120 (3)</td>
<td>or</td>
<td>EDUC 4810 (8)</td>
</tr>
<tr>
<td>EDUC 3130 (3)</td>
<td>*EDUC 4120 (3)</td>
<td>*EDUC 4840 (3)</td>
</tr>
<tr>
<td>EDUC 3250 (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*EDUC 3050 (2)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Begin</th>
<th>Fall</th>
<th>Winter Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>EDUC 3010 (3)</td>
<td>EDUC 3810 (4)</td>
</tr>
<tr>
<td>EDUC 3120 (3)</td>
<td>EDUC 4810 (8)</td>
<td>*Elective (4)</td>
</tr>
<tr>
<td>EDUC 3130 (3)</td>
<td>*EDUC 4840 (3)</td>
<td>or</td>
</tr>
<tr>
<td>EDUC 3250 (3)</td>
<td></td>
<td>*EDUC 4120 (3)</td>
</tr>
<tr>
<td>*EDUC 3050 (2)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Single Subject Credentials: (preliminary credential)

The Single Subject Credential Program at the College is field centered and performance based. It integrates theory and practice, provides an on-going experience within a school setting, and focuses on the attainment of a set of knowledge- and skill-related objectives which characterizes effective teaching.

2.1 Enrollments. Students will register in the following sequence of courses:

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter Term</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 4851 (6)</td>
<td>EDUC 4152 (4)</td>
<td>EDUC 4852 (6)</td>
</tr>
<tr>
<td>EDUC 4151 (2)</td>
<td></td>
<td>EDUC 4153 (2)</td>
</tr>
<tr>
<td>EDUC 4161 (2)</td>
<td></td>
<td>EDUC 4162 (2)</td>
</tr>
<tr>
<td>EDUC 3470 (3)</td>
<td></td>
<td>*EDUC 4840 (3)</td>
</tr>
</tbody>
</table>

*Required professional courses for the clear credential.
2.2 Pre-Program Courses.

In order to complete requirements most efficiently, students may elect to complete the following courses prior to acceptance into the program.

EDUC 3470. Reading in the Secondary Schools (3)  
*EDUC 3050. School Health Programs (2)

In addition, Curriculum & Instruction courses in selected areas, e.g., ENGL 4610, MUS 3370, PHED 3190, SPAN 4510 are recommended.

Additional information on this program may be obtained from the Office of the Division of Education.

V. FIFTH YEAR REQUIREMENTS: (clear credential)

Students may choose to complete either no professional education course work within the four-year baccalaureate program, part of their professional education, or all of their professional education program. All students, however, must complete an approved fifth year totaling 30 semester units, post-B.A./B.S., in order to qualify for the Clear Credential.

1. In order to be recommended for the Clear Multiple Subjects or Single Subject Credential through California State College, Stanislaus, students are required to complete the following course work in Education in addition to the 24 units for the preliminary credential:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 3050. School Health Programs</td>
<td>2</td>
</tr>
<tr>
<td>**EDUC 4120. Diagnostic Techniques of Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 4840. Seminar: Analysis &amp; Strategies of Teaching</td>
<td>3</td>
</tr>
<tr>
<td>Electives, by advisement</td>
<td>22-25</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>30</td>
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</tbody>
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2. For students with a preliminary credential an approved plan of studies for the fifth year must be filed with the fifth year credentials adviser in the Division of Education prior to undertaking the course work.

*Required for the clear credential.

**Multiple Subject Credential only.
MASTER OF ARTS IN EDUCATION

AND

ADVANCED CREDENTIALS

The Master of Arts in Education is designed to meet the professional growth needs of school professionals. Course work is offered late afternoons and evenings. Concurrent programming is offered for the Administrative Services, School Counseling, and Reading Specialist advanced credentials. The masters program may be completed in one of three areas of specialization: (1) Curriculum & Instruction (Elementary, Secondary, and Early Childhood Education); (2) Administration; and (3) School Counseling. The program requires each candidate to complete one of the following: a thesis or project, three approved masters papers, or a comprehensive examination. Each M.A. student is also required to pass an oral examination. Programming worksheets which outline required and elective course work for each specialization may be obtained in the Division of Education Office.

CATEGORIES OF ENROLLMENT:

There are four categories of enrollments related to people who hold baccalaureate degrees:

1. Post-B.A.: Unclassified
   Students who wish to enroll in the College, who need to be advised through the Division of Education, and who have not established any degree or credential objectives.

2. Post-B.A.: Classified Credential
   Students holding preliminary or partial credentials who wish to complete requirements for clear or life credentials and who are not M.A. candidates.

3. Graduate: Conditionally Classified
   Students who have completed all application procedures for the M.A. in Education and/or an advanced service or specialist credential, and who are working on the first nine semester units of their program.

4. Graduate: Classified
   Students who have completed at least nine semester units in a California State College, Stanislaus, M.A. in Education Program and/or an advanced service or specialist credential program and who have been reviewed and advanced by the Graduate Committee of the Division of Education.
APPLICATION PROCESS: POST B.A. STUDENT.

Students who hold a preliminary or partial credential of any type or students wishing to take one or more electives for personal/professional growth must complete the following steps:

1. Apply to the College, either as Post-B.A.: Unclassified (Part B, 11, no degree) or Post-B.A.: Classified Credential (Part B, 11, credential only) student; forms are available from the Office of Admissions.

2. Apply to the Post-B.A. adviser in the Division of Education. Application procedures include:
   2.1 Submit copies of all credential related documents, e.g., the credential, any evaluation from the state, etc. related to your partial or preliminary credential.
   2.2 Submit transcripts of all college course work and any fifth year program from prior institutions.

3. Complete a plan of study with the Post-B.A. adviser.

APPLICATION PROCESS: GRADUATE STUDENTS

Students who plan to enroll in a graduate program in Administrative Services, Pupil Personnel Services, Curriculum & Instruction, or Reading Specialist through the Division of Education must complete the following steps:

1. Apply to the College for admission. (Part B, 11, Masters degree only, M.A. and credential, credential only). Forms are available from the Office of Admissions.

2. Apply to the graduate program of the Division of Education. Forms are available from the Graduate Coordinator.

Application procedures include:

2.1 Declaration of Intent (Form MA-1)
2.2 Transcripts verifying baccalaureate degree and all course work beyond.
2.3 Vita/Resume
2.4 Two letters of recommendation, or placement file.
2.5 A recent snapshot
2.6 GRE Scores (Verbal, Quantitative and Advanced Education)*

DEADLINE: So that the application can be reviewed, all materials, GRE scores, etc., must be submitted to the Graduate Committee not later than the first day of

* A composite score of 1300 points is required. Applicants with less than this total may submit evidence of compensating strengths for consideration by the Graduate Committee.
registration prior to the semester during which the student wishes to start classes. (April 26, 1976 - Fall 1976 start. November 11, 1976 - Spring 1977 start.)

3. After review and acceptance by the Graduate Committee, the candidate is accepted as a Graduate: Conditionally Classified student and assigned an adviser. A program is planned with the assigned adviser and course work up to nine units is pursued.

3.1 During this period, students working towards the Administrative Services or Pupil Personnel: School Counseling Credentials will be interviewed by the appropriate Advanced Credential Selection Committee. See the Coordinator of the appropriate credential for further details.

3.2 Following action by the Advanced Credential Selection Committee for those candidates working toward a credential and with a 3.0 GPA in the first nine units, the student should apply for Graduate: Classified standing through their adviser.

4. When advanced to Graduate: Classified status by the Graduate Committee of the Division of Education, the remainder of course work and other degree/credential requirements are completed.

REQUIREMENTS FOR DEGREES/CREDENTIALS

Students planning to complete both M.A. and advanced credential requirements should plan their programs carefully with their advisers.

In addition to the written and oral requirements, the student is required to complete at least 30 units of required and elective units for the degree. Further, students must maintain a minimum GPA of 3.0 in all graduate work in the program. Listed below are course requirements for each of the three areas of specialization in the M.A. program. Students seeking advanced credentials normally will elect credential requirements to complete the M.A. program. Students seeking the M.A. only may elect more broadly. It should be noted, however, that the specific course requirements for the individual student will be determined through advisement.

PROGRAMS

READING SPECIALIST CREDENTIAL

Elementary or secondary experience under standard certification and intensive and extensive experience in reading at the K-12 level are required for admission to this program. The program totals 30 hours of course work and field experience. See Division of Education Office and the Reading Specialist Credential Coordinator for
admission information and advisement. The Masters degree, in Curriculum and Instruction-Reading, is optional.

Courses required:

(1) EDUC 4050. Reading Skills: Assessment & Evaluation
(3) EDUC 3250. Reading in the Elementary School
   or EDUC 3470. Reading in the Secondary School
(4) EDUC 4100. Improving Reading: K-12
(2) EDUC 4240. Reading Instruction in the Primary Grades
(2) EDUC 4250. Reading Instruction in the Intermediate Grades
(3) EDUC 5250. Reading Diagnosis and Remediation
(3) EDUC 5350. Research & Trends in Reading & Language Arts
(3)+(3) EDUC 5910. Reading Improvement Center
(3) SPCH 3000. Phonetics
(3) ENGL 4620. Children's Literature

30 units

PUPIL PERSONNEL SERVICES CREDENTIAL: SCHOOL COUNSELING

This program is particularly designed for teachers, and teacher training course work is part of the program. Requirements include Standard Elementary or Secondary certification, the M.A. in Education in School Counseling, a minimum of 64 postbaccalaureate semester hours, and counseling field experiences at the elementary and secondary levels, as well as career guidance centers.

Undergraduates who complete Psychology course work and teaching credential requirements before earning the B.A. may complete the M.A. and School Counseling Program in less than 40 post-B.A. hours. See the Division of Education and the School Counseling Credential Coordinator for admission information and advisement.

The course work to meet Ryan requirements (in addition to the minimum 24 hours Multiple Subjects or Single Subject Credential prerequisite program) is as follows:

PSYC 3790. Introduction to Counseling Theory (3)
PSYC 4770. Introduction to Counseling Techniques (3)
EDUC 5010. Education in Society (3)
EDUC 5050. Methods of Research in Education (3)
EDUC 5060. Theories of Instruction (3)
EDUC 5520. Legal & Financial Aspects of Education (3)
EDUC 5530. Testing in Education (3)
EDUC 5540. Exceptional Children & Youth (3)
EDUC 5570. Counseling & Guidance in Education (2)
EDUC 5600. Family Counseling & Community Resources (3)
EDUC 5610. Educational & Occupational Information (3)
*EDUC 5640. The Counselor (3)
EDUC 5760. Pupil Personnel Services Seminar (2)
EDUC 6940. Field Work: School Counseling (2)+(2)+(2)

*May substitute, by advisement, for PSYC 4770
ADMINISTRATIVE SERVICES CREDENTIAL

The program is designed to prepare students for their initial administrative or supervisory assignments at the Masters level of proficiency. Requirements include 5 years of teaching experience, completion of the M.A., and the competencies included in the courses listed below. See the Administrative Services Credential Coordinator for additional information.

The course work to meet Ryan requirements is as follows:

- EDUC 5010. Education in Society, 3 units
- or EDUC 5040. Philosophy of Education, 2 units
- EDUC 5050. Methods of Research in Education, 3 units
- EDUC 5060. Theories of Instruction, 3 units
- EDUC 5310. Curriculum Planning & Development, 3 units
- EDUC 5500. Organization of Public Education, 2 units
- EDUC 5510. Supervision of Instruction, 3 units
- EDUC 5520. Legal & Financial Aspects of Education, 3 units
- EDUC 5550. Administration of Individual Schools, 2 units
- EDUC 5560. Educational Leadership, 2 units
- EDUC 6940. Field Work - Supervision (2+2), including EDUC 5720: Seminar in School Supervision and Administration (2), 6 units
- EDUC 5990. Thesis/Project (2+2), 4 units

CURRICULUM AND INSTRUCTION

A concentration in Curriculum and Instruction is available for graduate students who wish to study these areas of Education. Emphasis include Elementary, Secondary, or Early Childhood Education. No advanced credentials are directly associated with this concentration. See the Graduate Coordinator for additional information.

The program includes:

- One from: EDUC 5101, 5020, 5030, or 5040.
- Required: EDUC 5050, 5060, 5770, and 9-15 semester units in Curriculum and Instruction
- Electives on advisement, including EDUC 5990

COURSE DESCRIPTIONS

Lower Division

EDUC 1000. Participation in Tutoring (1)

Consideration of the role of the tutor and the teacher in the school. Values and limitations of various learning situations. May be repeated for a total of 3 units. T.B. clearance is required.
EDUC 2000. Introduction to Education (2)

An overview of the field of education and the responsibilities of teaching. Designed for students contemplating entrance into the field of teaching at the elementary, secondary, or college level, and for others who desire a general overview of education in the U.S. Recommended but not required in the credential program. T.B. clearance is required.

EDUC 2950. Selected Topics in Education (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of education. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

EDUC 2970. Selected Topics offered during Winter Term (4)

Upper Division

EDUC 3000. The Instructional Aide (2)

Observation and participation in an educational setting as an instructional or teacher aide; practices related to working with children and youth, especially recommended for students interested in teaching. May be repeated for a total of 4 units credit. Prerequisites: T.B. clearance and consent of instructor.

EDUC 3010. Foundations of Elementary Education (3)

Study of selected sociologically and psychologically based knowledge, skills, and understandings related to teaching in the elementary schools. (Formerly 411 & 412) Prerequisite: Admission to the credential program; EDUC 2000 & 3000 recommended.

EDUC 3020. Foundations of Secondary Education (3)

Study of selected sociologically and psychologically based knowledge, skill, and understandings related to teaching in the secondary schools. Prerequisites: Admission to the credential program and junior or higher standing. EDUC 2000 & 3000 recommended. (Not offered 1976-77)

EDUC 3030. Ethnic Groups in Public Education (2)

Sociological study of selected ethnic groups in American public education; consideration of characteristics, trends, problems and general instructional implications. (Formerly 414) Prerequisite: Junior standing.
EDUC 3050. School Health Programs (2)

Nature and scope of health education as outlined in the Framework for Health Instruction in California Public Schools, K-12, current problems related to individual, family, and community health education. Prerequisites: EDUC 3010 or 3020, and consent of credential adviser.

EDUC 3120. Elementary Curriculum and Instruction I (3)

Introduction to the skill subject of language arts and mathematics. Emphasis on communication skills: speaking, listening, reading, and writing in the multiple subjects classroom. Emphasis given to developing skills for the teaching of mathematics. Prerequisites: Consent of instructor; admission to credential program.

EDUC 3130. Elementary Curriculum and Instruction II (3)

Teaching concepts and applications emphasizing social studies and science in multiple subjects grades instructional planning, demonstrations, and materials based on modern strands and techniques. Prerequisite: EDUC 3010 or equivalent, or consent of credential adviser.

EDUC 3150. The Secondary School Program (3)

Introduction to teaching in single subject classrooms. The purposes of secondary education, scope of the instructional program, current trends and practices. Analysis of educational practices appropriate to culturally different groups. Prerequisites: EDUC 3020 and consent of credential adviser. (Not offered 1976-77)

EDUC 3160. Curriculum and Instruction: Selected Subjects (3)

Preparation for teaching in major and minor fields; analysis of current trends and practices. Review of courses of study and instructional materials; use of instructional techniques and evaluation. Prerequisites: EDUC 3020 and consent of credential adviser. (Not offered 1976-77)

EDUC 3190. Curriculum and Instruction: Physical Education (3)

Preparation for teaching physical education in the single subject classroom. Current trends and practices, instructional materials and techniques. Prerequisite: EDUC 3020 or equivalent, consent of credential adviser, or teaching experience. (Same as PHED 3190)
EDUC 3200. Curriculum and Instruction: English (3)

Contemporary trends in English education. Curriculum development, selection, and organization of materials and procedures for the single subject classroom. Field observations. (Formerly 453) Prerequisite: Consent of credential adviser or teaching experience. (Same as ENGL 4610)

EDUC 3220. Curriculum and Instruction: Music (3)

Contemporary trends in music education in the secondary school. Curriculum development, selection and organization of materials, teaching techniques. Prerequisites: Consent of credential adviser and instructor. (Same as MUS 3370)

EDUC 3250. Reading Instruction in the Elementary School (3)

Includes an understanding of the principles and practices of reading (K-6) and its relation to the language arts; various approaches to reading; development of reading lessons; word analysis skills, including phonics; manipulative aids in reading. (Formerly 425) Prerequisite: Consent of credential adviser.

EDUC 3360. Instructional Media (2)

Use of libraries, instructional materials centers, and audiovisual materials and equipment. Preparation and evaluation of instructional materials. (Formerly 436) Prerequisite: Admittance to credential program or teaching experience.

EDUC 3470. Reading in Secondary Schools (3)

Selection and organization of materials; instructional procedures for the developmental reading programs (7-12), reading and the content subjects; analysis of research concerning reading needs. (Formerly 447) Prerequisite: Admission to credential program, or consent of instructor.

EDUC 3810. Elementary School Student Teaching I (4)

Supervised observation-participation and student teaching in public elementary school settings. Includes a weekly on-campus meeting dealing with legally required instruction in elementary schools, the structure of public education, and student teaching problems. CR or NC grade is given. (Formerly 441) Prerequisites: EDUC 3010 or equivalent, and consent of credential adviser.

EDUC 3811. Multiple Subject Credential Student Teaching (8)

Supervised student teaching in multiple subject classrooms. Includes weekly on-campus seminars. Restricted to Special Education Credential candidates. EDUC 4870 or 4 additional units of student teaching must be earned before recommendation to the Preliminary Credential. Prerequisite: Elementary Coordinator's approval.
EDUC 3820. Secondary School Student Teaching I (4)
Supervised observation-participation and student teaching in public secondary school settings. Includes a weekly seminar dealing with methodology, materials of instruction, and problems encountered in student teaching experiences. CR or NC grade is given. (Not offered 1976-77)

EDUC 4000. The Counselor Aide (2)
The role of the counselor's assistant in the public schools for students who desire an introductory experience in counseling under professional supervision. A regular assignment at times convenient to the student as a counselor aide. Medical clearance required. Prerequisites: Upper division or graduate standing, and consent of instructor.

EDUC 4050. Reading Skills Assessment (1)
Evaluation of student's capabilities in the area of reading instruction. Designed only for those interested in the Reading Specialist Credential. Prerequisites: One full year of credentialed teaching including the teaching of reading, and consent of instructor.

EDUC 4100. Improving Reading: Grades K-12 (4)
Teaching of analysis of children's reading patterns, individualizing, grouping, production, and use of materials in skills development, correlation of phonics as part of reading developmental program. Includes 50 hours of directed field experiences in reading. Prerequisites: EDUC 3250 or equivalent, or consent of instructor.

EDUC 4120. Seminar: Diagnostic Teaching (3)
Methods of diagnosing student difficulties and prescribing remediation in terms of instruction and curriculum. Performance-based instruction evaluation. Prerequisite: EDUC 4810 or 4820, or consent of credential adviser.

EDUC 4151. Secondary Education Seminar I (2)
While engaged in an accompanying Practicum (EDUC 4851), the student begins the study of competency-based instruction, theory and knowledge of methodology, and a variety of processes of instruction which focus on the individual learner in the secondary school. Daily participation in the field and attendance at regular scheduled seminar sessions required for completion. Prerequisites: Admission to CSCS Secondary Teacher Education Program and concurrent enrollment in EDUC 4851 and 4161.
EDUC 4152. Secondary Education Seminar II (4)

A continuation of EDUC 4151, the second segment of the study of competency-based instruction, theory and knowledge of methodology, and a variety of instructional processes. Within this part of the program, there is a transition from a focus on the individual learner and small groups of learners to a focus on large groups of students in classroom/instructional settings in the secondary school. Daily participation in the field and attendance at regularly scheduled seminar sessions required for completion. Prerequisites: Successful completion of EDUC 4851, 4151, and 4161.

EDUC 4153. Secondary Education Seminar III (2)

Continuation of EDUC 4152. While engaged in an accompanying Practicum (EDUC 4852), the student completes the third segment of the study of competency-based instruction, theory and knowledge of methodology, and a variety of processes of instruction which focus on large groups of learners in secondary school settings. Daily participation in the field and attendance at regularly scheduled seminar sessions required for completion. Prerequisites: Successful completion of EDUC 4851, 4151, 4152, and 4161. Concurrent enrollment in EDUC 4852 and 4162.

EDUC 4161. Single Subject Instruction I (2)

Introduction to teaching in single subject instructional settings in the secondary school. Attention will be given to study of theory and methodology in the student's single subject area; to the study of the scope and sequence of the single subject area as part of the total school curriculum; to analysis of current trends and practices in teaching the single subject; to review of courses of study and instructional materials; to use of instructional techniques; to analysis of practices appropriate to different types of secondary students; to evaluation of student learning in single subject areas. Prerequisites: Admission to CSCS Secondary Teacher Education Program and concurrent enrollment in EDUC 4851 and 4151.

EDUC 4162. Single Subject Instruction II (2)

Continuation of EDUC 4161, teaching in single subject instructional settings in the secondary school; increased attention given to teaching single subjects to large groups of secondary students. This segment of the program will be directed by specialists from appropriate academic areas of the College. Prerequisites: Successful completion of EDUC 4851, 4151, 4152, and 4161; concurrent enrollment in EDUC 4852 and 4162.

EDUC 4200. Teaching the Culturally Different (3)

Principles of adapting school instructional materials and programs to the particular needs and interests of children of minority ethnic groups. Identification of suggested teaching competencies. Includes selected field experiences. (Formerly 422). Prerequisite: Upper division standing.
EDUC 4210. Outdoor Education (2)

Introduction to outdoor teacher education, with appropriate teaching procedures and instructional materials. Includes one weekend directed outdoor school field experience. (Formerly 434) Prerequisite: One curriculum course.

EDUC 4230. Principles of Early Childhood Education (3)

An analysis of the early childhood education program from its beginning to today. An overview of the relationships of the school, the child, and the home. Prerequisite: Consent of instructor.

EDUC 4240. Reading Instruction in the Primary Grades (2)

Emphasis on all aspects of reading readiness, including methods and materials; techniques of beginning reading, including language experience. (Formerly 437) Prerequisite: EDUC 3250 or 4100 or equivalent, or consent of instructor.

EDUC 4250. Reading Instruction in the Intermediate Grades (2)

Emphasis on reading to learn, particularly reading-study skills; individualized instruction; extension of reading concepts. (Formerly 438) Prerequisite: EDUC 3250 or 4100 or equivalent, or consent of instructor.

EDUC 4260. Improving Elementary Social Studies (3)

Current practices, trends, and concepts in today's elementary social studies. Planning, developing, and evaluating group and individualized programs. Prerequisite: Teaching credential or consent of credential adviser.

EDUC 4270. Improving Elementary Language Arts (3)

Current practices, trends and concepts in today's elementary language arts. Planning, developing and evaluating group and individualized programs. Prerequisite: Teaching credential or consent of credential adviser.

EDUC 4280. Improving Elementary Mathematics (3)

Current practices, trends and concepts in today's elementary mathematics. Planning, developing and evaluating group and individualized programs. Prerequisite: Teaching credential or consent of credential adviser.

EDUC 4290. Improving Elementary Science (3)

Current practices, trends and concepts in today's elementary science. Planning, developing and evaluating group and individualized programs. Prerequisite: Teaching credential or consent of credential adviser.
EDUC 4300. Health and P.E. in Elementary Schools (2)

Purposes, materials, activities, and techniques applicable in elementary school health and physical education. Prerequisite: EDUC 3010 or equivalent, or consent of instructor.

EDUC 4310. Observation-Participation and Curriculum and Instruction in Special Education (4)

Introduction to teaching children with disabilities; emphasis upon directed observation-participation field work. Introduction to assessment, evaluation and prescription, theory, and practice. Prerequisites: Admission to Credential Program and consent of special education adviser.

EDUC 4320. Curriculum and Instruction: Learning Handicapped (4)

Advanced concepts, strategies programs, issues, and research in the teaching of learning handicapped children. Working with special education students in various types of classrooms. Prerequisites: EDUC 3811, 4310, or 4820, and consent of appropriate education adviser.

EDUC 4810. Elementary School Student Teaching II (8)

Supervised observation, participation, and student teaching in public elementary school settings. Includes a weekly on-campus seminar meeting dealing with professional ethics and activities, use of audio-visual equipment, and student teaching problems. CR or NC grade is given. (Formerly 442) Prerequisites: EDUC 3810 and consent of adviser.

EDUC 4820. Secondary School Student Teaching II (8)

Supervised observation-participation and student teaching in public secondary schools. Includes weekly seminars dealing with instructional evaluation and problems encountered in student teaching experiences. CR or NC grade is given. (Formerly 461) Prerequisites: EDUC 3820 or equivalent, and consent of credential adviser. (Not offered 1976-77)

EDUC 4830. Student Teaching, Outdoor Education (2)

Directed observation-participation and student teaching of sixth graders for one school week out-of-doors at a selected campsite; includes on-campus pre-outdoor and post-outdoor teaching meetings. (Formerly 444) Prerequisites: EDUC 4210 and consent of credential adviser.

EDUC 4840. Seminar: Analysis and Strategies of Teaching (3)

Analytical methods used to study the instructional process. Investigation theories and methods in instructional analysis. Emphasis on strategies of teaching. Prerequisite: EDUC 4810 or 4851 or equivalent, or consent of credential adviser.
EDUC 4851. Field Practicum: Secondary Education I (6)

First segment of intensive field-site sequence of experiences which focus on working with an individual and small groups of secondary students in both a junior and a senior high school within a single school district. Daily participation in the field and adherence to the public school calendar required for completion. Observation and supervision of the college student is provided jointly by district and CSCS personnel. Prerequisites: Admission to CSCS Secondary Teacher Education Program and concurrent enrollment in EDUC 4151 and 4161.

EDUC 4852. Field Practicum: Secondary Education II (6)

A continuation of EDUC 4851. The second segment of an intensive field-site sequence of experiences which focus on working with large groups of secondary students in classroom/instructional settings in both a junior and a senior high school within a single school district. Daily participation in the field and adherence to the public school calendar required for completion. Observation and supervision of the college student is provided jointly by district and CSCS personnel. Prerequisites: Successful completion of EDUC 4851, 4151, 4152, and 4161; and concurrent enrollment in EDUC 4153 and 4162.

EDUC 4860. Secondary School Student Teaching (12)

Supervised observation-participation and student teaching in public secondary school settings. Includes a weekly seminar dealing with methodology, materials of instruction, and problems encountered in student teaching. CR or NC grade is given. Prerequisite: Consent of credential adviser. (Not offered 1976-77)

EDUC 4870. Student Teaching: Learning Handicapped (8)

Supervised student teaching in the Learning Handicapped special classroom teaching. Weekly seminars. Prerequisites: EDUC 4320 and consent of credential adviser.

EDUC 4950. Selected Topics in Education (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in education. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

EDUC 4970. Selected Topics offered during Winter Term (4)

EDUC 4980. Individual Study (1-4)

For qualified undergraduate students in need of specialized study not available through regular programs. Request for individual study must be presented to the chairman of the Division of Education prior to registration. May be repeated for a total of 6 units. Prerequisites: Divisional approval and consent of instructor.
EDUC 5010. Education in Society (3)

Study of social forces influencing the educative process, the curriculum and institutional and professional roles in American public education. Analysis of characteristics, and problems of ethnic groups in school and society. Prerequisites: Post-B.A.: Classified Credential or Graduate: Conditionally Classified standing, and consent of adviser.

EDUC 5020. History of Education (2)

History of education, western and United States, emphasizing the use of historical data and methods in interpreting problems and issues in public education. Prerequisites: EDUC 3010 or 3020 or equivalent, and consent of adviser. Teaching experience recommended.

EDUC 5030. Comparative Education (2)

Study of representative national educational programs, emphasis on the political, social, and economic determinants, and contemporary issues and trends. Prerequisites: EDUC 3010 or 3020 or equivalent, and consent of adviser. Teaching experience recommended.

EDUC 5040. Philosophy of Education (2)

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. Prerequisites: Post-B.A.: Classified Credential, or Graduate: Conditionally Classified Standing, and consent of adviser. Teaching experience recommended.

EDUC 5050. Methods of Research in Education (3)

Application of methods of research to problems in education. Emphasis on research methodology of the social and behavioral sciences. Prerequisites: Consent of instructor and Graduate: Classified Standing.

EDUC 5060. Theories of Instruction (3)

Analysis and evaluation of instructional theories as they apply to the classroom. Study of human learning as applied in the public schools. Prerequisites: Consent of instructor and Graduate: Classified Standing.

EDUC 5230. Curriculum in Early Childhood (3)

A study of early childhood curriculum class organization, methods, and materials. Prerequisites: EDUC 3010 and 4230 or equivalent and consent of adviser.
EDUC 5250. Reading Diagnosis and Remediation (3)

Understanding and correcting reading difficulties; use of procedures in preventing reading retardation; selecting and developing materials; making use of informal inventories; critiquing clinical and corrective techniques; analysis of research in these two areas. (Formerly 520) Prerequisites: EDUC 3250 or 4100, teaching experience and consent of adviser.

EDUC 5300. Individualizing Instruction (2)

Developing instructional plans, instructional materials, and learning strategies to implement individualized instruction. Analysis and evaluation of individualized systems. Prerequisites: Teaching experience and consent of adviser.

EDUC 5310. Curriculum Planning and Development (3)

Analysis of models in curriculum development; systematic planning for curriculum improvement; behavioral objectives. (Formerly 564) Prerequisites: Teaching experience and consent of adviser.

EDUC 5320. New Developments in Education (2)

Evaluation of new developments in elementary and secondary education; philosophical bases, organizational structure, curriculum innovations, instructional materials and methodology. (Formerly 587) Prerequisites: Teaching experience and consent of adviser.

EDUC 5330. Research and Trends in Math, Science, and Social Studies, K-12 (3)

Analysis and evaluation of K-12 curriculum with emphasis on math, science, and social studies; selected topics for extensive and intensive study. Prerequisites: EDUC 3120, 3130, or equivalent curriculum course work at the 4000 or 5000 level; and consent of adviser.

EDUC 5350. Research and Trends in Reading and Language Arts K-12 (3)

Review of research literature in reading and language arts; in-depth analysis of one or more related topics. Evaluations of trends. Prerequisites: EDUC 3250 or 3470 and consent of adviser.

EDUC 5500. Organization of Public Education (2)

Study of organizational concepts and practices in the public schools; legal bases for schools; financial planning and budget systems. Analysis of administrative theory. (Formerly 561) Prerequisites: Teaching experience and consent of adviser.

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EDUC 5510. Supervision of Instruction (3)

Techniques and practices used in school supervision; selection, placement, and evaluation of school personnel; analysis of personnel administration. (Formerly 562) Prerequisites: Teaching experience and consent of adviser.

EDUC 5520. Legal and Financial Aspects of Education (3)

Legal principles related to education as defined by laws and judicial interpretations, with special reference to the Education Code of California. Introduction to financing and budgeting systems. (Formerly 580) Prerequisites: Consent of instructor and adviser.

EDUC 5530. Testing in Education (3)

Measurement and evaluation in education; techniques of test construction for classroom and school use; statistical aspects of testing; selection and use of standardized tests with emphasis on a typical student. Introductory course for M.A. and credential programs. (Formerly 575) Prerequisite: Consent of adviser.

EDUC 5540. Exceptional Children and Youth (3)

Physical, intellectual, social and emotional deviations among children and youth; community resources, educational adjustments. (Formerly 576) Prerequisite: Consent of adviser.

EDUC 5550. Administration of Individual Schools (2)

An analysis of personnel processes and utilization of appropriate materials and procedures to promote staff development; an analysis of specific school programs; an exploration of basic principles in administration appropriate for elementary and secondary administration and supervision. Prerequisites: Admittance to the administration credential program and consent of adviser.

EDUC 5560. Educational Leadership (2)

Analysis and practices of leadership skills; a study of various types of leadership, techniques employed in the development of positive relations in the school. (Formerly 563) Prerequisite: Consent of adviser.

EDUC 5570. Counseling and Guidance in Education (2)

Roles function and responsibility of the school counselor. Relationships with school personnel and community agencies. Emphasis upon working with the culturally different student. Theory,
practice and trends. (Formerly EDUC 577) Prerequisites: Teaching experience and consent of adviser.

EDUC 5600. Family Counseling and Community Resources (3)

Dynamics of relationships of family, community, and school; community-wide services; agency-school relationships; family visiting, including conferences, interviews, and referrals. (Formerly 532) Prerequisite: Consent of adviser.

EDUC 5610. Educational and Occupational Information (3)

Sources of occupational information; community and nationwide surveys; job analysis; procedures for relating vocational and self-information. Emphasis on meeting needs for school counselors in the area of career guidance. (Formerly 581) Prerequisite: Consent of adviser.

EDUC 5640. The Counselor (3)

Focus on the person as counselor, the becoming self of the counselor, his personal identity and integrity, and his authentic response to role conflict situations. The course is designed for people who (1) have had successful teaching experience, and (2) are enrolled in a counseling credential program or are practicing counselors, supervisors, or administrators. Prerequisites: Graduate standing and consent of adviser.

EDUC 5720. Seminar in School Supervision and Administration (2)

Case study analysis of practical problems in school administration and supervision. Open to practicing principals, supervisors, consultants, and students nearing completion of the supervision M.A. program. (Formerly 583) Prerequisite: Consent of adviser.

EDUC 5750. Seminar in Reading Research (2)

Investigation and review of research and writings in reading; student must select one topic for in-depth analysis. (Formerly 525) Prerequisites: EDUC 3250 or 3470 or 4100, or equivalent, teaching experience, and consent of adviser.

EDUC 5760. Seminar in Pupil Personnel Services (2)

Current practices in pupil personnel services. Organization and administration of pupil personnel services. Open to practicing personnel and students nearing completion of the M.A. in counseling program. (Formerly 535) Prerequisite: Consent of adviser.
EDUC 5770. Seminar in Elementary and Secondary Education (2)

Analysis and evaluation of interrelationships among content, purposes, organization, policies, and practices in contemporary elementary and secondary schools. Prerequisites: Open to student nearing completion of their graduate program and consent of adviser.

EDUC 5780. Seminar for Student Teaching Supervisors (2)

Seminar in student and beginning teacher supervision; principles and practices. Techniques of performance evaluation. Prerequisites: Clear California teaching credential, teaching experience, and consent of adviser.

EDUC 5910. Field Work: Reading Improvement Center (3)

Study of techniques of reading diagnosis and prescription for selected students. In addition to class sessions, each student will be assigned an elementary pupil with whom to work in the Reading Improvement Center (at least 2 hours per week). May be repeated for a total of 6 units. Prerequisites: EDUC 5250 or equivalent, and consent of instructor.

EDUC 5950. Selected Topics in Education (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in education. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

EDUC 5970. Selected Topics offered during Winter Term (4)

EDUC 5980. Individual Study (1-4)

For classified graduate students in need of advanced and specialized study related to a thesis. Prerequisites: Approval of student's graduate committee and consent of instructor. May be repeated for a total of 6 units.

EDUC 5990. Thesis or Project (2)

This enrollment involves individual consultation in the preparation of a masters thesis or project. May be repeated for a total of 4 units. Prerequisites: EDUC 5050 or equivalent, and approval of student's graduate committee.

EDUC 6940. Field Work - Supervision (2-4)

Actual work experience in the field for which student is seeking credential. Joint supervision by district and college personnel. Prerequisites: Admittance to administration program and consent of adviser.
EDUC 6941. Field Work - School Counseling (2-4)

Actual work experience in the field for which student is seeking credential. Joint supervision by district and college personnel. Prerequisites: Admission to School Counseling Credential Program and consent of adviser.

EDUC 6970. Selected Topics offered during Winter Term (4)

EDUC 6980. Individual Study (1-4)

For qualified graduate students in need of advanced or specialized study. Requests for individual study must be presented to the chairman of Division of Education 6 weeks prior to registration. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.
The Department of English and Foreign Languages offers the degrees: Bachelor of Arts, English; Master of Arts, English; Bachelor of Arts, French; Bachelor of Arts, Spanish; and degree minors in English, French, German, and Spanish. Courses are offered in language, literature, and criticism, and 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 language and literature fulfill college-wide needs regardless of the student's major field, they also provide preparation for various professions. Certain courses are indispensable for a proper grounding in the various programs of the department, but beyond these the student encounters a wide selection of courses during his career.

REQUIREMENT FOR BACHELOR OF ARTS, ENGLISH

English majors are to:

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 33 upper division units; of these, no more than 11 units of CR graded course work may apply toward the major.
4. Complete a minor to be selected in consultation with the major adviser, or complete 18 units of course work in addition to the General Education requirements to be selected in consultation with the major adviser. These units must be taken outside the English program and should be demonstrably relevant to the study of literature and language.
5. Consult with the major adviser during each advising period concerning requirements, changes in curriculum, waivers, etc.
DEGREE MAJOR IN ENGLISH

Prerequisites to the Major:

ENGL 1000. English Composition, 3 units
ENGL 1010. Introduction to Literature, 3 units
ENGL 2010. Critical Approaches to Literature, 3 units

The Major

Students are expected to demonstrate proficiency in Advanced Composition, 3 units
Completion of 30 units in upper division English courses as approved by the major adviser, to include at least one course from each of the areas listed below, 30 units

1. A major author (e.g. Shakespeare, Chaucer, Whitman)
2. A genre study (e.g. The Novel, The Film, The Epic)
3. English literature before 1800
4. English literature after 1800
5. American literature

Total, 33 units

DEGREE MINOR IN ENGLISH

Eighteen units, to include at least 10 upper division units.

Lower Division

ENGL 1000. English Composition, 3 units
ENGL 1010. Introduction to Literature, 3 units

Upper Division

Completion of a minimum of 10 upper division units in English as approved by the minor adviser.

TEACHING CREDENTIALS

English majors interested in multiple subject or single subject credentials are referred to the Education section of the catalog for a description of teaching credential programs.

LIBERAL STUDIES CONCENTRATION IN ENGLISH

ENGL 3000. Advanced Composition, 3 units
Electives in English selected under advisement, to include a minimum of 12 upper division units, 17 units
Total, 20 units
For a student preparing to take the multiple subject credential, the following courses would be particularly appropriate for the concentration. (No course may be double counted for both area requirements and the concentration.)

- ENGL 3010. Creative Writing Workshop, 3 units
- ENGL 3050. Introduction to Cinema, 3 units
- ENGL 3100. Studies in English Literature to 1800, 3 units
- ENGL 3200. Studies in English Literature after 1800, 3 units
- ENGL 3300. Studies in American Literature, 3 units
- ENGL 3400. Studies in Major Authors, 3 units
- ENGL 3500. Genre Studies, 3 units
- ENGL 3700. Studies in Minority Literature, 3 units
- *ENGL 3800. Introduction to Linguistics, 4 units
- *ENGL 3810. Introduction to Historical Linguistics, 3 units
- ENGL 3820. American English Dialects, 3 units
- ENGL 3930. Studies in World Literature in Translation, 2-5 units
- *ENGL 4600. Tutorial Projects in English, 3 units
- *ENGL 4602. Children's Literature, 3 units
- *ENGL 4603. Adolescent Literature, 3 units

**MASTER OF ARTS DEGREE IN ENGLISH**

Applications for admission to the Master of Arts program in English and for advancement to candidacy should be filed in the office of the Department of English and Foreign Languages. Each student may select either the Thesis or the Non-Thesis Programs described below.

Prerequisites for Admission to the General Program:

1. B.A. degree with a major or minor in English
2. Undergraduate GPA of 3.0 in English courses.

**REQUIREMENTS FOR THE MASTER'S DEGREE**

1. Completion of at least 30 units to include the following:
   A. ENGL 5000. Seminar: Graduate Studies in English, 5 units
   B. Minimum of 15 units to be completed from among seminars in the following subject areas: **
      - ENGL 5100. Seminar: Medieval Literature, 4 units
      - ENGL 5200. Seminar: The Renaissance, 4 units
      - ENGL 5300. Seminar: The Enlightenment and 18th Century, 4 units

* These courses cannot apply toward the concentration if used to satisfy Liberal Studies Area D requirements.
** Specific seminar titles will be announced in the Class Schedule.
ENGL 5400. Seminar: The Nineteenth Century, 4 units
ENGL 5500. Seminar: The Twentieth Century, 4 units
ENGL 5600. Seminar: American Literature, 4 units

C. 1. A maximum of five units to be taken in
    ENGL 5990: Thesis.
2. A maximum of ten units of postbaccalaureate,
    4000-level courses, as approved by the graduate
    adviser.

D. Comprehensive examinations:
Candidates must pass a written and an oral examination
covering major figures in English and American
literature.

E. Reading knowledge of an appropriate foreign language
as determined by the Department of English and
Foreign Languages.

REQUIREMENTS FOR THE THESIS PROGRAM:

1. A minimum of 30 units of approved graduate credit.
2. The submission of an approved thesis.
3. A written general literature examination.
4. An oral examination upon the thesis and the written
   examination.

REQUIREMENTS FOR THE NONTHESIS PROGRAM:

1. A minimum of 30 units of approved graduate credit.
2. The submission of two approved seminar papers written in
   two different subject areas.
3. A written general literature examination.
4. An oral examination upon the seminar papers and the
   written examination.

General Prerequisites:

Normally, an undergraduate major or minor in English is
expected for admission to graduate seminars. Consultation with
an English graduate adviser and his approval is required for all
graduate credit courses.

COURSE DESCRIPTIONS

Lower Division

ENGL 1000. English Composition (3)

Directed writing based upon analytical reading of documents
to include: expository prose, fiction, drama, journals.

ENGL 1010. Introduction to Literature (3)

Introduction to literature of various types. Readings in fic-
tion, poetry, and drama. Required for majors and minors in English.
ENGL 1500. Perspectives in Literature (3)

Readings in various world literary masterpieces with emphasis upon their contemporary relevance. Work may be organized according to a theme such as "Man and Society," or "Man and His Myths." For the non-major. (Formerly 215)

ENGL 1501. Perspectives in American Literature (3)

Readings in selected major works of American literature which provide perspectives on dominant themes and ideas in American life. For the non-major.

ENGL 2010. Critical Approaches to Literature (3)

Basic theories, approaches, techniques, and terminology in the study of literature with special emphasis on the study of poetry. Prerequisites: ENGL 1000, 1010, or equivalent.

ENGL 2050. Technical and Report Writing (3)

Principles of technical writing and the composition of technical reports. Directed writing in various technical fields. Recommended for students in the natural sciences and business administration. Prerequisite: ENGL 1000.

ENGL 2950. Selected Topics in English (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in English. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

ENGL 2970. Selected Topics offered during Winter Term (4)

Upper Division

ENGL 3000. Advanced Composition (3)

Advanced expository writing based on analytical reading of selected documents. Prerequisite: ENGL 1000 or equivalent.

ENGL 3020. Journalism (3)

Study of reporting and other journalistic techniques, including practice in gathering, evaluating, and writing the basic types of news stories. Prerequisite: ENGL 1000 or equivalent.

ENGL 3050. Creative Writing (3)

Methods and techniques of various types of writing. Course content may vary from term to term. Offered each semester. Different topics may be taken for a maximum of 9 units. Prerequisite: ENGL 1000 or equivalent.
ENGL 3050. Introduction to Cinema (3)

Study of the cinema and its relationship to contemporary culture. Includes a survey of selected films, critical discussions, and written appraisal of films. (Formerly 424) Prerequisite: Consent of instructor. (Same as DRAM 3050)

ENGL 3100. Studies in English Literature to 1800 (3)

Studies in various aspects of English literature to 1800. Course content may vary from term to term. Typical courses include: Medieval Poetry; The Tradition of Courtly Love; Renaissance Epic Verse; The Literature of Love 1557-1603; Elizabethan and Jacobean Tragedy; Augustan Satire; Women in the Literature of England 1600-1800. Offered each semester. Different titles may be taken for credit under this course number.

ENGL 3200. Studies in English Literature After 1800 (3)

Studies in various aspects of 19th and 20th Century English literature. Course content may vary from term to term. Typical courses include: Major Romantic Poets and Essayists; Victorian Faith and Doubt; Survey of Modern British Poetry. Offered each semester. Different titles may be taken for credit under this course number.

ENGL 3300. Studies in American Literature (3)

Studies in various aspects of American literature. Course content may vary from term to term. Typical courses include: The Realistic American Novel; The Romantic American Novel; Literature of the Lost Generation; The American Renaissance; The Revolution and After. Offered each semester. Different titles may be taken for credit under this course number.

ENGL 3400. Studies in Major Authors (3)

Studies in various major authors in English and American literature. Writers may be studied singly or in pairs. Typical courses include: Shakespeare's Romances; Shakespeare and Renaissance Historiography; Milton's Major Poetry; Chaucer; Dickens and Carlyle; Whitman and Dickinson; James Joyce; D. H. Lawrence. Offered each semester. Different titles may be taken for credit under this course number.

ENGL 3500. Genre Studies (3)

Studies in the various genres. Course content may vary from term to term. Typical courses include: The 18th Century English Novel; The Victorian Novel; Modern Drama; The Modern British Novel. Offered each semester. Different titles may be taken for credit under this course number.
ENGL 3700. Studies in Minority Literature (3)

Studies in the various aspects of literature written by minority groups. Course content may vary from term to term. Typical courses include: Black Classics; Native American Literature; American Jewish Writers. Different titles may be taken for credit under this course number.

ENGL 3800. Introduction to Linguistics (4)

An introduction to the scientific study of language. Topics covered include dialect study, language acquisition, comparative linguistics, and modern theories of language. (Same as ANTH 3800)

ENGL 3810. Introduction to Historical Linguistics (3)

An introduction to the study of how languages change. Primary emphasis will be on the history of the English language from prehistoric times to the present, but other languages will be treated. (Formerly 401)

ENGL 3820. American English Dialects (3)

A study of variation in English. Both regional and social dialects will be covered. Prerequisites: ENGL 3800, 3810, SPCH 3000, or SPCH 4010, or consent of instructor.

ENGL 3830. Introduction to Bilingualism (3)

A course for prospective bilingual teachers. Topics covered will be: What is bilingualism? How can linguistic concepts be applied to bilingualism? What are the factors that hinder or facilitate bilingualism?

ENGL 3840. Language of Primary Age Children (3)

A course that prepares students to deal more effectively with language in the primary grades. The course will include the analysis of actual speech samples of children. Special attention will be given to preparing the students to be able to do independent analysis. Non-standard English will also be discussed.

ENGL 3930. World Literature in Translation (2-5)

Studies in various aspects of world literature in English translation. Course content may vary from term to term. Typical courses include: Arthurian Romances; Goethe and Schiller; Golden Age Masterpieces; Greek and Roman Literature. Offered each semester. Different titles may be taken for credit under this course number. (Same as FREN, GERM, SPAN 3930)
ENGL 4000. Special Study in Major Authors (2-5)

Advanced study of a major author or pair of major authors. Course content may vary from term to term. Different titles may be taken for credit under this course number. Prerequisite: Consent of instructor.

ENGL 4050. Special Study in Genre, Style, Mode (2-5)

Studies in various genres, styles, or modes of literary expression. Course content may vary from term to term. Typical courses include: The Utopian Dream in American Literature; Tragedy; Rhetoric and Literature; Realism in the English Novel. Offered each semester. Different titles may be taken for credit under this course number. Prerequisite: Consent of instructor.

ENGL 4100. Special Study in Medieval Literature (2-5)

Advanced study in medieval literature. Course content may vary from term to term. Typical courses include: Fabliaux; Chaucer's Early Poetry; Critical Approaches to Medieval Literature. Offered at least once every two years. Different titles may be taken for credit under this course number. Prerequisite: Consent of instructor.

ENGL 4200. Special Study in the Renaissance (2-5)

Advanced study in the Renaissance. Course content may vary from term to term. Typical courses include: Caroline Court Poetry; Ben Jonson; Antique Poets Historical; Metaphysical Poetry. Offered each year. Different titles may be taken for credit under this course number. Prerequisite: Consent of instructor.

ENGL 4300. Special Study in the Enlightenment and 18th Century (2-5)

Advanced study in the literature of the Enlightenment and 18th century. Course content may vary from term to term. Typical courses include: Transitional Poets of the Late 18th Century; London and 18th Century Literature; The Age of Skepticism. Offered at least once every two years. Different titles may be taken for credit under this course number. Prerequisite: Consent of instructor.

ENGL 4400. Special Study in the 19th Century (2-5)

Advanced study in the literature of the 19th century. Course content may vary from term to term. Typical courses include: Victorian Ideas; Wordsworth and Coleridge; The American and English Novel; A Study in Contrasts; The Romantic Ode. Different titles may be taken for credit under this course number. Prerequisite: Consent of instructor.
ENGL 4500. Special Study in the 20th Century (2-5)

Advanced study in the literature of the 20th century. Course content may vary from term to term. Typical courses include: Contemporary American Poetry; Currents in Modern European Literature; The Poetry and Criticism of T. S. Eliot; Contemporary British Poetry. Different titles may be taken for credit under this course number. Prerequisite: Consent of instructor.

ENGL 4600; Tutorial Projects in English (3)

An inquiry into the techniques of teaching the reading and writing of the English language. Instruction in the problems involved in tutoring students in English. Prerequisite: Consent of instructor.

ENGL 4602. Children's Literature (3)

Introduction to children's literature: fiction, poetry, drama, fantasy, fairy tales, folklore, and ethnic materials. Analysis of children's literature and investigation of the techniques of teaching literature to children.

ENGL 4603. Adolescent Literature (3)

Introduction to adolescent literature: fiction, poetry, drama. Analysis of the literature and investigation of the techniques of teaching literature to adolescents.

ENGL 4610. Curriculum and Instruction: English (3)

Contemporary trends and problems in English education with emphasis on language arts curriculum development, selection and organization of materials and procedures for the secondary and junior high school. Field observations and contact with local teachers. (Formerly 453. Same as EDUC 3200 and will substitute for EDUC 3160 with consent of credential adviser.) Prerequisite: Consent of instructor.

ENGL 4700. Interdepartmental Study (2-5)

Studies in various interdepartmental topics. Course content may vary from term to term. Typical courses include: Literature of Urban Life; Medieval English Drama: Literary Backgrounds and Contemporary Performance; Myth in Art and Literature; Backgrounds of American Literature; The Political Novel. Courses will be team-taught with other academic departments. Prerequisite: Consent of instructor.

ENGL 4950. Selected Topics in English (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in English. Topics will vary.
Different topics may be taken for credit. Prerequisite: Consent of instructor.

ENGL 4970. Selected Topics offered during Winter Term (4)

ENGL 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

Graduate

ENGL 5000. Graduate Studies in English: Problems and Methodology (5)

Introduction to the graduate study of English with primary focus upon methods of research, bibliography, and the various approaches to the disciplines of literature and criticism.

ENGL 5100. Seminar: Medieval Literature (4)

This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 8 units. Prerequisite: ENGL 5000 or consent of instructor.

ENGL 5200. Seminar: The Renaissance (4)

This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 8 units. Prerequisite: ENGL 5000 or consent of instructor.

ENGL 5300. Seminar: The Enlightenment and 18th Century (4)

This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 8 units. Prerequisite: ENGL 5000 or consent of instructor.

ENGL 5400. Seminar: The Nineteenth Century (4)

This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 8 units. Prerequisite: ENGL 5000 or consent of instructor.
ENGL 5500. Seminar: The 20th Century (4)

This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 8 units. Prerequisite: ENGL 5000 or consent of instructor.

ENGL 5600. Seminar: American Literature (4)

This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 8 units. (Formerly 550) Prerequisite: ENGL 5000 or consent of instructor.

ENGL 5950. Selected Topics in English (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in English. Topics will vary. Different topics may be taken for credit. Prerequisite: ENGL 5000 or consent of instructor.

ENGL 5970. Selected Topics offered during Winter Term (4)

ENGL 5980. Individual Study (1-4)

For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: ENGL 5000 or consent of instructor.

ENGL 5990. Thesis (3-5)
French majors are to:

1. Complete the requirements for Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 24 upper division units; of these no more than 8 units of CR graded course work may apply toward the major.
4. Completion of an academic minor is not required but is strongly recommended for single subject credential candidates.

**DEGREE MAJOR IN FRENCH**

Prerequisites to the Major:

*FREN 1010, 1020. Elementary French I, II, 8 units

The Major

Required courses in the major field:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>FREN 3010, 3020</td>
<td>6</td>
</tr>
<tr>
<td>Advanced French Grammar and Composition I, II</td>
<td></td>
</tr>
<tr>
<td>FREN 3500</td>
<td>3</td>
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<tr>
<td>French Phonetics</td>
<td></td>
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<tr>
<td>FREN 3510</td>
<td>1</td>
</tr>
<tr>
<td>French Conversation</td>
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</tbody>
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Elective courses in the major field:

Two courses from the sequence 3300, 3310, 3320, 3330 6

Upper division elective courses to total not less than 8 units 8

Total 24

**DEGREE MINOR IN FRENCH**

Twenty-six units, to include at least 12 units in upper division, with a minimum of 14 college units.

* A student who can demonstrate equivalent preparation may be exempt from 4 to 14 units of the lower division requirement. Two years of college-level French or the equivalent is required for admission to upper division courses.
**English and Foreign Languages**

**Lower Division**

*FREN 1010, 1020. Elementary French I, II, 8 units


**Upper Division**

FREN 3010, 3030. Advanced French Grammar and Composition I, II, 6 units

One course from the sequence 3300, 3310, 3320, 3330, 3 units

Upper division electives, 3 units

**LIBERAL STUDIES CONCENTRATION IN FRENCH**

<table>
<thead>
<tr>
<th>Units</th>
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<tbody>
<tr>
<td>FREN 3010, 3020. Advanced French Grammar and Composition I, II</td>
</tr>
<tr>
<td>Two courses selected from the following</td>
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<tr>
<td>FREN 3300. Aspects of French Non-Fiction</td>
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<tr>
<td>FREN 3310. Aspects of French Drama</td>
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<tr>
<td>FREN 3320. Aspects of French Poetry</td>
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<tr>
<td>FREN 3330. Aspects of the French Novel</td>
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<tr>
<td>Upper division electives in French by advisement</td>
</tr>
</tbody>
</table>

Total 20-21

**COURSE DESCRIPTIONS**

**Lower Division**

FREN 1010. Elementary French I (4)

First-year French: audio-lingual approach; understanding, speaking, reading, and writing. (Formerly 101, 102)

FREN 1020. Elementary French II (4)

Continuation of FREN 1010. (Formerly 102, 103) Prerequisite: FREN 1010 or equivalent, or consent of instructor.

FREN 2010. Intermediate French I (3)

Second-year French, emphasizing the audio-lingual approach. Extensive review of the morphology and syntax of the language. (Formerly 201, 202) Prerequisite: FREN 1020 or equivalent, or consent of instructor.

*A student who can demonstrate equivalent preparation may be exempt from 4 to 14 units of the lower division requirement. Two years of college-level French or the equivalent is required for admission to upper division courses.
FREN 2020. Intermediate French II (3)

Continuation of FREN 2010. (Formerly 202, 203) Prerequisite: FREN 2010 or equivalent, or consent of instructor.

FREN 2950. Selected Topics in French (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in French. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

FREN 2970. Selected Topics offered during Winter Term (4)

Upper Division

FREN 3010. Advanced French Grammar and Composition I (3)

Oral and written practice in French, syntactical analysis, written and oral composition, and supplementary reading. Taught in French. (Formerly 301, 302) Prerequisite: FREN 2020 or equivalent, or consent of instructor.

FREN 3020. Advanced French Grammar and Composition II (3)

Continuation of FREN 3010. (Formerly 302, 303) Prerequisite: FREN 3010 or equivalent, or consent of instructor.

FREN 3300. Aspects of French Non-Fiction (3)

A course dealing with the development and evolution of French non-fiction, particularly essays, from Montaigne to the present. Conducted in French. Prerequisite: FREN 2020 or equivalent, or consent of instructor.

FREN 3310. Aspects of French Drama (3)

A course dealing with selected French dramatic works, from the Middle Ages to the present. Conducted in French. Prerequisite: FREN 2020 or equivalent, or consent of instructor.

FREN 3320. Aspects of French Poetry (3)

A course dealing with the development and evolution of French poetic forms, from the Middle Ages to the present. Conducted in French. Prerequisite: FREN 2020 or equivalent, or consent of instructor.

FREN 3330. Aspects of the French Novel (3)

A course dealing with the development and evolution of the French novel, from its beginnings to the present. Prerequisite: FREN 2020 or equivalent, or consent of instructor.
FREN 3340. Aspects Du Conte Français (3)

A detailed study of the short story genre in French literature, from the earliest examples (the fabliaux) to the present (Vercors, Camus, Sartre). The bulk of the course will deal with the great 19th-century conteurs, Flaubert, Daudet, and Maupassant. Class conducted in French. Prerequisite: FREN 2020 or consent of instructor.

FREN 3500. French Phonetics (3)

A detailed study of modern French phonology and its representation, including work on dialectal differences as well as analysis of contrasts with English. Prerequisite: FREN 2020 or equivalent, or consent of instructor.

FREN 3510. French Conversation (1)

A course designed for advanced students. Class work will include discussions of current (cultural) events and/or other topics of common interest. Course may be repeated once for credit. (Laboratory, 2 hours) (Formerly 400) Prerequisite: FREN 2020 or equivalent, or consent of instructor.

FREN 3930. French Literature in Translation (2-5)

Studies in various aspects of French literature in English translation. Course content may vary from term to term. Typical courses include: Arthurian Romances; French Satirical Literature; French Existential Literature. Different titles may be taken for credit under this course number. (Same as ENGL 3930)

FREN 4070. French Classicism (3)

A study of the major literary and intellectual developments in France during the seventeenth century; an analysis of the development of major genres. (Formerly 425) Prerequisite: FREN 2020 or equivalent, or consent of instructor.

FREN 4080. French Romanticism (3)

Major works of the poetry, drama, and novels of the French Romanticists, beginning with Mme. de Staël and going through Edmond Rostand. (Formerly 428) Prerequisite: FREN 2020 or equivalent, or consent of instructor.

FREN 4090. Modern French Poetry (3)

French poetry from the Parnassians to the present. Study of trends of the poetry from the mid-19th century to the present. (Formerly 427, 429) Prerequisite: FREN 2020 or equivalent, or consent of instructor.
FREN 4100. Modern French Fiction (3)

French novels from the end of the Romantic period to the present, stressing Flaubert, Zola, Proust, Gide, Mauriac, Saint-Exupéry, Camus, Sartre, and the new novelists. (Formerly 428, 429) Prerequisite: FREN 2020 or equivalent, or consent of instructor.

FREN 4810. Linguistics and Language Instruction (3)

An overview of the field of linguistics and its applicability for teaching foreign languages in the secondary schools. Prerequisite: FREN 3020 or consent of instructor.

FREN 4950. Selected Topics in French (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in French. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

FREN 4970. Selected Topics offered during Winter Term (4)

FREN 4980. Individual Study (1-4)

For advanced undergraduate students prepared for independent work, and in need of advanced and specialized study in French. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

FREN 5980. Individual Study (1-4)

For postbaccalaureate students prepared for independent work, and in need of advanced and specialized study in French. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.
GERMAN

DEGREE MINOR IN GERMAN

Twenty-six units, to include at least 12 units in upper division, with a minimum of 14 college units.

Lower Division

*GERM 1010, 1020. Elementary German I, II, 8 units
*GERM 2010, 2020. Intermediate German I, II, 6 units

Upper Division

GERM 3010, 3020. Advanced German Grammar & Composition I, II, 6 units

Additional courses in upper division German, as approved by advisement, to total not less than 6 units.

LIBERAL STUDIES CONCENTRATION IN GERMAN

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>or equivalent</td>
<td>0-6</td>
</tr>
<tr>
<td>GERM 3010. Advanced German Grammar &amp; Composition I</td>
<td>3</td>
</tr>
<tr>
<td>GERM 3110. The German Psyche</td>
<td>3</td>
</tr>
<tr>
<td>GERM 3201. Classics of German Literature</td>
<td>3</td>
</tr>
<tr>
<td>GERM 3210. Modern German Fiction</td>
<td>3</td>
</tr>
<tr>
<td>Upper division electives in German, by advisement</td>
<td>3-8</td>
</tr>
<tr>
<td>Total</td>
<td>20-21</td>
</tr>
</tbody>
</table>

COURSE DESCRIPTIONS

Lower Division

GERM 1010. Elementary German I (4)

First-year German, audio-lingual approach. (Formerly 101, 102)

GERM 1020. Elementary German II (4)

Continuation of GERM 1010. (Formerly 102, 103) Prerequisite: GERM 1010 or equivalent, or consent of instructor.

*A student who can demonstrate equivalent preparation may be exempt from 4 to 14 units of the lower division requirement. Two years of college-level German or the equivalent is required for admission to upper division courses.
GERM 2010. Intermediate German I (3)

Second-year German: intensified review of grammar. Special emphasis will be given to the development of increased skills in the reading, writing, speaking, and understanding of German. (Formerly 201, 202) Prerequisite: One year of college-level German or equivalent, or consent of instructor.

GERM 2020. Intermediate German II (3)

Continuation of GERM 2010. (Formerly 202, 203) Prerequisite: GERM 2010 or equivalent, or consent of instructor.

GERM 2950. Selected Topics in German (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in German. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

GERM 2970. Selected Topics offered during Winter Term (4)

Upper Division

GERM 3010. Advanced German Grammar and Composition I (3)

Oral and written practice in German, syntactical analysis, written and oral composition, and supplementary reading. Prerequisite: The equivalent of two years of college-level German, or consent of instructor.

GERM 3020. Advanced German Grammar and Composition II (3)

Continuation of GERM 3010. Prerequisite: GERM 3010 or equivalent or consent of instructor.

GERM 3110. The German Psyche (3)

An introduction to the German mind as seen through literature, politics, history, religion, music. (Formerly 3100) Prerequisite: The equivalent of two years of college-level German or consent of instructor.

GERM 3201. Classics of German Literature (3)

Major works of German literature from the beginnings to the 19th century, within the context of literary-philosophical movements. Readings include works of: Walter von der Vogelweide, Grimmelshausen, Lessing, Goethe, Schiller, Eichendorff, Kleist, Buchner. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.
GERM 3210. Modern German Fiction (3)

Major works of German literature from the turn of the century to the present. Selected readings will include works of Brecht, Kafka, Mann, Hesse, Grass, Boell. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

GERM 3220. Special Study: Genre (3)

Studies in various genres. Course content may vary from term to term. Typical courses include: The German Theatre; Masterpieces of German Poetry; The Novelle in German Literature. Different titles may be taken for credit under this course number. Prerequisite: Equivalent of two years of college-level German, or consent of instructor.

GERM 3500. German Phonetics (3)

A detailed study of modern German phonology and its representation, including work on dialectical differences as well as analysis of contrasts with English. Prerequisites: The equivalent of one year of college-level German, or consent of instructor.

GERM 3510. German Conversation (1)

Specifically designed to improve listening comprehension and speaking proficiency in German through free conversation, oral reports, and laboratory work. This course may be repeated twice for credit. Prerequisite: The equivalent of two years of college-level German, or consent of instructor.

GERM 3930. German Literature in Translation (2-5)

Studies in various aspects of German literature in English translation. Course content may vary from term to term. Typical courses include: The Age of Goethe; Modern German Fiction in Translation; Modern German Drama. Different titles may be taken for credit under this course number. (Same as ENGL 3930)

GERM 4810. Linguistics and Language Instruction (3)

An overview of the field of linguistics and its applicability for teaching foreign languages in the secondary schools. Prerequisite: GERM 3010 or consent of instructor.

GERM 4950. Selected Topics in German (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in German. Topics vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.
GERM 4970. Selected Topics offered during Winter Term (4)

GERM 4980. Individual Study (1-4)

For advanced undergraduate student prepared for independent work, and in need of advanced and specialized study in German. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

GERM 5980. Individual Study (1-4)

For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

SPANISH

REQUIREMENTS FOR BACHELOR OF ARTS, SPANISH

Spanish majors are to:

1. Complete the requirements for Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 24 upper division units; of these, no more than 8 units of CR graded course work may apply toward the major.
4. Completion of an academic minor is not required but is strongly recommended for single subject credential candidates.

DEGREE MAJOR IN SPANISH

Prerequisites to the Major:

*SPAN 1010, 1020. Elementary Spanish I, II, 8 units

The Major

<table>
<thead>
<tr>
<th>The Major</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 3010, 3020. Advanced Spanish I, II</td>
<td>6</td>
</tr>
<tr>
<td>3 courses from the following: 3200, 3210, 3300, 3310</td>
<td>9</td>
</tr>
<tr>
<td>Additional courses in upper division Spanish, as approved by the major adviser, to total not less than 9 units</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>24</td>
</tr>
</tbody>
</table>

*A student who can demonstrate equivalent preparation may be exempt from 4 to 14 units of the lower division requirement. Two years of college-level Spanish or the equivalent is required for admission to upper division courses.
**DEGREE MINOR IN SPANISH**

Twenty-eight units, to include at least 12 units in upper division, with a minimum of 14 college units.

**Lower Division**

*SPAN 1010, 1020. Elementary Spanish I, II, 8 units

**Upper Division**

SPAN 3010, 3020. Advanced Spanish I, II, 6 units
Additional courses in upper division Spanish, as approved by the department, to total not less than 6 units.

**LIBERAL STUDIES CONCENTRATION IN SPANISH**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 2010, 2020. Intermediate Spanish I, II or equivalent</td>
<td>0-6</td>
</tr>
<tr>
<td>SPAN 3010, 3020. Advanced Spanish I, II</td>
<td>6</td>
</tr>
<tr>
<td>Upper division electives in Spanish by advisement</td>
<td>8-14</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTIONS**

**Lower Division**

SPAN 1010. Elementary Spanish I (4)

First-year Spanish. Audio-lingual approach. (Formerly 101, 102)

SPAN 1020. Elementary Spanish II (4)

Continuation of SPAN 1010. (Formerly 102, 103) Prerequisite: SPAN 1010 or equivalent.

SPAN 2010. Intermediate Spanish I (3)

Second-year Spanish, with emphasis on audio-lingual work in the language laboratory. Includes review of language structure patterns and reading assignments. (Formerly 201, 202) Prerequisite: One year college-level Spanish or equivalent.

*A student who can demonstrate equivalent preparation may be exempt from 4 to 14 units of the lower division requirement. Two years of college-level Spanish or the equivalent is required for admission to upper division courses.*
SPAN 2020. Intermediate Spanish II (3)

Continuation of SPAN 2010. (Formerly 202, 203) Prerequisite: SPAN 2010 or equivalent.

SPAN 2950. Selected Topics in Spanish (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in Spanish. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

SPAN 2970. Selected Topics offered during Winter Term (4)

Upper Division

SPAN 3010. Advanced Spanish I (3)

Oral and written practice of the language through class discussion of selected works, and written compositions about related topics. Required of majors and minors. Prerequisite: The equivalent of two years of college-level Spanish, or consent of instructor.

SPAN 3020. Advanced Spanish II (3)

Continuation of SPAN 3010. Required of majors and minors. Prerequisite: SPAN 3010 or equivalent, or consent of instructor.

SPAN 3200. Literature of Spain I (3)

A study of selected complete works by Spanish writers. Prerequisite: SPAN 3010 or consent of instructor.

SPAN 3210. Literature of Spain II (3)

A study of selected complete works by Spanish writers. Prerequisite: SPAN 3010 or consent of instructor.

SPAN 3300. Literature of Spanish America I (3)

From the beginnings to 1880. (Formerly 330, 331) Prerequisite: SPAN 3010 or consent of instructor.

SPAN 3310. Literature of Spanish America II (3)

From 1880 to the present. (Formerly 331, 332) Prerequisite: SPAN 3010 or consent of instructor.

SPAN 3520. Spanish Conversation (1)

A course designed to provide the participant the opportunity to develop a greater degree of oral spontaneity in the Spanish
English and Foreign Languages

language. This course may be repeated for credit. Prerequisite: SPAN 2020 or equivalent or consent of instructor.

SPAN 3530. Phonology and History of the Spanish Language (3)

A study of the phonological, morphological and syntactical changes of the Spanish language from vulgar Latin to modern times. Also an analysis of modern Spanish phonetics and phonemics with emphasis on contrasts with English. (Formerly 3500, 3510) Prerequisite: SPAN 2020 or equivalent or consent of instructor.

SPAN 3600. History and Civilization of Spain (3)

A brief survey of the history of Spain, its culture and civilization. Prerequisite: SPAN 3010 or consent of instructor.

SPAN 3610. History and Civilization of Spanish America (3)

A survey course of the history and civilization of Spanish America. Prerequisite: SPAN 3010 or consent of instructor.

SPAN 3700. La Literatura Femenina Hispánica (3)

Special study in women writers of the Hispanic World. Course content may vary from term to term: prose, poetry, theater, etc. Conducted in Spanish. Prerequisite: Two years of college-level Spanish or consent of instructor.

SPAN 3800. El cuento hispánico (3)

A course dealing with the development and evolution of short story writing in Spain or Latin America. Conducted in Spanish. Prerequisite: Two years of college Spanish or consent of instructor.

SPAN 3900. Cultura y Literature Chicana (3)

A course dealing with the cultural background of the Chicano. Special emphasis will be given to works (prose, poetry, theatre) written by contemporary Chicano writers. Conducted in Spanish and English. Prerequisite: Student must be bilingual.

SPAN 3930. Spanish Literature in Translation (3)

Studies in various aspects of Spanish literature in English translation. Course content may vary from term to term. Typical courses include: Golden Age Masterpieces; Contemporary Latin American Literature; Spanish Literature, 1900-1936. Different titles may be taken for credit under this course number. (Same as ENGL 3930)
SPAN 4200. El teatro en Espana (3)

A study of Spanish theatre from early times to the present, including the reading of selected plays. Prerequisite: SPAN 3010 or consent of instructor.

SPAN 4240. Cervantes (3)

A study of the works of Cervantes including Don Quijote. Prerequisite: SPAN 3010 or consent of instructor.

SPAN 4250. Prosa Hispanoamericana: Siglos XIX-XX (3)

A study of selected 19th and 20th century Spanish American short stories, essays, and novels. Prerequisite: SPAN 3010 or consent of instructor.

SPAN 4510. Curriculum and Instruction: Spanish (3)

Current practices in modern foreign languages instruction, with emphasis on laboratory procedures and the audio-lingual-visual approach. Prerequisite: Admission to credential program or teaching experience, or consent of instructor. (Same as EDUC 3210)

SPAN 4600. Literatura Mexicana (3)

Authors of Mexico and their works from Cortes to the contemporary period. Prerequisite: SPAN 3010 or consent of instructor.

SPAN 4810. Linguistics and Language Instruction (3)

An overview of the field of linguistics and its applicability for teaching foreign languages in the secondary schools. Prerequisite: SPAN 3020 or consent of instructor.

SPAN 4950. Selected Topics in Spanish (Topics to be specified in Class Schedule) (1-5)

Topics vary each term; different topics may be taken for credit. Prerequisite: SPAN 3010 or consent of instructor.

SPAN 4970. Selected Topics offered during Winter Term (4)

SPAN 4980. Individual Study (1-4)

For students prepared for independent work, and in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

SPAN 5980. Individual Study (1-4)

For postbaccalaureate students needing advanced or specialized study. May be repeated for 6 units. Prerequisite: Consent of instructor.
Environmental Sciences

A Concentration Within the School of Natural Sciences

Within the School of Natural Sciences, a concentration in environmental sciences is offered which is designed to acquaint the student with environmental problems and research in the areas of biological sciences, chemistry, mathematics and physical sciences. The student will complete courses in each of these areas, participate in interdepartmental seminars, and become involved in the study of an environmentally related problem. Courses are required in each of the departments to help the student better understand the nature and diversity of the environment, as well as the broad scope of research and study necessary to deal effectively with environmental problems.

Each student must satisfy the graduation requirements of the college including the completion of a major in biological sciences, chemistry, mathematics, physical science or physics. In addition, the student must complete the requirements for the environmental sciences concentration as outlined. Students majoring in physical science may combine the environmental science concentration requirements with major requirements to complete the physical science degree as outlined in the catalog.

PREREQUISITES TO THE ENVIRONMENTAL SCIENCE CONCENTRATION

Each student in the program is expected to complete these courses or their equivalent:

- BOTY 1050. Introduction to Botany, 4 units
- ZOOL 1050. Introduction to Zoology, 4 units
- CHEM 1100, 1110. Principles of Chemistry I, II, 10 units
- MATH 1600. Statistics, 4 units
  or MATH 3660. Probability & Statistics II, 4 units
- MATH 2000. Introduction to Computers, 3 units
- PHYS 1100, 1110. Basic Physics I, II, 10 units
  or PHYS 2250, 2260. General Physics I, II, 8 units
  and PHYS 2350, 2360. General Physics Lab I, II, 2 units

ENVIRONMENTAL SCIENCE CONCENTRATION

Each student will complete the following course work:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3630. Ecology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2010. Quantitative Analysis &amp; Basic Instrumental Techniques</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1410. Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>
  or MATH 1910. Calculus with Applications I | 3-4  |
  MATH 1420 or MATH 1920 is recommended.
| Course Description                                                                 | Units |
|--------------------------------------------------------------------------------__|______|
| NSCI 4960. Seminar in Environmental Science, 1 unit (two semesters required)    | 2     |
| PHSC 3000. Physical Science of the Environment, 3 units or GEOL 3000. Physical  | 3     |
| and Environmental Geology, 3 units                                             |       |
| BIOL 4980, CHEM 4980, MATH 4980, or PHSC 4980. Individual Study, 4 units       | 4     |
| This study must be on an environmentally related problem which has been selected|       |
| in consultation with the adviser                                               |       |
| Total                                                                           | 20-21 |

Each student should include additional environmental courses in consultation with the adviser.

**COURSE DESCRIPTION**

NSCI 4960. Seminar in Environmental Science (1)

Environmental topics will be presented and discussed by faculty, students, and visiting scientists. May be repeated for a maximum of 4 units. Prerequisite: Upper division standing or consent of the instructor.
Ethnic Studies
Richard L. Luevano, M.A., Co-Director
Delo E. Washington, M.S.W., Co-Director

Ethnic Studies is a multidisciplinary program that coordinates a variety of courses, activities, and projects designated to enhance the understanding of the roles, functions, and life styles of American ethnic minority peoples.

A sequential offering of courses has been made possible through the presentation of courses in existing academic departments and through special interdisciplinary courses presented directly through the ethnic studies program. Special advising schedules of ethnic studies course offerings are made available to advisers and students each semester. Further information may be obtained by consulting directly with the ethnic studies faculty members. Students interested in obtaining a special ethnic studies major can do so by consulting directly with the Director of Ethnic Studies.

DEGREE MINOR IN ETHNIC STUDIES

18 units in the ethnic studies program as approved by the minor adviser, including at least 12 upper division units, distributed as follows:

1. Category I, to include two areas, 6 units
2. Category II-V, 6 units
3. Category V, 6 units

DEGREE MINOR IN CHICANO STUDIES

18 units in the ethnic studies program in Chicano Studies as approved by the minor adviser, including at least 12 upper division units, distributed as follows:

1. Category I, 3-6 units
2. Category II or III, 3 units
3. Category V, 6 units
4. Category II-V, 3-6 units

DEGREE MINOR IN BLACK STUDIES

18 units in the ethnic studies program in Black Studies as approved by the minor adviser, including at least 12 upper division units, distributed as follows:

1. Category I, 3-6 units
2. Category II or III, 3 units
3. Category V, 6 units
4. Category II-V, 3-6 units
LIBERAL STUDIES CONCENTRATION IN ETHNIC STUDIES

Units

Lower Division, one course selected from:

Category I ............................................................. 3

Upper Division, 17 units as approved by the major adviser, to include:

Course work from Categories II-IV ......................... 6-11
Course work from Category V ................................. 6-11
Total ................................................................. 20

The following is a list of the courses that are offered in Asian-American Studies, Black Studies, Chicano Studies and Native American Studies, and may be designated according to the following categories:

Category I
An introduction to the study of the role, function, and life styles of American ethnic groups.

ETHS 2000. Contemporary Black Studies, 3 units
ETHS 2100. Contemporary Chicano Studies, 3 units
ETHS 2200. Contemporary Asian-American Studies, 3 units
ETHS 2300. Contemporary Native-American Studies, 3 units

Category II
A detailed study of the cultural development of ethnic groups in America.

ANTH 3070. Sub-Saharan Africa, 3 units
ANTH 3350. The North American Indian, 3 units
ANTH 3360. The Indians of California and Western North America, 3 units
ANTH 3370. Native Peoples of Mexico, 3 units
ENGL 3700. Studies in Minority Literature, 3 units

Category III
A detailed study of the historical development of each minority group in America.

HIST 3510. Latin America in Colonial Times, 3 units
HIST 3710. Mexican-American History, 3 units
HIST 3750. Afro-American History, 3 units
HIST 3860. Africa Before 1800, 3 units
HIST 3870. Africa, 1800-1945, 3 units
HIST 3880. Contemporary Africa, 1945 to the Present, 3 units
Ethnic Studies

Category IV
A study of the psychological, sociological, economic, educational, and political adjustments necessary for members of each of these groups to function in American society.

EDUC 3030. Ethnic Groups in Public Education, 2 units
EDUC 4200. Teaching the Culturally Different, 3 units
ETHS 4000. Mexican-American Family, 3 units
PSCI 4320. Minority Politics, 3 units
SOCL 3010. Race and Ethnic Relations, 3 units

Category V
A synthesis of knowledge gained in the preceding courses with some introduction of research methodology for the study of each ethnic group.

ETHS 4940. Field Work in Ethnic Studies, 4 units
ETHS 4950. Selected Topics in Ethnic Studies, 1-5 units
ETHS 4960. Seminar in Ethnic Studies, 3 units
ETHS 4970. Winter Term Ethnic Studies Courses, 4 units
ETHS 4980. Individual Study, 1-4 units

TEACHING CREDENTIALS

Students who wish to offer ethnic studies as a subject area for a teaching credential should consult with advisers in both ethnic studies and education to plan an appropriate program of studies.

COURSE DESCRIPTIONS

Lower Division

ETHS 2000. Contemporary Black Studies (3)

A survey of the Black experience, a look at the distinctive Black culture and customs, and an analysis of the various problems of economic, religious, political, psychological, and educational adjustment. Particular emphasis will be placed on problems encountered in the ghetto and White resistance to change in the urban and suburban communities.

ETHS 2100. Contemporary Chicano Studies (3)

A survey of the Chicano experience, a look at the distinctive Chicano culture and customs, and an analysis of the various problems of economic, religious, political, psychological, and educational adjustment. Particular emphasis will be placed on problems encountered in the barrio, the farm labor situation, and the educational complications of bi-linguality.
ETHS 2200. Contemporary Asian-American Studies (3)

A survey of the Asian-American experience, a look at the various Asian-American cultures and customs, and an analysis of the various problems of economic, religious, political, psychological and educational adjustment. Particular emphasis will be placed on inter-ethnic identity, identity crises and contacts among Asian-Americans.

ETHS 2300. Contemporary Native-American Studies (3)

A survey of the Native-American experience, a look at the various Native-American cultures and customs, and an analysis of the various problems of economic, religious, political, psychological, and educational adjustment. Particular emphasis will be placed on problems encountered on the reservations, Bureau of Indian Affairs policies, and the "new Indian."

ETHS 2970. Selected Topics offered during Winter Term (4)

Upper Division

ETHS 4000. Mexican-American Family (3)

Basic sociological structure and functions of the family as a social institution. Application of role theory to the Chicano family as a unit of interacting personalities. Courtship, marriage, and child rearing practices, etc. The relationship of the Chicano family with other institutional factors of the society. Stress is placed on the changing sex role for the Chicano family members. Prerequisite: ETHS 2100.

ETHS 4940. Field Work in Ethnic Studies (4)

Work in ethnic relations performed in a community, an institution, or an agency setting is arranged. Efforts will be made to bridge a gap between the intellectual pursuit of knowledge and its practical application in intergroup contacts.

ETHS 4950. Selected Topics in Ethnic Studies (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of ethnic studies. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

ETHS 4960. Seminar in Ethnic Studies (3)

A synthesis of existing knowledge from ethnic studies material; relating pertinent background information to special independent projects. Prerequisites: Course work in ethnic studies and consent of instructor.
ETHS 4970. Selected Topics offered during Winter Term (4)

ETHS 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.
Geography

Joel Canby, Ph.D., Professor, Chairman
Department of Anthropology/Geography
Melvin H. Aamodt, Ph.D., Professor
Walter Olson, Ph.D., Professor
Leon S. Pitman, Ph.D., Associate Professor
Ida I. Bowers, Ph.D., Assistant Professor

Geography is concerned with the interrelationships between the environmental characteristics of the earth and man's perception and use of them. A major goal of the department is to provide students with a meaningful knowledge of the world's peoples in their different physical settings.

The Department of Anthropology/Geography offers the degree Bachelor of Arts, Geography, as well as courses for a concentration in the liberal studies major, or as one of three fields of interest in the social sciences major. A minor in geography is also available. In addition, its courses are open to all students interested in obtaining a better understanding of the world in which they live.

REQUIREMENTS FOR THE BACHELOR OF ARTS, GEOGRAPHY

Geography majors are to:

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete prerequisites for the major.
3. Complete the major of not less than 24 upper division units as approved by the major adviser. Eight units of Winter Term CR graded course work may apply toward the major.
4. Completion of a minor is recommended but not required.

DEGREE MAJOR IN GEOGRAPHY

Prerequisites to the Major

Required courses in supporting fields:

At least three of the following courses in supporting fields are to be completed prior to graduation. Selection of these courses is to be made in consultation with the major adviser.

ANTH 2060. Introduction to Cultural Anthropology, 3 units
BIOL 2650. Environmental Biology, 2 units
BIOL 3630. Ecology, 4 units
GEOL 2100. Principles of Geology, 3 units and
GEOL 2110. Geology Laboratory, 1 unit
MATH 1600. Statistics, 4 units
MATH 2000. Introduction to Computers, 3 units
SOC1 2030. Research Methods, 4 units
**Geography**

Required courses in the major field:

Two courses as follows:

GEOG 2000. Interaction: Man and the Earth, 3 units
GEOG 2010. Introduction to the Physical Environment, 3 units

Any one of the following:

GEOG 2020. Introduction to Cultural Geography, 3 units
GEOG 2400. World Regional Geography I, 3 units
GEOG 2410. World Regional Geography II, 3 units

**The Major**

A minimum of 24 upper division semester units in geography selected as specified in the following:

A. Any combination of 8 or more units from the following two categories of Geography, but including at least one course from Group 1 and one from Group 2:

1. Topical Human Geography
   GEOG 3020. Human Ecology, 3 units (Formerly 402)
   GEOG 3070. Agricultural Geography, 3 units
   GEOG 3300. Economic Geography, 3 units
   GEOG 4300. Geography of Resource Planning, 3 units
   GEOG 4350. Urban Geography, 4 units (Formerly 335)

2. Topical Physical Geography
   GEOG 3100. Climatology, 3 units
   GEOG 3120. Geomorphology, 3 units
   GEOG 4140. Physiographic Regions of the United States, 3 units

B. Any combination of 6 or more units from the following:

Regional Geography
GEOG 3510. Geography of North America, 4 units
GEOG 3550. Geography of Europe, 3 units
GEOG 3570. Geography of the Soviet Union and its Satellites, 3 units
GEOG 3590. Geography of Asia, 4 units
GEOG 4200. Geography of Developing Areas, 3 units
GEOG 4510. Geography of California, 3 units
GEOG 4610. Historical Geography of the United States, 3 units

C. Six units from the following, of which one course must be either GEOG 3700 or GEOG 4710. Students preparing for a career in teaching are expected to include GEOG 4840. Those preparing for graduate study in geography should take GEOG 4800:
**Geography**

Methodology in Geography  
GEOG 3700. Cartographic Presentation, 3 units  
GEOG 3710. Remote Sensing of the Environment, 2 units  
GEOG 4710. Field Studies, 3 units  
GEOG 4800. Survey of Geographic Thought and Literature, 3 units  
GEOG 4840. Geography and the Earth Sciences for Teachers, 3 units  
GEOG 4960. Senior Seminar, 3 units

D. Upper division electives in geography to make a total of at least 24 units, including those upper division units listed above.

**DEGREE MINOR IN GEOGRAPHY**

Sixteen semester units approved by the minor adviser are required, including at least 12 units in upper division courses. These upper division units must include a minimum of one course from each of the following three categories:

1. Topical Human Geography  
2. Topical Physical Geography  
3. Regional Geography

(See the listing above for courses in each of these categories.)

**LIBERAL STUDIES CONCENTRATION IN GEOGRAPHY**

Liberal Studies majors who wish to take their concentration in geography are to complete a minimum of 20 units, including at least 15 units of upper division courses.

1. Complete one of the following lower division courses:  
   GEOG 2000. Interaction: Man & the Earth, 3 units  
   GEOG 2010. Introduction to the Physical Environment, 3 units  
   GEOG 2020. Introduction to Cultural Geography, 3 units

2. Complete one of the following courses in the methodology of geography:  
   GEOG 3700. Cartographic Presentation, 3 units  
   GEOG 4710. Field Studies, 3 units

3. Complete the following regional course:  
   GEOG 3510. Geography of North America, 4 units

4. Additional units in geography:  
   TOTAL 10

TOTAL 20

255
**Geography**

Course work selection should be based on student's interest and career goals.

It is recommended that students planning on a teaching career include GEOG 4840, Geography and the Earth Sciences for Teachers, in their electives.

**REQUIREMENTS FOR GEOGRAPHY AS A FIELD OF INTEREST IN THE SOCIAL SCIENCES MAJOR**

Students may choose to study geography as part of a Social Sciences major. See Social Sciences, Requirements for the Bachelor of Arts.

**TEACHING CREDENTIALS**

Geography majors interested in multiple subject or single subject credentials are referred to the Education section of the catalog for a description of teaching credential programs.

**COURSE DESCRIPTIONS**

*Lower Division*

GEOG 2000. Interaction: Man and the Earth (3)

A synthesis of basic concepts in human and physical geography. Analysis and description of spatial distributions; patterns of human population and cultures; man's role in changing earth environments.

GEOG 2010. Introduction to the Physical Environment (3)

Analysis of the distribution and character of the major elements of the physical environment, including landforms, climates, soils, vegetation, significance and meaning to man; man's impact on and use of these elements.

GEOG 2020. Introduction to Cultural Geography (3)

Study of the cultural elements of geography such as language, religion, land tenure systems, migrations of people, plants, and animals, dispersals of ideas and techniques, transformations of natural to cultural landscapes; consideration of how man interacts with and modifies his environment.

GEOG 2400. World Regional Geography I (3)

A survey of the major culture regions of the Old World, including Asia, Europe, and Africa, with an emphasis on environment and contemporary economic and cultural conditions. Key
topics to be considered include location, population, political status, the natural environment, type of economy, potentialities, and current problems.

GEOG 2410. World Regional Geography II (3)

A survey of the major culture regions of the New World including North America, Latin America, and the Pacific, with emphasis on environment and contemporary economic and cultural conditions. Key topics to be considered include location, population, political status, the natural environment, type of economy, potentialities, and current problems.

GEOG 2950. Selected Topics in Geography (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of geography. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

GEOG 2950. Selected Topics offered during Winter Term (4)

Upper Division

GEOG 3020. Human Ecology (3)

An analysis of the relationships between the natural environment and man's cultural achievements, with special problems relating to both primitive and modern man. (Formerly 402) Prerequisite: Any 2000-level geography course or consent of instructor.

GEOG 3070. Agricultural Geography (3)

An examination of agricultural systems in the world today and the environmental factors, both physical and cultural, which interact to produce them. (Formerly 407) Prerequisite: GEOG 2010 or equivalent.

GEOG 3100. Climatology (3)

The elements and controls of weather and climate; analysis of climatic regions of the world. Prerequisite: GEOG 2010 or consent of instructor.

GEOG 3120. Geomorphology (3)

Study and interpretation of the earth's landscapes; includes consideration of the processes acting on landforms under diverse climatic conditions. Prerequisite: An introductory course in physical geography or geology or equivalent.
GEOG 3300. Economic Geography (3)

Study of world economic activity from a geographic point of view; systematic analysis of agricultural, mining, and manufacturing patterns in the various regions of the world in relation to their natural and cultural settings. Considers locational determinants of human economic activities. Prerequisite: Any 2000-level geography course or consent of instructor.

GEOG 3510. Geography of North America (4)

A topical and regional survey and analysis of physical and cultural factors responsible for present patterns in land use and settlement in the United States and Canada; considers changes in regional patterns, including agriculture, industry, transportation, urbanization. Prerequisite: Any 2000-level geography course or consent of instructor.

GEOG 3550. Geography of Europe (3)

The regional geography of Europe, exclusive of the Soviet Union, with emphasis on the historical development of present-day patterns. Prerequisite: Any 2000-level geography course or consent of instructor. (Taught alternate years)

GEOG 3570. Geography of the Soviet Union and Its Satellites (3)

A survey of the physical, cultural, and economic landscapes of the Soviet Union and its satellites. Covers the physical features, resources, agriculture, industry, people, potential, and problems of this vast area. Prerequisite: Any 2000-level geography course or consent of instructor. (Taught alternate years)

GEOG 3590. Geography of Asia (4)

A comprehensive survey of the physical, cultural, and economic geography of Asia excluding Asiatic Russia. Prerequisite: Any 2000-level geography course or consent of instructor.

GEOG 3700. Cartographic Presentation (3)

Introduction to thematic cartography; fundamentals of map reading and cartographic portrayal including map design, compilation, drafting, and reproduction. (Lecture, 2 hours; laboratory, 2 hours) Prerequisite: Six units of geography or consent of instructor.

GEOG 3710. Remote Sensing of the Environment (2)

A survey of the essentials of aerial photographic interpretation; the uses of aerial photography and other remote sensing imagery as tools in the comprehension of spatial phenomena.
Geography

Prerequisite: 6 units of geography or consent of instructor. (Taught alternate years)

GEOG 3940. Independent Field Study (1)

Historical geography of the Southern Mother Lode: self-guided field trip. Involves following a prepared itinerary and playing recorded tapes at designated sites. Takes about 2 1/2 days. Student arranges own departure and return dates. Must provide own transportation.

GEOG 4000. Current Trends in Geography (2)

A symposium on geography featuring speakers on their special areas of research, to include current theories and research approaches in geography. (Same as ANTH 4000) Prerequisite: Consent of instructor.

GEOG 4140. Physiographic Regions of the United States (3)

A detailed examination of the physiographic provinces of the U.S. with respect to (1) their structure, (2) the role of climate and vegetation in altering the landform surface, and (3) the resultant regional patterns. (Formerly 455) Prerequisite: GEOG 3120 or consent of instructor. (Taught alternate years)

GEOG 4200. Geography of Developing Areas (3)

Analysis of man-land relationships and physical and cultural distributions pertinent to development. Consideration of the role of geography in solution of development problems. Prerequisite: 6 units in geography. (Taught alternate years)

GEOG 4300. Geography of Resource Planning (3)

A survey of the geography of resource management and regional planning; the development of planning regions; population elements in relation to management and planning; techniques of data collection for resource analysis; case studies from developed and underdeveloped countries. Prerequisite: GEOG 3020 or consent of instructor.

GEOG 4350. Urban Geography (4)

Study of the spatial aspects of the city. Emphasis on the relationship of cities to each other and to the countryside, as well as on the internal structure and spatial dynamics of urban centers. Special consideration given to problems of the urban environment including urban sprawl, water and recreational needs, and controls on land use. Field trips may be required. (Formerly 335) Prerequisite: Any 2000-level geography course or consent of instructor.
GEOG 4510. Geography of California (3)

An interpretive description of the natural environment of the State with an analysis of past and present settlement patterns and current utilization of natural resources. Prerequisite: Any 2000-level course in geography or consent of instructor.

GEOG 4610. Historical Geography of the United States (3)

A study of the evolution of cultural landscapes in the United States. Emphasis on initial and sequential settlement patterns, routes of diffusion and migration, and use of resources in light of cultural traditions. Comparative analysis of regional differences in material folk culture. Prerequisites: Junior standing and consent of instructor. (Taught alternate years)

GEOG 4710. Field Studies (3)

Methods of field observation; techniques of data collection and analysis; investigations of rural and urban land use in the San Joaquin Valley. Prerequisite: 6 units of geography.

GEOG 4800. Survey of Geographic Thought and Literature (3)

A proseminar designed to give majors and minors an awareness of the heritage of academic geography to acquaint them with the breadth of its literature, and to refine their skills in geographical research and writing. Prerequisite: 6 upper division units in geography (may be concurrent). (Taught alternate years)

GEOG 4840. Geography and the Earth Sciences for Teachers (3)

For in-service teachers and teacher trainees who are or will be teaching geographic and earth science concepts at the elementary, high school, or college level; a survey of the concepts, tools, and methods of modern geography and related earth science. Prerequisite: 6 units of geography.

GEOG 4950. Selected Topics in Geography (Topics to be specified in Class Schedule) (1-5)

Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

GEOG 4960. Senior Seminar (3)

Problems on a particular aspect of the field of geography. Topic changes each year offered. Each student will be expected to report on an individual project. Different topics may be taken for a maximum of 6 units. Prerequisite: Consent of instructor.
GEOG 4970. Selected Topics offered during Winter Term (4)

GEOG 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

GEOG 5980. Individual Study (1-4)

Individual study for qualified postbaccalaureate students in need of advanced and specialized study. May be repeated for a total of 6 units.
Health Sciences

Students enrolled at California State College, Stanislaus may prepare themselves for admission to professional schools in medicine, veterinary medicine, dentistry, pharmacy, optometry, and other health professions such as physical therapy. With the appropriate selection of courses they may also qualify to apply for training in a medical laboratory and become certified medical laboratory technicians.

To aid students to organize a program of studies qualifying them for admission to these professional schools, a Health Sciences Advisory Committee has been established. Students should register with the committee as soon as possible by contacting the Dean of the School of Natural Sciences. A committee member will prepare a suggested basic course program to supplement the curriculum outlined by the major adviser.

The Health Sciences Advisory Committee will compile data on each student and prepare a letter of evaluation to be sent at the student's request in support of his applications to professional schools. It is important that the Health Sciences Advisory Committee be contacted as soon as possible (preferably before interview with the major adviser) so that the student can be properly advised. Registration with the Health Sciences Advisory Committee does not commit the student to any particular program or career.

Students especially interested in the areas of medicine, pharmacy, optometry, dentistry, and veterinary medicine are advised to complete, as a minimum, one-year sequences in English Composition (ENGL 1000, 3000), Biological Sciences (ZOOl 1050 and BOTY 1050), Chemistry (CHEM 1100, 1110), and Physics (PHYS 1100, 1110), during their freshman and sophomore years. Mathematics to the level of precalculus (MATH 1050 or 1100) should be attained by this time. Normally dental and medical school admission tests are taken in the spring of the student's junior year with the following additional preparation completed or in progress: CHEM 3010, 3030; and either ZOOL 3130, 3150, or BIOL 3310. MATH 1410 is encouraged as preparation for these examinations also.

Additional recommendations will be provided through advise-ment from this committee and the major adviser.

The college also offers preprofessional course work for areas such as laboratory technology, cytotechnology, nursing, and other paramedical and health related fields.
History

Britten Dean, Ph.D., Professor, Chairman
John E. Caswell, Ph.D., Professor
Curtis R. Grant, Ph.D., Professor
Franklin B. Holder, Ph.D., Professor
John P. Rasmussen, Ph.D., Professor
J. W. Smurr, Ph.D., Professor
David Bentheim Stenzel, Ph.D., Professor
Austin Metumara Ahanotu, Ph.D., Associate Professor
Samuel A. Oppenheim, Ph.D., Associate Professor
Ronald J. VanderMolen, Ph.D., Associate Professor

History provides the general student with a background for studying the humanities or social sciences 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, journalism, and the law, as well as teaching and a variety of civil service functions.

The Department of History offers the degrees Bachelor of Arts, History, and Master of Arts, History. The College also offers the degree Bachelor of Arts, Liberal Studies, with a concentration in History for those seeking a Multiple Subject Credential.

REQUIREMENTS FOR BACHELOR OF ARTS, HISTORY

History majors are to:

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of 30 upper division units.
   No CR units are counted, except for 8 taken in Winter Term.
4. Completion of a minor is not required.

Reading knowledge of a foreign language is desirable for the Bachelor's degree, is required in the Honors Program, and is required for some in the Graduate History programs here and in most other schools.

Prerequisites to the major

Required courses in the major field:

A one-year sequence in American, European, or non-Western history, 6 units

HIST 2900. Library Resources and Bibliographical Control for Historical Research, 2 units

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### History

#### The Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>HIST 3000. Introductory Seminar in History</td>
<td>3</td>
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<tr>
<td></td>
<td>To be taken during the student's first semester as an upper division major</td>
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<tr>
<td>B.</td>
<td>One course in upper division European history from the following list</td>
<td>3-4</td>
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<tr>
<td></td>
<td>*HIST 3120. Ancient Mediterranean World II, 4 units</td>
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<tr>
<td></td>
<td>*HIST 3140. Medieval Europe I, 3 units</td>
<td></td>
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<tr>
<td></td>
<td>*HIST 3150. Medieval Europe II, 3 units</td>
<td></td>
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<tr>
<td></td>
<td>*HIST 3210. Renaissance and Reformation, 3 units</td>
<td></td>
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<td></td>
<td>HIST 3220. Absolutism and Revolution, 3 units</td>
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<td></td>
<td>HIST 3230. Nineteenth Century Europe, 3 units</td>
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<td></td>
<td>HIST 3240. Twentieth Century Europe, 3 units</td>
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<td>C.</td>
<td>One course in upper division American history from the following list</td>
<td>3</td>
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<tr>
<td></td>
<td>HIST 3610. Colonial America, 3 units</td>
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<td>HIST 3620. Ante-Bellum America, 3 units</td>
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<td>HIST 3630. America after the Civil War, 3 units</td>
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<td>HIST 3640. Contemporary America, 3 units</td>
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<td>D.</td>
<td>Two courses in upper division non-Western history from the following list</td>
<td>6-7</td>
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<tr>
<td></td>
<td>*HIST 3110. Ancient Mediterranean World I, 4 units</td>
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<td></td>
<td>*HIST 3510. Latin America in Colonial Times, 3 units</td>
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<td></td>
<td>HIST 3520. Latin American States since Independence, 3 units</td>
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<td></td>
<td>*HIST 3800. East Asia in Traditional Times, 3 units</td>
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<td>HIST 3810. East Asia in the Modern World, 3 units</td>
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<td></td>
<td>*HIST 3860. Africa before 1800, 3 units</td>
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<td></td>
<td>HIST 3870. Africa, 1800-1945, 3 units</td>
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<td></td>
<td>HIST 3880. Contemporary Africa, 3 units</td>
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<tr>
<td>E.</td>
<td><em>At least two courses from B, C, &amp; D, above, must be in a pre-modern era. Courses fulfilling this requirement are starred (</em>). Also fulfilling this requirement is HIST 4350, England to 1603, 3 units.</td>
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<tr>
<td>F.</td>
<td>Two sections of:</td>
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<td></td>
<td>HIST 4960. Directed Reading Seminar, 3 units</td>
<td>6</td>
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<td>G.</td>
<td>HIST 4990. Senior Thesis, 4 units</td>
<td>4</td>
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<tr>
<td>H.</td>
<td>Unstructured electives in History</td>
<td>3</td>
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</table>

**TOTAL UNITS IN HISTORY MAJOR** | 30 |

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DEGREE CONCENTRATION AND MINOR IN HISTORY OF RELIGIONS

The Bachelor of Arts degree in History with a concentration in History of Religions is designed for those who have an interest in the academic study of religions and for those who want to prepare to teach about religions in the schools. The transcripts of history majors completing the program will note the concentration in History of Religions, while those who have other majors will be credited with a minor in History of Religions. Courses taken in the program are divided among the following areas: history of predominantly religious cultures (when students choose to apply these courses to the minor or concentration, their outside reading will be done in religion); specialized courses in the history of world religions; and courses which analyze religion. Further, the religions of at least two different societies are to be studied. Complete requirements are listed below.

I. Recommended lower division work

These courses and competencies are not prerequisites, but will give the student adequate background for upper division study.

A. Recommended Courses, 12 units recommended

ANTH 2060. Introduction to Cultural Anthropology, 3 units
ENGL 1500. Perspectives in Literature, 3 units
HIST 1010, 1020. Western Civilization, 6-8 units
HIST 2050. Third World I, 4 units
SOCL 1010. Introduction to Sociology, 3 units

B. Recommended Competencies

Library skills
Reading knowledge of a foreign language

II. Required Courses: Twenty-one units, distributed as below:

A. Analytical Studies, 6 units (must be taken in two different departments)

ANTH 3560. Old World Archaeology, 3 units
ANTH 4100. Studies in Social Anthropology, 1-4 units
PHIL 4450. Philosophy of Religion, 3 units
SOCL 4320. Sociology of Religion, 3 units

B. Historical Studies, 9 units

Religions in at least two different cultures must be studied, and at least one course must be taken which emphasizes non-Christian religion (HIST 3110, 3890, 4870, or, when applicable, 4960). When research projects or analytical studies are required in the below courses, the
History

student is to pursue topics which center on religious studies (copies of the results will be kept by the adviser until the student has completed his minor or concentration).

HIST 3110. Ancient Mediterranean World I, 4 units
HIST 3120. Ancient Mediterranean World II, 4 units
HIST 3140. Medieval Europe I, 3 units
HIST 3150. Medieval Europe II, 3 units
HIST 3210. Renaissance and Reformation, 3 units
HIST 3890. The Oriental Mind, 3 units
HIST 4660. American Religious History, 3 units
HIST 4870. History of Religion in Africa, 3 units
HIST 4960. Directed Reading Seminar in History, 3 units

C. Electives upon Advisement, 6 units

Courses listed above or courses approved by the adviser and meeting the following criterion: major emphasis is given to the history or analysis of man's religious experience. Such courses may be used to substitute for the above lists upon approval of the adviser.

HISTORY HONORS PROGRAM: RECOMMENDED AND REQUIRED COURSES

The honors candidate must fulfill the following requirements in addition to the major described above:

Two additional courses in European and one additional course in non-Western history, with the following qualifications:

1. The European courses must include one course from each of the following groups: a) HIST 3110, 3120; and b) HIST 3140, 3150, 3210, 3220.
2. The non-Western courses must include at least one course from the following list: HIST 3510, 3800, 3860.
3. The courses taken to fulfill the non-Western requirement may be taken in two separate geographic areas, but not more than two.

Pass a senior examination covering course work and reading undertaken in the history major.

Three courses in liberal arts outside of history.

Reading knowledge of an appropriate foreign language.

DEGREE MINOR IN HISTORY

Eighteen units in history, of which 12 units must be upper division history courses. All but Winter Term courses are to be taken ABCDF.

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

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TEACHING CREDENTIALS

History majors interested in multiple subject or single subject credentials are referred to the Education section of the catalog for a description of teaching credential programs.

LIBERAL STUDIES CONCENTRATION IN HISTORY

The Liberal Studies Concentration in History consists of 20 units, at least 17 of which must be upper division units, chosen from both Western (American and European) and non-Western courses, in approximately equal amounts, by advisement.

MASTER OF ARTS DEGREE IN HISTORY

The Master of Arts Degree is offered in the fields of American and Modern European History. It may include work in the history of Early Modern Europe, Africa, the Far East and Latin America. The degree may be taken with or without a thesis. Each student admitted to the program will be assigned an adviser whom the student will consult in planning his program.

Prerequisites for Admission to the Program

Twenty-four units of upper division history to include HIST 4990, Senior Thesis, or equivalent.
A grade point average of 3.0 in the undergraduate major.
Satisfactory performance in the Aptitude and History sections of the Graduate Record Examinations.
Reading knowledge of an appropriate foreign language as determined by the Department of History, or 9 units of supporting courses on the 4000- and 5000-levels from other departments, as approved by the candidate's committee.

Students may at times be admitted to the College with a conditional classification so they may undertake graduate work toward the M.A., without completion of the last two requirements, at the discretion of the Department, if there is satisfactory evidence of plans for prompt completion of the requirements.

REQUIREMENTS FOR THE DEGREE

Fifteen units from the following upon advisement:

HIST 5900. Graduate Studies, 4 units (two sections required of all candidates)
HIST 5930. History of Historical Writing, 4 units (required of all candidates)
HIST 5980. Individual Study
HIST 5990. Thesis

Fifteen additional units selected from the above 5000-level courses or from approved 4000-level courses, upon advisement.
Demonstration of knowledge of subject matter as well as competence in the following four skills:

- Working knowledge of the seminal works
- Ability to perform research operations
- Analytical skills
- Literary skills

This competence will be evaluated by the candidate's committee by means of a comprehensive written examination covering all graduate work, by a Graduate Committee judgment on all research papers or analytical studies submitted to fulfill program requirements, and by any other suitable means.

Additional Requirements: at least 24 units must be taken in residence; at least 15 of these units are to be completed after admission to classified graduate standing.

No course work below "B" grade level will be accepted in fulfilling any M.A. requirements. If the candidate earns less than a "B" average in any single semester, departmental review of the candidate's eligibility is mandatory. Withdrawal of candidacy may result.

**MASTER OF ARTS DEGREE IN HISTORY WITH CONCENTRATION IN INTERNATIONAL RELATIONS**

In addition to its regular M.A. degree, the Department also offers an M.A. with a special concentration in International Relations, drawing on closely related instructional resources of other social science departments. The concentration is of particular interest to those in professional military careers, those wishing to supplement their professional training in certain civil service careers, and those desiring an interdisciplinary background for teaching.

This concentration is designed to provide a scholarly focus on contemporary international problems, the practice and theory of the relationships between modern states, and domestic political and economic factors affecting policy formation in the past and present. The successes and failures of some of the decisive contacts between major states will be analyzed. In addition, those taking the degree will acquaint themselves with the ways historians arrive at their facts and conclusions, and they will study earlier theorists on international relations to give perspective to their other studies.

Prerequisites for Admission to the Program for the M.A. Degree with this Concentration

1. A GPA of 3.0 in an undergraduate major and in all subsequent academic course work. Students lacking this prerequisite may petition the International Relations/History Graduate Committee for admittance on a conditionally classified basis.

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2. Satisfactory performance on the General Aptitude section of the GRE. The student may be conditionally admitted without this prerequisite, but the examination must be taken during the first term of enrollment as a graduate student.

3. Adequate academic background, as evaluated by the International Relations/History Graduate Committee. The Committee will examine both the formal academic record of the applicant as well as informal preparation and appropriate job-related experience to determine whether the applicant has the potential for successful completion of the M.A. program.

REQUIREMENTS FOR THE DEGREE WITH INTERNATIONAL RELATIONS CONCENTRATION

A. Completion of 15 units as specified below:

1. Required courses:

   HIST/PSCI 5000. International Relations Seminar (4)
   Research on an International Relations topic, using history and political science methodology. (Topics to be specified in the class schedule)

   HIST 5930. History of Historical Writing (3)

2. 8 units upon advisement from the following:

   HIST 5900. Graduate Studies (4)
   HIST 5950. Selected Topics in History (4)
   Topics to be specified in the class schedule. Regular offerings will include courses such as: Soviet Russia; Twentieth Century China; U.S. Diplomacy; Contemporary Europe; Contemporary Africa. Courses will be oriented to diplomatic history.

   HIST 5990. Thesis (3-6)

B. 15 additional units upon advisement from the following:

1. Up to 6 units of appropriate postgraduate work from other institutions of higher learning may apply toward this requirement.

2. 5000-level courses listed above or Winter Term, HIST 5970; PSCI 5970; or ECON 5970.
History

3. Any of the following courses:
   HIST 4040. Rise & Fall of European Colonial Systems, 1830-1965 (3)
   HIST 4330. Modern France (3)
   HIST 4340. Modern Germany (3)
   HIST 4430. Soviet Russia (3)
   HIST 4600. American Diplomatic History (3)
   HIST 4800. Modern China (3)
   HIST 4840. Modern Japan (3)
   HIST 4860. North Africa (3)
   HIST 4950. Selected Topics (when an international relations topic is taught) (1-5)
   HIST 4960. Directed Readings Seminar in History (3)

   PSCI 4440. Elites & Public Policies in Latin America (3)
   PSCI 4610. National Security Administration and Policy Making (3)
   PSCI 4620. International Dimensions of National Security Policy (3)
   PSCI 4630. Inter-American Affairs (3)
   ECON 4050. Comparative Economic Systems (3)
   ECON 4410. International Trade (3)
   ECON 4420. Soviet Economics (3)
   ECON 4430. International Economic Policies (3)
   GEOG 4200. Geography of Developing Areas (3)

Each student will be given an adviser and an examining committee. A comprehensive written examination will be required of all candidates and will cover all work taken in the program. An oral examination may be required in addition to the comprehensive written examination at the discretion of the student's committee.

Additional regulations for the M.A. degree with this concentration:

1. 24 units are to be taken in courses offered by CSCS.
2. 15 of the 24 units are to be taken after admission to classified graduate standing.
3. No course work below "B" grade level will be applied to any M.A. requirements.
4. Each student will be reviewed at least annually by the IR/HIST Committee and may be dropped from the program if the student is not making satisfactory progress.

COURSE DESCRIPTIONS

Lower Division

HIST 1010. Western Civilization I (3)

Intellectual, political, and social history of Western man from the earliest civilizations to 1500. 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.

HIST 1020. Western Civilization II (3)

Continuation of HIST 1010. The modern world since 1500.

HIST 2050. Third World I (4)

An integrated history of the premodern civilizations of Africa, the Americas, East Asia, and the Middle East, stressing comparisons of socio-economic patterns, governmental theory and practice, and intellectual traditions.

HIST 2060. Third World II (4)

An integrated history of the civilizations of Africa, the Americas, East Asia, and the Middle East, focusing on a comparative analysis of their struggles for liberation and independence.

HIST 2600. Problems in U.S. History (3)

Conflicting interpretations of crucial issues in U.S. History.

HIST 2900. Library Resources and Bibliographical Control for Historical Research (2)

Survey of abstracts, bibliographies, biographical directories, book review indexes, dictionaries, documents, encyclopedias, and indexes for historical research; and the application of footnote and bibliographical methods for history majors.

HIST 2950. Selected Topics in History (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of history. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

HIST 2970. Selected Topics offered during Winter Term (4)

Upper Division

HIST 3000. Introductory Seminar in History (3)

Introduction to the study of history as a discipline, with focus on a major historical work. The circumstances under which the work was produced will be examined through reading, class discussion, and individual work with the instructor. (Formerly 299)
HIST 3090. Contemporary World History (3)

Integrated global history of mankind since 1945. The aftermath of World War II, the Cold War, the collapse of colonial empires, the impact of the death of Stalin, the youth revolution, Sino-Soviet rivalry, and U.S.-Soviet détente. Prerequisite: Sophomore standing.

HIST 3110. Ancient Mediterranean World I (4)

From early Sumer to Alexander the Great. Prerequisite: Sophomore standing. HIST 1010 or 2050 recommended.

HIST 3120. Ancient Mediterranean World II (4)

The Hellenistic Age, Roman Republic and Empire, and the triumph of Christianity. Prerequisite: Sophomore standing. HIST 3110 recommended.

HIST 3140. Medieval Europe I (3)

Western Europe as an underdeveloped area from the fading of Roman rule to 1100. Prerequisite: Sophomore standing. HIST 1010 recommended.

HIST 3150. Medieval Europe II (3)

Western Europe from 1100 to 1500. Prerequisite: Sophomore standing. HIST 1010 recommended. HIST 3140 should precede HIST 3150 when possible.

HIST 3210. Renaissance and Reformation (3)

European social, political, economic, and intellectual changes from the late middle ages to 1598: the Renaissance state; Renaissance humanism; the Reformation; social impact of the Reformation. Prerequisite: Sophomore standing.

HIST 3220. Absolutism and Revolution, 1598-1799 (3)

European social, political, economic, and intellectual changes: royal absolutism; the scientific revolution; seventeenth-century revolutions; the Enlightenment; the French Revolution. Prerequisite: Sophomore standing.

HIST 3230. Nineteenth Century Europe (3)

Democratization in the age of nationalism; Napoleon to Sarajevo. Prerequisite: Sophomore standing.

HIST 3240. Twentieth Century Europe (3)

Origins of World War I, the war, the uneasy peace, the
democracies and the dictators between the wars, World War II, and the Cold War. Prerequisite: Sophomore standing.

HIST 3250. Eastern Europe Since 1453 (3)

A survey of Europe between the German lands and Russia from the period of medieval and early modern sovereignty through national subjection to independence and communism. Prerequisite: Sophomore standing.

HIST 3300. History of Western Christianity (3)

A survey of the development of Christianity from the age of Constantine to the present. Emphasis will be placed on Christian thought, Christian institutions, and the relationship between Christianity and society in Western history. Prerequisite: Sophomore standing.

HIST 3510. Latin America in Colonial Times (3)

A survey of Latin American history: native Indian cultures, European conquests and resulting cultural conflict, Spanish and Portuguese rule, and trends in colonial society. Prerequisite: Sophomore standing.

HIST 3520. Latin American States Since Independence (3)

From the struggle for independence to the mid-twentieth century. (Formerly 252) Prerequisite: Sophomore standing.

HIST 3610. Colonial America (3)

The Anglo-American colonies of the North American mainland; from their foundation through their maturation and struggle for independence to their emergence as the United States of America. Prerequisite: Sophomore standing.

HIST 3620. Ante-Bellum America (3)

United States, 1789-1865. Founding of the Union through the Civil War; quest for cultural independence; interaction of popular democracy and economic growth; slavery, sectionalism, and nationalism. Prerequisite: Sophomore standing.

HIST 3630. America After the Civil War (3)

United States, 1865-1914. Reconstruction through Progressivism: development of a complex urban-industrial society; coming of world power. Prerequisite: Sophomore standing.

HIST 3640. Contemporary America (3)

United States since 1914. World War I to the present:
History

America's role as a great power; problems of welfare capitalism. Prerequisite: Sophomore standing.

HIST 3670. California History (3)

Spanish exploration and settlement; environment; political, economic, and social developments which give California its unique character. Prerequisite: Sophomore standing.

HIST 3710. Mexican-American History (3)

The role of the Mexican-American in the 19th and 20th centuries with emphasis on the modern period. Prerequisite: Sophomore standing.

HIST 3730. Afro-American History (3)

The development of the Black community in the United States. African origins, American slavery, Reconstruction, the foundations of the Black community in modern America, and the struggle for Black identity. Prerequisite: Sophomore standing.

HIST 3800. East Asia in Traditional Times (3)

Origins and development of the principal institutions and cultural patterns of China, Japan, and Korea from earliest times to the nineteenth century. Prerequisite: Sophomore standing.

HIST 3810. East Asia in the Modern World (3)

Disintegration of the traditional civilizations of China, Japan, and Korea under the impact of the West, and the subsequent quest for reintegration and adjustment to the West since the nineteenth century. (Formerly 281) Prerequisite: Sophomore standing.

HIST 3850. China and the United States (3)

A comprehensive survey of the economic, political, and cultural relations between China and the United States from the 18th century to the present. Prerequisite: Sophomore standing.

HIST 3860. Africa Before 1800 (3)

Historical development of social, political and economic institutions of traditional African societies and relations with classical antiquity, Asia, Europe and America. (Formerly 286) Prerequisite: Sophomore standing.

HIST 3870. Africa, 1800-1945 (3)

Establishment of 19th century state systems, the economic, cultural and ideological context of African resistance movements and their later reactions to the colonial situation. (Formerly 287) Prerequisite: Sophomore standing.
HIST 3880. Contemporary Africa, 1945 to the Present (3)

The interplay of historical forces leading to the decolonization of Africa, the reorganization of African state systems and Africa's participation in world affairs. (Formerly 386) Prerequisite: Sophomore standing.

HIST 3890. The Oriental Mind (4)

Historical survey of the major works of Chinese and Japanese thought illustrating the main tenets and evolution of Confucianism, Taoism, Buddhism, Shintoism, and Maoism. Prerequisite: Sophomore standing.

HIST 4030. Age of Exploration (3)

Exploration since Henry the Navigator; search for gold and spices. Establishment of trading factories and mercantilist colonies in Asia and Africa. Fall of the old colonial empires. Prerequisite: One year of college-level history or consent of instructor.

HIST 4040. Rise and Fall of European Colonial Systems, 1830-1965 (3)

New colonialism of the 19th century in Asia and Africa and its collapse in the 20th century. Prerequisite: One year of college-level history or consent of instructor.

HIST 4210. European Intellectual History: Renaissance to the Present (3)

A study of the major ideologies in modern Europe and the means by which these ideologies were institutionalized. (Formerly 4300) Prerequisite: One year of college-level history or consent of instructor.

HIST 4310. Modern Spain (3)

A broad political, economic, and social survey: expansiveness of Castile; economic and social consequences of world role; Bourbon reformers, responses to Napoleonic interference; 19th and 20th century struggles to define a modern identity. (Formerly 420) Prerequisite: One year of college-level history or consent of instructor.

HIST 4330. Modern France (3) *

Development of the French nation, with emphasis on the period since 1870. (Formerly 435) Prerequisite: One year of college-level history or consent of instructor.

*Not offered 1976-77
HIST 4340. Modern Germany (3)

The problem of German disunity since the Reformation. The rise of Prussia, romanticism and German nationalism, World War I, Hitler and World War II, the partition of Germany since 1945. (Formerly 440) Prerequisite: One year of college-level history or consent of instructor.

HIST 4350. England to 1603 (3)*

Political and constitutional history from the Anglo-Saxon invasion to the creation of a modern nation state. (Formerly 445) Prerequisite: One year of college-level history or consent of instructor.

HIST 4360. Modern Britain, 1603 to the Present (3)

Political, social, and intellectual developments from the Stuart era to the present. (Formerly 446) Prerequisite: One year of college-level history or consent of instructor.

HIST 4420. Russia to 1917 (3)

Russia from earliest times to the revolutions of 1917. Prerequisite: One year of college-level history or consent of instructor.

HIST 4430. Soviet Russia (3)

Russia and the Soviet Union from the revolutions of 1917 to the end of the Khrushchev era. (Formerly 442) Prerequisite: One year of college-level history or consent of instructor.

HIST 4500. History of Mexico (3)

From independence to the mid-twentieth century. Prerequisite: One year of college-level history or consent of instructor.

HIST 4600. American Diplomatic History (3)

U.S. foreign relations from the colonial period to the present. (Formerly 470) Prerequisite: One year of college-level history or consent of instructor.

HIST 4640. Constitutional History of the United States (3)

The theory of limited government, and how the American people have applied it. (Formerly 474) Prerequisite: One year of college-level history or consent of instructor.

*Not offered 1976-77
HIST 4660. American Religious History (3)

American religious institutions and thought from colonial origins to the present; importance of European backgrounds and American environment in producing a unique American religious tradition; impact upon social and cultural development. (Formerly 476) Prerequisites: Junior Standing and two courses in American history.

HIST 4680. American Intellectual and Social History (3)

Impact of European experience and American environment; impact on the cultural milieu of industrialism, urbanism and U.S. world involvement. (Formerly 478) Prerequisite: One year of college-level history or consent of instructor.

HIST 4800. Modern China (3)

Analysis of the main trends of nineteenth and twentieth century imperialism in China and the consequent rise of Chinese anti-imperialism; main features of China's socio-economic system and the gradual development of reform movements culminating under the People's Republic. Prerequisites: Junior standing and one year of college-level history.

HIST 4840. Modern Japan (3)

Development of Japan from a feudalistic society of the early nineteenth century to a major world power in the present day. Emphasis will be on the conflicting themes of authoritarianism and liberalism. Prerequisites: Junior standing and one year of college-level history.

HIST 4860. North Africa (3)

Morocco, Algeria, Tunisia, and Libya during the nineteenth and twentieth centuries. Colonial rule, independence movements, and the political and social structures of the states which evolved. Prerequisite: One year of college-level history or consent of instructor.

HIST 4870. History of Religion in Africa (3)

Historical study of African religious systems, their impact on African political theory, their socio-economic dimensions, and their interaction with Islam and Christianity. (Formerly 467, 487 and 488) Prerequisite: One year of college-level history or consent of instructor.

HIST 4950. Selected Topics in History (Topics to be specified in Class Schedule) (1-5)

Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.
History

HIST 4960. Directed Reading Seminar in History (3)

Reading on a theme or period of the student's choice. Pre-requisite: Consent of instructor.

HIST 4970. Selected Topics offered during Winter Term (4)

HIST 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

HIST 4990. Senior Thesis (Topics to be specified in Class Schedule) (4)

Methodology of history. Research techniques applied to investigation of original source material. May be repeated for a maximum of 8 units. Prerequisites: Senior standing, advanced course work in history, and consent of instructor. Under exceptional circumstances, junior may be admitted.

Graduate

HIST 5000. International Relations Seminar (2)

Research on an international relations topic, using history and political science methodology. (Topics to be specified in the class schedule) To be taken concurrently with PSCI 5000 International Relations Seminar. This course is primarily for the International Relations/History M.A. concentration, but is open to all qualified students.

HIST 5900. Graduate Studies (4)

Reading of major secondary works or intensive original research in American or European history, as designated in the Class Schedule. Prerequisites: Advanced course work in American or European history as appropriate, and consent of instructor.

HIST 5930. The History of Historical Writing (4)

The problem of reproducing and analyzing the past as seen through the eyes of major historians and philosophers of history from earliest times to the present. Prerequisite: Advanced course work in history.

HIST 5950. Selected Topics in History (Topics to be specified in Class Schedule) (1-5)

Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.
HIST 5970. Selected Topics offered during Winter Term (4)

HIST 5980. Individual Study (1-4)

For qualified graduate students in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

HIST 5990. Thesis (3-6)
International Studies
A Concentration Within the Social Sciences Major

Steven W. Hughes, Ph.D., Director

The International Studies program provides a framework of study for those students interested in the interrelations of nations and peoples. Because these interrelations are complex and operate at different levels (economic, political, military, cultural, etc.), a student must be selective with regard to the areas to be investigated. Thus the focus of a student's course work in this concentration may be on a particular area (Europe, Africa, the Middle East, Latin America, etc.), or on international problems (economic, political, diplomatic, etc.), or on international organizations and their functions, or aspects of intercultural communication, etc. To identify the most appropriate pattern of courses, the student will prepare his program in close consultation with the program director. The director should also be consulted regarding career opportunities.

REQUIREMENTS FOR THE BACHELOR OF ARTS, SOCIAL SCIENCES, WITH A CONCENTRATION IN INTERNATIONAL STUDIES

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete the general prerequisite: one lower division research methods course in the field of his major interest. These include PSYC 2020, SOCL 2030, PSCI 2000, HIST 2900. Students in other fields will take PSYC 2020 or SOCL 2030.
3. Complete the major of not less than 32 upper division units, as approved by the adviser, and distributed as follows:
   - 4 courses in the field of the student's major interest
   - 3 courses in a second field
   - 3 courses in a third field
   - 1 Social Sciences Interdisciplinary Seminar

   11 courses of not less than 32 upper division units; of these no more than 8 units of Winter Term CR graded course work may apply toward the major.
4. Completion of a minor is not required.

RULES FOR SELECTION OF COURSES

1. ANTHROPOLOGY. Prerequisites: ANTH 2060, Introduction to Cultural Anthropology, 3 units
Upper Division Courses:
ANTH 3050. Cultures of the Middle East, 3 units
ANTH 3060. Australia and Oceania, 3 units
ANTH 3070. Sub-Saharan Africa, 3 units
ANTH 3100. East and South Asia, 3 units
ANTH 3110. Peoples of the Soviet Union, 3 units
ANTH 3370. Native Peoples of Mexico, 3 units
ANTH 3380. Native Peoples of Central & South America, 3 units
ANTH 4010. Culture and Personality, 3 units
ANTH 4060. Anthropological Linguistics, 4 units
ANTH 4100. Studies in Social Anthropology, 1-4 units
ANTH 4200. Applied Anthropology & Social Change, 4 units
ANTH 4210. Cultural Dynamics, 3 units
ANTH 4980. Individual Study, 1-4 units

2. ECONOMICS. Prerequisite: ECON 2500, Principles of Economics I, or equivalent, 4 units

Upper Division Courses:
ECON 4000. Intermediate Theory (Macroeconomics), 3 units
ECON 4010. Economic Thought, 3 units
ECON 4050. Comparative Economic Systems, 3 units
ECON 4160. Economic History of Europe, 3 units
ECON 4200. Intermediate Theory (Microeconomics), 3 units
ECON 4401. Third World Economics, 3 units
ECON 4410. International Trade, 3 units
ECON 4420. Soviet Economics, 3 units
ECON 4450. Economic Planning, 3 units
ECON 4540. Public Finance & Fiscal Policy, 3 units
ECON 4980. Individual Study, 1-4 units

3. GEOGRAPHY. Prerequisite: One of the following:
GEOG 2010. Intro. to the Physical Environment, 3 units
GEOG 2020. Introduction to Cultural Geography, 3 units
GEOG 2400. World Regional Geography I, 3 units
GEOG 2410. World Regional Geography II, 3 units

Upper Division Courses:
GEOG 3020. Human Ecology, 3 units
GEOG 3300. Economic Geography, 3 units
GEOG 3550. Geography of Europe, 3 units
GEOG 3570. Geography of the Soviet Union and Its Satellites, 3 units
GEOG 3590. Geography of Asia, 4 units
GEOG 4200. Geography of Developing Areas, 3 units
GEOG 4300. Geography of Resource Planning, 3 units
GEOG 4980. Individual Study, 1-4 units
4. HISTORY. Prerequisite: One year of lower division history, United States History, Western Civilization, or non-Western History.

Upper Division Courses:

HIST 3000. Introductory Seminar in History, 3 units
HIST 3090. Contemporary World History, 3 units
HIST 3230. 19th Century Europe, 3 units
HIST 3240. 20th Century Europe, 3 units
HIST 3250. Eastern Europe Since 1453, 3 units
HIST 4040. Rise & Fall of European Colonial Systems, 1830-1965, 3 units
HIST 4210. European Intellectual History: Renaissance to the Present, 3 units
HIST 4310. Modern Spain, 3 units
HIST 4330. Modern France, 3 units
HIST 4340. Modern Germany, 3 units
HIST 4360. Modern Britain, 1603 to the Present, 3 units
HIST 4420. Russia to 1917, 3 units
HIST 4430. Soviet Russia, 3 units
HIST 4600. American Diplomatic History, 3 units
HIST 4960. Directed Reading Seminar in History, 3 units

Non-Western:

HIST 3510. Latin America in Colonial Times, 3 units
HIST 3520. Latin American States Since Independence, 3 units
HIST 3800. East Asia in Traditional Times, 3 units
HIST 3810. East Asia in the Modern World, 3 units
HIST 3860. Africa Before 1800, 3 units
HIST 3870. Africa 1800-1945, 3 units
HIST 3880. Contemporary Africa, 1945 to the Present, 3 units
HIST 3890. The Oriental Mind, 4 units
HIST 4800. Modern China, 3 units
HIST 4840. Modern Japan, 3 units
HIST 4860. North Africa, 3 units
HIST 4870. History of Religion in Africa, 3 units
HIST 4980. Individual Study, 1-4 units

5. POLITICAL SCIENCE. Prerequisite: PSCI 1200, American Government, 3 units

PSCI 3400. Comparative Politics: Europe, 3 units
PSCI 3410. Comparative Politics: Latin America, 4 units
PSCI 3420. Comparative Politics: East Asia, 4 units
PSCI 3450. Comparative Politics: USSR & Eastern Europe, 3 units
PSCI 3460. Politics of the Developing Areas, 4 units
PSCI 3600. International Relations, 4 units
PSCI 3620. Soviet Foreign Policy, 3 units
PSCI 4420. Comparative Bureaucracies, 3 units
PSCI 4440. Elites and Public Policy in Latin America, 3 units
PSCI 4610. National Security Administration and Policy Making, 3 units
PSCI 4620. International Dimensions of National Security Policy, 3 units
PSCI 4630. Inter-American Affairs, 3 units
PSCI 4980. Individual Study, 1-4 units

6. SOCIOLOGY. Prerequisite: SOCL 1010, Introduction to Sociology, 3 units

Upper Division Courses:

SOCL 3200. Social Change, 3 units
SOCL 3430. Population, Resources, and the American Future, 3 units
SOCL 4320. Sociology of Religion, 3 units
SOCL 4400. Political Sociology, 3 units
SOCL 4520. Personality and Society, 3 units
SOCL 4600. Industrial Sociology, 3 units
SOCL 4980. Individual Study, 1-4 units
The Bachelor of Arts degree program is an interdisciplinary-based curriculum which is designed to provide the student with the opportunity to pursue a liberal education in the following academic areas: Social Sciences, Mathematics-Science, Arts-Humanities, and English-Speech.

The Bachelor of Arts degree fulfills the following career objectives:

1. It provides the academic major prerequisite for students who are planning to pursue credentials to teach in elementary schools.
2. It provides an interdisciplinary-based degree program for students who are pursuing professional careers and occupations requiring an interdisciplinary background in the liberal arts. In addition to providing a strong interdisciplinary background, it provides the student the opportunity to develop a program concentration in a single academic discipline.

REQUIREMENTS FOR THE BACHELOR OF ARTS, LIBERAL STUDIES

1. Basic Liberal Studies Area Requirements

<table>
<thead>
<tr>
<th>Units Required</th>
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<tbody>
<tr>
<td>18</td>
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<td>18</td>
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<tr>
<td>18</td>
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<tr>
<td>18</td>
</tr>
</tbody>
</table>

This pattern of courses satisfies the general education requirements for the degree. No minor is required. For other requirements see "General Requirements for Degrees."

2. Completion of a Concentration

A concentration shall include 20 units, at least 15 of which must be in the upper division. The concentration must be selected from the following list of single disciplines.

* Students wishing to pursue a Liberal Studies program with a Bilingual/Cross-Cultural emphasis and concentration are referred to Bilingual/Cross-Cultural Studies on page 127 of the catalog.
3. Completion of six additional units from disciplines of the Areas A, B, C, and D, excluding the area which contains the concentration .................. 6

4. Upper Division Electives .................. 25

Students may utilize these units to complete one of the other academic majors offered by the College, as a second major, or may choose to distribute them as broadly as they choose. Students electing to complete a preliminary multiple subject credential within four years must use these units for professional education, including student teaching. Students electing to complete a permanent multiple subject credential within five years may use the upper division electives to complete a minor or a second major.

5. Physical Education .................. 1

Minimum Total Units Required .................. 124

OPTIONS AVAILABLE

1. A Bachelor of Arts in Liberal Studies with a concentration as outlined.

2. A candidate for a multiple subject credential may obtain the Bachelor of Arts in Liberal Studies with a concentration outlined, and also complete the professional education prerequisites and student teaching within four years, obtaining a preliminary credential. The full credential is awarded upon completion of a fifth year of studies. (See the Catalog section on Education.) Under this option, no more than 15 semester units of the fifth year may be required in professional education. Since the remaining units must be in academic subjects, the students may also complete a second bachelor's degree in any other major offered by the College. (See "Requirements for an Additional Baccalaureate Degree" in the Catalog.)

3. A multiple subject credential candidate may complete a major in Liberal Studies with a second academic major rather than...
a concentration by postponing the completion of one's professional education courses until the fifth year. This option should be considered by students pursuing advanced degrees in academic areas.

**LIBERAL STUDIES AREA A**

### SOCIAL SCIENCES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 1200</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2600</td>
<td>Problems in U.S. History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3610</td>
<td>Colonial America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3620</td>
<td>Ante-Bellum America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3630</td>
<td>America After Civil War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3640</td>
<td>Contemporary America</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2010</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

4. Anthropology or Geography: One of the following 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2000</td>
<td>Cultural Profiles: An Introduction to Peoples of the World</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 2060</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2000</td>
<td>Interaction: Man &amp; the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2400</td>
<td>World Regional Geography I</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2410</td>
<td>World Regional Geography II</td>
<td>3</td>
</tr>
</tbody>
</table>

5. Additional work selected from the social sciences upon advisement 6

**Total** 18

**LIBERAL STUDIES AREA B**

### MATHEMATICS-SCIENCE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 1030, 1040</td>
<td>Elementary Foundations of Mathematics I, II</td>
<td>6</td>
</tr>
<tr>
<td>BIOL 1010</td>
<td>Principles of Biology, Lec &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1000</td>
<td>Chemistry in the Modern World</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1500</td>
<td>Energy &amp; Matter, Lec &amp; Lab</td>
<td>3</td>
</tr>
</tbody>
</table>

2. One course from the following 2-3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 2100</td>
<td>Descriptive Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2650</td>
<td>Environmental Biology</td>
<td>2</td>
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<tr>
<td>GEOL 2100</td>
<td>Principles of Geology</td>
<td>3</td>
</tr>
<tr>
<td>PHSC 1300</td>
<td>Environmental Pollution</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total** 18-19

* The scientific aspects of environmental topics will be emphasized in these courses.
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LIBERAL STUDIES AREA C

ARTS-HI.W\NITIES
1.

Three units from each of the following areas
ART 1000. Introduction to Drawing, 3 units
or ART 2100. Art History Survey I, 3 units
or ART 2110. Art History Survey II, 3 units
DRAM 1010. Introduction to Theatre, 3 units
or DRAM 3020. Children's Theatre, 3 units
FOR LANG: PREN 3930 or GERM 3930 or SPAN 3930,
Literature in Translation, 3 units
MUS 1190. Music Fundamentals, 3 units

2.

Three units elected from one of the following areas
ART

1010.

ART

3420.

DRAM 2300.
DRAM 2350.
FOR LANG:
MUS 1000.
PHIL 1010.
PHIL 1100.
3.

PHIL 3000.

Units
. 12

3

Drawing I, or an additional art
history course, 3 units
Art Appreciation &Criticism for
the Non-Art Major, 3 units
Theatre Workshop, 1-2 units
Rehearsal &Performance, 3 units
An additional 3930 course, 3 units
Introduction to Music, 3 units
Introduction to Philosophy, 3 units
Logic, 3 units

Humanistic Inquiry
Total .

3

18

LIBERAL STUDIES AREA D

ENGLISH-SPEECH
1.

Core Requirements •.

Units
15-16

ENGL 1000. English Composition, 3 units
ENGL 1010. Introduction to Literature, 3 units
or ENGL 1500. Perspectives in Literature,
3 units
or ENGL 1501. Perspectives in American
Literature, 3 units
ENGL 3000. Advanced Composition, 3 units
SPCH 2000. Speech Communication, 3 units
or SPCH 2010. Oral Communication Processes,
4 units
SPCH 3010. Language &Speech Development, 3 units

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2. Additional units to be selected from the following courses upon advisement ........................................ 2-3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2010</td>
<td>Critical Approaches to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3800</td>
<td>Introduction to Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3810</td>
<td>Introduction to Historical Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3830</td>
<td>Introduction to Bilingualism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4620</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4630</td>
<td>Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 2400</td>
<td>Oral Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 2910 &amp; 3910</td>
<td>Speech Activities, 2 units</td>
<td></td>
</tr>
<tr>
<td>SPCH 3000</td>
<td>Phonetics</td>
<td>3</td>
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<tr>
<td>SPCH 3020</td>
<td>Structural and Psycholinguistics</td>
<td>4</td>
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<tr>
<td>SPCH 3050</td>
<td>General Semantics</td>
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<tr>
<td>SPCH 3400</td>
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<tr>
<td>SPCH 3410</td>
<td>Oral Interpretation of Literature</td>
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Total ........................................ 18

LIBERAL STUDIES AREA E

PHYSICAL EDUCATION

PHED 1000. Any 1000-level activity class ........ 1
Marine Sciences

MOSS LANDING LABORATORIES

The California State University and Colleges operate the Moss Landing Marine Laboratories at Moss Landing, California. This marine facility functions as a seaside extension of the campuses of six cooperating State University and Colleges (Stanislaus, Fresno, Hayward, Sacramento, San Francisco, and San Jose) and offers course work in marine biology, geology, meteorology, oceanography, and other marine sciences. The curriculum is designed to fulfill major requirements for qualified upper division and graduate students. Such students can plan their academic schedules to provide for one or more terms at the Moss Landing Marine Laboratories and will be considered as in-residence at California State College, Stanislaus.

Interested students should make early application because enrollment is limited. Consult advisers in the Department of Biological Sciences or Department of Physical Sciences for further details or write to the Director, Moss Landing Marine Laboratories, P. O. Box 223, Moss Landing, California 95039.

COURSE DESCRIPTIONS

MSCI 3010. General Oceanography (4)

An interdisciplinary examination of physical and chemical characteristics of seawater, distribution and effects of ocean currents, waves and tides, geology of the ocean floor and relations of organisms to the marine environment. (Lecture, 3 hours; lab or field, 3 hours) Prerequisites: College chemistry and mathematics, concurrent registration in MSCI 3020. (MLML 101)

MSCI 3020. Marine Science Techniques (3)

Introductory field and laboratory practice in the techniques for collection, analysis, and interpretation of data on the marine environment. (Lecture, 2 hours; lab or field, 3 hours) Prerequisites: College chemistry and mathematics, concurrent registration in MSCI 3010. (MLML 102)

MSCI 3030. Marine Ecology (4)

A field-oriented introduction to the interrelationships between marine and estuarine organisms and their environment with emphasis on quantitative data collection and analysis. (Lecture, 2 hours, lab or field, 6 hours) Prerequisites: Ecology, statistics (or concurrent registration in MSCI 3040), or consent of instructor. (MLML 103)
MSC 3040. Quantitative Marine Science (3)

The mathematical methods for the analysis of biological, chemical and physical data from the marine environment; experimental design, parametric and non-parametric statistics. (Lecture, 2 hours; lab or field, 3 hours) Prerequisite: College mathematics. (MLML 104)

MSC 3050. Marine Science Diving (3)

Skin and scuba diving course; five ocean dives include underwater sampling and survey techniques. Successful completion gives NAUI and MLML certification. (No credit toward science major.) (Lecture, 1 hour; lab or field, 6 hours) Prerequisites: Upper division science major status, ability to pass swimming test. (MLML 105)

MSC 3060. Subtidal Ecology (4)

Studies of communities in the sublittoral zone, stressing application of ecological research techniques by the diver. Field exercises in sampling, community analysis, and ecological surveys in space and time will be carried out. Students will present a seminar and plan, execute, and report the results of a research project. Prerequisites: MLML Diver Certification, MSC 3030, and MSC 3210 or 3310. (Lecture 2 hours; lab/field, 6 hours) (MLML 106)

MSC 3110. Zoology of Marine Vertebrates (4)

A field-oriented study of natural history, ethology, physiology, identification, and systematics of vertebrates living in or associated with marine, estuarine, and shore communities; emphasis upon interrelationships of organisms within these environments. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: College zoology or equivalent; MSC 3030 recommended. (MLML 111)

MSC 3120. Marine Birds and Mammals (4)

Systematics, morphology, ecology, and biology of marine birds and mammals. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: upper division college vertebrate zoology, MSC 3110, or consent of instructor; MSC 3030 recommended. (MLML 112)

MSC 3130. Marine Ichthyology (4)

A description of the taxonomy, morphology, and ecology of marine fishes. Both field and laboratory work concentrate on the structure, function and habits of marine fishes and the ecological interaction of these fishes with their biotic and abiotic surroundings. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: College zoology or equivalent; MSC 3110 or consent of instructor; MSC 3030 recommended. (MLML 113)
MSCI 3210. Marine Invertebrate Zoology (4)

A field-oriented introduction to the anatomy, embryology, systematics, and evolution of the marine invertebrate groups; emphasis on field observation, identification, and systematics. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: College zoology or consent of instructor; MSCI 3030. (MLML 121)

MSCI 3220. Marine Invertebrate Embryology (4)

Survey of principles of development biology, concentrating on experimental evidence obtained using invertebrate material. Laboratory observations will cover the embryology of lower invertebrates, molluscs, crustacea, echinoderms, and protochordates. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: MSCI 3210, cell biology or biochemistry strongly recommended, or consent of instructor. (MLML 122)

MSCI 3230. Marine Invertebrate Physiology (4)

Comparative physiology of the invertebrates; laboratory problems or nutrition, respiration, cosmic regulation, coordination, and other physiological functions. General principles of physiology will be discussed using examples from the invertebrate phyla. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: MSCI 3210, general physiology, or consent of instructor. (MLML 123)

MSCI 3310. Marine Phycology (4)

The biology of marine algae with emphasis on identification, life histories, ecology, and systematics. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: College Botany; MSCI 3030 recommended. (MLML 131)

MSCI 3320. Introduction to Marine Plankton (4)

Identification, distribution, and ecology of phytoplankton and zooplankton. Introduction to sampling and analytical procedures. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: MSCI 3010; 3030 recommended. (MLML 132)

MSCI 3410. Geological Oceanography (3)

A study of the structures, physiography, and sediments of the sea bottom and shoreline. (Lecture, 2 hours; lab or field, 3 hours) Prerequisites: MSCI 3010 and 3020 (concurrent registration satisfactory) (MLML 141)

MSCI 3420. Marine Biogenic Sedimentation (3)

Interdisciplinary studies of the provenance, biologic, and geologic composition of marine sediments and of the organisms
Marine Sciences

contributing to their formation; sedimentary processes affecting these sediments. (Lecture, 2 hours; lab or field, 3 hours). Prerequisites: MSCI 3010 and college geology and biology or consent of instructor. (MLML 142)

MSCI 3430. Coastal Geomorphology (3)

A geologic history and formation of the shoreline. (Lecture, 2 hours; lab or field, 3 hours) Prerequisite: Physical geology or physical geography. (MLML 143)

MSCI 3510. Marine Meteorology (3)

Introductory descriptive course in physical processes involved in wind-generated surface waves, currents, temperature structure, and near shore zones of the oceans. (Lecture, 2 hours; lab or field, 3 hours) Prerequisite: College algebra. (MLML 151)

MSCI 3710. Oceanographic Summer Cruise (4)

Oceanographic shipboard research in California coastal waters; preliminary selection of research topic, cruise logistics, shipboard instrumentation. Following the one-week cruise, samples will be analyzed and data interpretation will be presented as written reports. (Lecture, 2 hours; lab and field, 6 hours) Prerequisites: MSCI 3010, 3020, 3030, 3040. (MLML 171)

MSCI 3720. Marine Environmental Group Research (3)

Student involvement in scientific investigation; employment of scientific methodology and principles; literature surveys, experience in writing, and presenting research findings on specific projects. (Lecture, 1 hour; lab and field, 6 hours) Prerequisites: MSCI 3010, 3020, 3030, 3040. (MLML 172)

MSCI 4980. Individual Study (1-4)

Faculty-directed study of selected research problems; open to undergraduate students with adequate preparation. Prerequisite: Consent of instructor. (MLML 180)

Graduate

MSCI 5010. Concepts of Marine Science (3)

Study of the major principles and concepts of the marine sciences; analysis of outstanding researches from recent scientific literature. Development of laboratory exercises. The course is designed for updating knowledge of school teachers or for students working on teaching credentials. Not open to marine science majors. (Lecture, 2 hours; lab or field, 3 hours) Prerequisites: MSCI 3010 and 3030 or consent of instructor. (MLML 201)
MSCI 5020: Marine Instrumental Analysis (4)

Theory and use of advanced instrumentation; advanced field and laboratory techniques for the interpretation of data collected in marine science research. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: MSCI 3010, 3020, and Quantitative Analysis. (MLML 202)

MSCI 5030. Advanced Marine Ecology (3)

Advanced considerations of marine populations, communities and ecosystems with emphasis on current literature. (Lecture, 2 hours; lab or field, 3 hours) Prerequisites: MSCI 3030 and consent of instructor; MSCI 3040 recommended. (MLML 203)

MSCI 5110. Behavior of Marine Animals (3)

The causation, development, and evolution of the behavior of marine animals. (Lecture, 2 hours; lab or field, 3 hours) Prerequisite: MSCI 3040 or statistics or consent of instructor. (MLML 211)

MSCI 5120. Topics in Marine Vertebrates (4)

Advanced consideration of the ecology, physiology, and phylogeny of fishes, birds, or mammals, emphasizing current literature and research. Topics and emphasis will vary with term and instructor. May be repeated once for credit. (Lecture, 2 hours; lab and field, 6 hours) Prerequisites: MSCI 3110, 3120, or 3130 and consent of instructor. (MLML 212)

MSCI 5210. Topics in Marine Invertebrates (4)

Advanced considerations of the ecology, physiology, and phylogeny of the various invertebrate phyla emphasizing current literature and research. Topics and emphasis will vary from term to term. May be repeated once for credit. (Lecture, 2 hours; lab and field, 6 hours) Prerequisites: MSCI 3210 and consent of instructor. (MLML 221)

MSCI 5220. Biology of the Mollusca (4)

Systematics, functional morphology, ecology, and physiology of the mollusca with emphasis on the marine forms. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: MSCI 3210 or consent of instructor. (MLML 222)

MSCI 5310. Advanced Marine Phycology (4)

Lecture-discussions in algal development, reproduction, and ecology. Extensive reading of original literature. Ecologically oriented individual research projects involving laboratory culture.
MSCI 5320. Advanced Marine Plankton (4)

Course emphasis on the physiology of phytoplankton and zooplankton. Students undertake individual research projects that include literature review, laboratory work, and oral and written reports. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: MSCI 3310. (MLML 231)

MSCI 5410. Marine Microorganisms (4)

A study of living and fossil microorganisms with emphasis on environmental significance. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: MSCI 3210 and college geology or consent of instructor. (MLML 241)

MSCI 5420. Continental Drift (3)

Historical background and modern theory of continental drift. Sea-floor spreading and general considerations on plate tectonics. (Lecture, 3 hours) Prerequisite: MSCI 3410 or consent of instructor. (MLML 242)

MSCI 5510. Marine Geochemistry (4)

Geochemical processes in the oceans: thermodynamics of low-temperature aqueous reactions, weathering, oxidation-reduction and biologically mediated reactions, processes occurring at the sea floor and air-sea interface. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: MSCI 3010, quantitative analysis, one year calculus, or consent of instructor. (MLML 251)

MSCI 5520. Topics in Marine Chemistry (4)

Selected topics dealing with the biochemistry or geochemistry of the oceans. May be repeated for credit. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: MSCI 3010 and consent of instructor. (MLML 252)

MSCI 5610. Descriptive Physical Oceanography (4)

The mathematical description of the distribution of properties (density, dissolved oxygen, etc.) in the oceans relating to physical and biochemical processes. Theory of distribution of variables, geotrophic method. (Lecture, 3 hours; lab or field, 3 hours) Prerequisite: MSCI 3010, one year calculus or consent of instructor. (MLML 261)
MSCI 5710. Population Biology (3)

Principles of the interaction among marine organisms which result in the alteration of population structures; techniques for assessment and management of animal populations. (Lecture 2 hours; lab or field, 3 hours) Prerequisite: MSCI 3030, 3040, or consent of instructor. (MLML 271)

MSCI 5730. Environmental Studies of Monterey Bay (3)

A research course in the advanced aspects of marine sciences, topics determined by consultation with faculty and dependent on facilities available. Laboratory and field studies will be carried out by individuals or as joint research projects by several individuals. Research topics to be concerned with local marine problems. (Lecture, 2 hours; lab or field, 3 hours) Prerequisites: MSCI 3030, 3040, or consent of instructor. (MLML 273)

MSCI 5770. Human Ecology of Monterey Bay (3)

Investigation and analysis of changes produced by human impacts on the coastal environment with emphasis on physiographic alterations and ecological implications. (Lecture, 2 hours; lab or field, 3 hours) Prerequisites: MSCI 3010, 3030, or consent of instructor. (MLML 277)

MSCI 5850. Graduate Seminar in Marine Biology (2)

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. May be repeated once for credit. Prerequisite: Consent of instructor. (MLML 285)

MSCI 5860. Graduate Seminar in Marine Geology (2)

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. May be repeated once for credit. Prerequisite: Consent of instructor. (MLML 286)

MSCI 5870. Graduate Seminar in Oceanography (2)

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. May be repeated once for credit. Prerequisite: Consent of instructor (MLML 287)

MSCI 5980. Research in the Marine Sciences (1-4)

Independent investigations of an advanced character for the graduate student with adequate preparation. Prerequisite: Consent of instructor. (MLML 298)
The Department of Mathematics offers courses in computer science, mathematics, operations research, and statistics. Courses are designed to provide quality undergraduate training in the mathematical sciences and to serve the needs of majors in mathematics, the natural and social sciences, and other fields. The degree programs of the Department of Mathematics provide preparation for various careers in the mathematical sciences.

The department offers the degrees Bachelor of Arts, and Bachelor of Science, Mathematics. Both degree programs can be used to acquire preparation for various careers in business, education, government, and industry. Both degree programs can be used to acquire preparation for advanced study in mathematics and/or its applications. The Bachelor of Science degree program is oriented more towards the various applications of mathematics. A student may focus on a specific career objective in the applications of mathematics by completing one of the concentrations in the Bachelor of Science degree program. An Environmental Sciences concentration is also available for mathematics majors in either the Bachelor of Arts or Bachelor of Science program.

The degree programs presuppose 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 one year of economic theory or one year of general physics.

The department also offers a concentration in Mathematics for the Bachelor of Arts degree in Liberal Studies.

REQUIREMENTS FOR THE BACHELOR OF ARTS OR THE BACHELOR OF SCIENCE IN MATHEMATICS

Mathematics majors are to:

1. Complete the college requirements for a bachelor's degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 24 upper division units as specified for the Bachelor of Arts degree. No more than 8 units of Winter Term or CR graded course work may apply toward the major.
4. Completion of a minor is not required.
DEGREE MAJOR FOR THE BACHELOR OF ARTS, MATHEMATICS

Prerequisites to the major:

MATH 1410, 1420. Calculus I, II, 8 units
MATH 1600. Statistics, 4 units
MATH 2000. Introduction to Computers, 3 units
MATH 2410. Multivariate Calculus, 4 units
MATH 2500. Elementary Linear Algebra, 3 units.

The Major

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<tr>
<th>Course</th>
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<tr>
<td>MATH 3060. Modern Geometry</td>
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<td>MATH 3500, 3501. Modern Algebra I, II</td>
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<tr>
<td>MATH 4100, 4101. Analysis I, II</td>
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DEGREE MAJOR FOR THE BACHELOR OF SCIENCE, MATHEMATICS

Prerequisites to the major:

MATH 1410, 1420. Calculus I, II, 8 units
MATH 2000. Introduction to Computers, 3 units
MATH 2010. Computer Programming, 2 units
MATH 2410. Multivariate Calculus, 4 units
MATH 2500. Elementary Linear Algebra, 3 units

Additional prerequisite to the major with an elective concentration in Operations Research:

MATH 1610. Statistics for Decision Making, 3 units

Additional prerequisite to the major with an elective concentration in Statistics:

MATH 1600. Statistics, 4 units
Mathematics

The Major

Two of the following year sequences of courses as approved by the major adviser ....... 16

MATH 3250, 3260. Ordinary Differential Equations, Partial Differential Equations, 8 units
MATH 3650, 3660. Probability & Statistics I, II, 8 units
MATH 4350, 4360. Numerical Analysis I, II, 8 units
MATH 4450, 4460. Introduction to Operations Research I, II, 8 units

Upper division courses in mathematics as approved by the major adviser ........ 8

Total .................................. 24

ELECTIVE CONCENTRATIONS WITHIN THE DEGREE MAJOR FOR THE BACHELOR OF SCIENCE, MATHEMATICS

A student who elects to have a concentration in Operations Research or Statistics may do so by completing the prerequisites to the major, the additional prerequisite to his elective concentration, the requirements for the major, and the requirements for this concentration.

OPERATIONS RESEARCH CONCENTRATION

Complete the requirements for the major so as to include:

Units
MATH 3200. Computer Simulation Techniques ........ 3
MATH 3500, 3501. Modern Algebra I, II .............. 6
MATH 4450, 4460. Introduction to Operations Research I, II ........... 8
Additional year sequence of courses from the requirements for the major ........ 8
Complementary study in operations research oriented, upper division courses as approved by the major adviser ........ 6

Total .................................. 31

STATISTICS CONCENTRATION

Complete the requirements for the major so as to include:

Units
MATH 3200. Computer Simulation Techniques ........ 3
MATH 3650, 3660. Probability & Statistics I, II .. 8

298
Mathematics

Units

MATH 4100, 4101. Analysis I, II ............... 6
Additional year sequence of courses from the
requirements for the major .................... 8
Complementary study in statistically oriented
research methods upper division courses as
approved by the major adviser ............... 6
Total ........................................ 31

DEGREE MINOR IN MATHEMATICS

Eighteen units, including at least 10 units in upper division.

MATH 1410, 1420. Calculus I, II, 8 units
Upper division courses in mathematics as approved by the minor
adviser, 10 units.

ENVIRONMENTAL SCIENCES CONCENTRATION

A mathematics major may complete additional requirements in
the sciences to qualify for a concentration in Environmental Sci­
ences in addition to the bachelor's degree. This program requires
study in biological sciences, chemistry, mathematics, and physical
sciences, along with an environmental seminar and investigation of
an environmentally related problem. Further details are found in
the Environmental Sciences section of this catalog.

LIBERAL STUDIES CONCENTRATION IN MATHEMATICS *

Units

MATH 3060. Modern Geometry .................. 3
MATH 3500, Modern Algebra I .................. 3
Upper division courses in mathematics as approved
by the major adviser .......................... 14
Total ........................................ 20

TEACHING CREDENTIALS

Majors in mathematics interested in multiple subject or single
subject credentials are referred to the Education section of the
catalog for a description of teaching credential programs.

MATHEMATICS SUB-AREAS

COMPUTER SCIENCE

MATH 1150. Conversational BASIC Programming, 2 units
MATH 1200. Computers and Society, 3 units

*MATH 1410, 1420. Calculus I, II, may substitute for MATH 1030,
1040 to fulfill Liberal Studies Area "B" requirements in mathe­
matics.
Mathematics

MATH 2000. Introduction to Computers, 3 units
MATH 2010. Computer Programming, 2 units
MATH 3200. Computer Simulation Techniques, 3 units
MATH 4200. Programming Languages & Data Structures, 3 units
MATH 4350. Numerical Analysis I, 4 units
MATH 4360. Numerical Analysis II, 4 units

OPERATIONS RESEARCH

MATH 4450. Introduction to Operations Research I, 4 units
MATH 4460. Introduction to Operations Research II, 4 units

STATISTICS

MATH 1600. Statistics, 4 units
MATH 1610. Statistics for Decision Making, 3 units
MATH 3650. Probability and Statistics I, 4 units
MATH 3660. Probability and Statistics II, 4 units

COURSE DESCRIPTIONS

Lower Division

MATH 1000. Math for Liberal Arts Students (3)

Sets, numeration systems, the systems of natural numbers, integers, rational numbers, and real numbers; selected topics from elementary number theory, probability, geometry, logic, and other areas of mathematics. Recommended for general students seeking an understanding of the nature of mathematics. Not open to students who have received credit for MATH 1410, MATH 1500, or their equivalent. Not applicable to the major or minor in Mathematics.

MATH 1030. Elementary Foundations of Mathematics I (3)

Elementary set theory, number systems, properties of real numbers, solutions of equations and inequalities. Recommended for students seeking an elementary teaching credential.

MATH 1040. Elementary Foundations of Mathematics II (3)

Continuation of MATH 1030. Functions and graphs, elementary probability and statistics, Euclidean geometry, measure, introduction to analytic geometry. Recommended for students seeking an elementary teaching credential. Prerequisite: MATH 1000 or MATH 1030.

MATH 1050. Basic College Algebra (3)

Exponents, fractions, radicals, elementary inequalities, polynomials, logarithmic and exponential equations, arithmetic and geometric series, binomial theorem. Prerequisite: One year of high school algebra or MATH 1000 or MATH 1030.
MATH 1100. Precalculus (3)

Coordinate systems, relations, functions, composite and inverse functions, introduction to analytic geometry, mathematical induction, circular and trigonometric functions, complex numbers, fundamental theorem of algebra. Prerequisite: Two years of high school algebra or MATH 1050.

MATH 1150. Conversational BASIC Programming (2)

An introduction to time-shared BASIC programming for all students. It will introduce BASIC programming concepts, acquaint the student with interactive terminal usage, the RSTS/E operating system and the use of predefined processes.

MATH 1200. Computers and Society (3)

To give a basic knowledge of computers and their present use, and to explore implications for our society. Topics covered will include an introduction to computers and the BASIC programming language with emphasis on social, political, and philosophical implications. (Lecture, 2 hours; laboratory, 2 hours)

MATH 1410. Calculus I (4)

Inequalities, functions and graphs, limits and continuity, the derivative, differentiation of algebraic functions, applications of differentiation, the definite integral, conic sections. Prerequisite: MATH 1100 or equivalent.

MATH 1420. Calculus II (4)

Trigonometric and exponential functions, parametric equations, through techniques of integration, applications of the definite integral, L'Hopital's rule, infinite series. Prerequisite: MATH 1410.

MATH 1500. Finite Mathematics (3)

Truth tables, deductive reasoning, algebra of sets, theory of partitions and counting, elementary probability theory, vectors and matrices, and application of matrix theory of Markov chains. Prerequisite: Two years of high school algebra or MATH 1050 or consent of instructor.

MATH 1600. Statistics (4)

Introductory course designed for students in the behavioral, biological, and social sciences. The description of sample data, probability and probability distributions, sampling and estimation, testing hypotheses, correlation and regression, introduction to analysis of variance. (Lecture, 3 hours; laboratory, 2 hours) Prerequisite: One year of high school algebra or MATH 1000 or MATH 1030.
Mathematics

MATH 1610. Statistics for Decision Making (3)

Introductory course for students in business administration. Organization and analysis of data, index numbers, elementary probability, distributions, sampling and estimation, correlation and regression, time series. Prerequisite: Two years of high school algebra or MATH 1050.

MATH 1910. Calculus with Applications I (3)

The fundamental concepts of calculus and their applications to problems in the behavioral, biological, chemical, decision, and social sciences will be introduced. Functions, graphs, limits, the derivative, applications of the derivative, definite integral. This course is not open to students who are seeking a Bachelor of Arts degree in mathematics, physical sciences, or physics; nor is it open to students seeking a Bachelor of Science degree in chemistry or mathematics. Prerequisite: MATH 1050.

MATH 1920. Calculus with Applications II (3)

Fundamental concepts of calculus and their applications to the behavioral, biological, chemical, decision, and social sciences will be introduced. Logarithmic and exponential functions, trigonometric functions, techniques of integrations, applications of the definite integral, introduction to calculus in higher dimensions. This course is not open to students seeking a Bachelor of Arts degree in mathematics, physical sciences, or physics; nor is it open to students seeking a Bachelor of Science degree in chemistry or mathematics. Prerequisite: MATH 1910 or MATH 1410.

MATH 2000. Introduction to Computers (3)

This course includes history of development, principles of operation, development of programming skills, actual and possible applications. The language used will be FORTRAN and/or BASIC. (Lecture, 2 hours; laboratory, 2 hours) Prerequisite: MATH 1050 or two years of high school algebra.

MATH 2010. Computer Programming (2)

A continuation of MATH 2000 with emphasis on more sophisticated applications of programming and use of the capabilities of the computer. Laboratory projects will involve the student's area of interest when possible. (Lecture, 1 hour; laboratory, 2 hours). Prerequisite: MATH 2000 or equivalent.

MATH 2410. Multivariate Calculus (4)

Vectors in three dimensions, solid analytic geometry, partial differentiation, multiple integration, differentiation under the integral sign, vector field theory. Prerequisite: MATH 1420.
MATH 2500. Elementary Linear Algebra (3)

Vector spaces, matrices, linear transformations, determinants, systems of linear equations, selected applications. (Formerly 2420) Prerequisite: MATH 1420.

MATH 2950. Selected Topics in Mathematics (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of mathematics. Topics vary each term. Different topics may be taken for credit. Prerequisites: Sophomore standing and consent of instructor.

MATH 2970. Selected Topics offered during Winter Term (4)

Upper Division

MATH 3060. Modern Geometry (3)

Axiom systems for Euclidean and non-Euclidean geometries, construction of geometries from fields, isometries in the Euclidean plane, geometric constructions. Prerequisite: MATH 1420.

MATH 3200. Computer Simulation Techniques (3)

Introduction to simulation, planning computer simulation experiments, simulation models. Simulation methodology, design of experiments, analysis of data, validation of models and results. Programming selected applications. (Lecture, 2 hours; laboratory, 2 hours) Prerequisites: MATH 1600 or 1610 or ECON 3200, and MATH 2000.

MATH 3250. Ordinary Differential Equations (4)

Linear ordinary differential equations, existence and uniqueness series solutions, special functions, Laplace transforms, systems of linear equations. Prerequisite: MATH 1420.

MATH 3260. Partial Differential Equations (4)

Basic concepts, first order partial differential equations, classification of second order equations, initial value problems for wave equation, boundary value problems for Laplace and heat equations, maximum principle, existence and uniqueness theorems, applications. Prerequisite: MATH 2410 or consent of instructor.

MATH 3300. Introduction to General Topology (3)

Naive set theory, metric spaces, separation properties, continuous functions, connectedness, compactness, completeness, general topological spaces, selected applications. (Formerly 332) Prerequisite: MATH 2410.
Mathematics

MATH 3500. Modern Algebra I (3)

Naive set theory, real and complex numbers, groups, rings, integral domains, fields, polynomials, solvability, selected applications from automata theory. (Formerly 3550) Prerequisite: MATH 1420.

MATH 3501. Modern Algebra II (3)

Continuation of MATH 3500. (Formerly 3560) Prerequisite: MATH 3500.

MATH 3502. Linear Algebra (3)

Vector spaces, linear transformations, canonical forms, innerproduct spaces, spectral theorem, selected applications. Prerequisite: MATH 3500.

MATH 3650. Probability and Statistics I (4)

Concept of probability; concepts of random variables, expected values, variance and covariance; continuous probability distributions, binomial distribution and its limiting cases, normal distribution and Poisson distribution, Markov chains. Prerequisite: MATH 1420 or consent of instructor.

MATH 3660. Probability and Statistics II (4)

Sampling and sampling distributions, decision theory, estimation, testing hypothesis, simple linear regression, queuing theory. Prerequisite: MATH 3650.

MATH 4100. Analysis I (3)

Sequences, limit theorems, continuity, differentiation, Riemann-Stieltjes integral. (Formerly 4150) Prerequisite: MATH 2410.

MATH 4101. Analysis II (3)

Multiple integration, uniform convergence, vector and tensor analysis, inverse and implicit function theorems. (Formerly 4160) Prerequisite: MATH 4100.

MATH 4102. Lebesgue Integral (3)

Lebesgue measure on the real line and $\mathbb{R}^n$. The Lebesgue integral, convergence theorems, $L^p$ spaces. Prerequisite: MATH 4101.
MATH 4200. Programming Languages and Data Structures (3)

Formal definition of grammar and language symbols and strings. Syntax and semantics of simple statements and expressions, precedence operators and grammars, syntactic analysis of precedence grammars, structure of algorithmic languages, basic concepts of data, lists, arrays, trees, and graphs. Storage systems and structures, storage allocation and collection. Symbol tables, searching and sorting techniques. Prerequisite: MATH 2010. MATH 3200 recommended.

MATH 4350. Numerical Analysis I (4)

Floating point arithmetic, errors, the solution of nonlinear equations, matrices and systems of linear equations, nonlinear systems, interpolation. Prerequisites: MATH 1420 and MATH 2000.

MATH 4360. Numerical Analysis II (4)

Numerical differentiation and integration, numerical solution of differential equations and boundary value problems, approximation. Prerequisite: MATH 4350.

MATH 4450. Introduction to Operations Research I (4)

Vectors and matrices, classical optimization methods, theory of the simplex method, duality, post-optimal analysis. Prerequisites: MATH 1420 and 2000, or consent of instructor.

MATH 4460. Introduction to Operations Research II (4)

Special types of linear programming, network analysis, dynamic programming, game theory, advanced topics in linear programming, integer programming. Prerequisite: MATH 4450.

MATH 4500. Theory of Numbers (3)

Euclid's algorithm and fundamental theorems on divisibility, prime numbers, congruence of numbers, theorems of Fermat, Euler, and Wilson, congruence of first and higher degrees, Lagrange's theorem and its applications, quadratic residues. Prerequisite: MATH 1420.

MATH 4600. Complex Variables (3)

Complex numbers, analytic functions, Cauchy-Riemann equations, Cauchy theorem, Laurent series, calculus of residues, selected applications. Prerequisite: MATH 2410.

MATH 4840. Mathematics for Business (3)

Selected topics in mathematics which have special applications in business administration. Topics include: elementary set
Mathematics

theory, limits, differentiation, integration, maxima-minima, linear systems, matrices. (Formerly 484) Prerequisite: High school algebra or consent of instructor.

MATH 4950. Selected Topics in Mathematics (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of mathematics. Topics vary each term. Different topics may be taken for credit. Prerequisites: Senior standing and consent of instructor.

MATH 4960. Seminar in Mathematics (2)

Presentation and discussions of selected topics in mathematics from the current literature. Prerequisite: Consent of instructor.

MATH 4970. Selected Topics offered during Winter Term (4)

MATH 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Senior standing and consent of instructor.

MATH 5980. Individual Study (1-4)

For qualified postbaccalaureate students in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Postbaccalaureate standing and consent of instructor.

Professional Postgraduate

MATH 6030. Foundations of Mathematics I (3)

Elementary set theory, mappings, elementary number theory, structure of the real number system, equations, and inequalities. Recommended for elementary teachers who hold the bachelor degree and who wish to qualify for the Standard Teaching Credential.

MATH 6040. Foundations of Mathematics II (3)

Metric and nonmetric geometry, introduction to analytic geometry, functions and graphs, mathematical systems, probability. Recommended for elementary and junior high school teachers seeking an advanced course in mathematics.

MATH 6980. Individual Study (1-4)

For qualified postbaccalaureate students in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Postbaccalaureate standing and consent of instructor.
Multidisciplinary Studies

The College offers multidisciplinary courses outside the departmental and school structure. These courses are given the MDIS prefix.

COURSE DESCRIPTIONS

MDIS 2000. Library Resources for Contemporary Issues (1)

Library resources for research through investigation into contemporary issues such as energy crisis, impeachment, minorities, prison reform, and women's rights.

MDIS 2970. Selected Topics offered during Winter Term (4)

MDIS 3500. The Technological Society (3)

An interdisciplinary analysis of the social and ecological crises caused by the exponential growth of science and technology. The issues—population, energy, alienation, pollution, etc.—are examined on the global, national, and local levels.

MDIS 4960. Seminar in Technology and Society (3)

Reading, papers, and discussion on the societal, ecological, and philosophical issues raised by contemporary science and technology. Prerequisite: MDIS 3500 or consent of instructor.

MDIS 4970. Selected Topics offered during Winter Term (4)
Music

Joseph E. Bruggman, Ed.D., Professor, Chairman
Paul O. Harder, Ph.D., Professor
Gene C. Wisler, Ed.D., Professor
Sylvia M. Ghiglieri, M.M., Professor
R. Scott Coulter, Ph.D., Associate Professor
Gary L. Unruh, D.M.A., Associate Professor
William A. Gora, D.M.A., Assistant Professor

The Department of Music offers the degree Bachelor of Arts, Music. Completion of the major in music prepares a student to apply for admission to the teaching credential program, to apply for graduate level study, or to pursue a career in professional performance, dependent upon specific area of specialization and student interest. Emphasis is placed on the cultivation of individual student potential through study and experience in analysis, performance, theory, history, literature, and composition. Courses in music also provide cultural and aesthetic enrichment for the student in liberal arts.

Requirements for the Bachelor of Arts, Music

Music majors are to:

1. Complete requirements for the Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 30 upper division semester units; of these no more than 10 units of CR graded course work may apply toward the major.
4. Completion of a minor is not required.

General Requirements for Music Major and Minor

1. All students contemplating a major or minor in music are required to declare a major performing medium (voice, keyboard, or orchestral instrument) upon entering the program, and will take studio instruction in their major performing medium in accordance with the Degree Major in Music and the Degree Minor in Music. Fifth year credential students are eligible for studio instruction in their major performing medium providing they participate in at least one major performing group in which their major performing medium is utilized.
2. Proficiency tests in piano, singing, sightreading, ear training, theory, and major instrument are required of all transfer students contemplating a major or minor in music. These tests will be taken during the first week of the first term in residence. Students whose scores indicate a degree of inadequacy will be required to enroll in appropriate lower division courses until minimum standards are achieved.
3. Lower division students will be evaluated during the final semester of the sophomore year for admission to the upper division music major program. Upper division transfer students will be evaluated during the latter part of the first semester in which they enroll in music courses in the College. Evaluation will be based upon lower division course work completed in music, and auditions in the major performing mediums by a committee of the music faculty. Unless standards of performance acceptable to the music faculty have been attained, students may not enroll for upper division courses in music.

4. Students are required to perform in recital each semester as part of a course in applied music as determined by the instructor.

5. Music majors are expected to attend departmental recitals and concerts.

6. All music majors are required to demonstrate an acceptable level of performance skill in both piano and voice. Lower division students must fulfill these requirements by the end of the sophomore year. Students transferring in at the upper division level must complete these requirements by the end of the junior year. Class instruction is offered at the beginning level in both piano and voice. Students must consult their advisers for specific requirements.

7. The music major is required to participate in at least one major performing group (chorale, symphonic wind ensemble, or orchestra) each term, utilizing his major performing medium. Keyboard majors must consult their adviser regarding this requirement.

8. All music majors and minors will demonstrate proficiency on their instrument or voice before a panel of faculty members at the conclusion of each term of applied study.

9. All music majors are required to present themselves in solo or chamber ensemble recital during the senior year.

DEGREE MAJOR IN MUSIC

Prerequisites to the Major

MUS 1020. Freshman Music Seminar, 1 unit
MUS 1220, 1230. Theory I, II, 6 units
MUS 2220, 2230. Theory III, IV, 6 units
MUS 2400, 2410, 2440. Major Group Performance, 4 units
MUS 2610, 2640, 2670. Applied Music, 4 units
MUS 2900. Music History & Literature I, 3 units

Demonstration of functional proficiency in basic voice and basic piano (see No. 6 under "General Requirements for Music Majors and Minors").
The Major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 3100</td>
<td>Music History &amp; Literature II, III</td>
<td>6</td>
</tr>
<tr>
<td>MUS 3250</td>
<td>18th Century Counterpoint</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3260</td>
<td>Form and Analysis</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3270</td>
<td>Basic Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 4400, 4410, 4440</td>
<td>Major Group Performance</td>
<td>4</td>
</tr>
<tr>
<td>MUS 4610, 4640, 4670</td>
<td>Applied Music</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one of the following emphases: (a music major pursuing work toward a teaching credential must complete an emphasis in either vocal or instrumental).

<table>
<thead>
<tr>
<th>Emphasis</th>
<th>Course Code</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td><strong>Choral/Vocal Emphasis</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 3280. Choral Conducting, 2 units</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>MUS 4570. Vocal/Choral Literature Seminar,</td>
<td></td>
<td>3</td>
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<tr>
<td>Electives as approved by major adviser, 5 units</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(The credential music major is required to complete MUS 3670, Instrumental Techniques, 3 units; and MUS 3650, String Techniques I, 1 unit; and a one-unit elective in place of the five units of electives.)</td>
<td></td>
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</tr>
<tr>
<td><strong>Instrumental Emphasis</strong></td>
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<tr>
<td>MUS 3240. Orchestration, 2 units</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>MUS 3290. Instrumental Conducting, 2 units</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Electives as approved by major adviser, 6 units</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(The credential music major is required to complete MUS 3650, 3660, String Techniques I, II, 2 units, and MUS 3670, Instrumental Techniques, 4 units, in place of the 6 units of electives.)</td>
<td></td>
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</tr>
<tr>
<td><strong>Keyboard Emphasis</strong></td>
<td></td>
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</tr>
<tr>
<td>MUS 3450. Piano Literature, 2 units</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>MUS 3460. Harpsichord Literature, 2 units</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>MUS 3620. Accompanying, 2 units</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Electives, 4 units</td>
<td></td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

**DEGREE MINOR IN MUSIC**

Twenty-eight units, of which 8 units must be in upper division.

Lower Division

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 1000</td>
<td>Introduction to Music, 3 units</td>
<td>3</td>
</tr>
<tr>
<td>MUS 1220, 1230</td>
<td>Theory I, II, 6 units</td>
<td>6</td>
</tr>
<tr>
<td>MUS 2900.</td>
<td>Music History &amp; Literature I, 3 units</td>
<td>3</td>
</tr>
</tbody>
</table>
Music

MUS 2400, 2410, 2420, 2440. Major Group Performance, 4 units
MUS 2620, 2630, 2670. Applied Music, 4 units
(Applied Music may be fulfilled at upper division level by students who qualify at that level.)

Upper Division

MUS 3100, 3200. Music History & Literature II-III, 6 units
Electives as approved by the minor adviser, 2 units

LIBERAL STUDIES CONCENTRATION IN MUSIC

Twenty units, of which 15 units must be upper division.

Lower Division

Five units selected from the following and approved by the concentration adviser ............... 5

*MUS 1000. Introduction to Music, 3 units
MUS 1610. Basic Class Piano, 1 unit
MUS 1620. Basic Class Guitar, 1 unit
MUS 1630. Basic Class Voice, 1 unit
MUS 2400, 2410, 2420, 2440. Major Group Performance, 1 unit each
Electives in music.

Upper Division

Fifteen units selected from the following and approved by the concentration adviser ........... 15

MUS 3270. Basic Conducting, 2 units
MUS 3350. Music in Elementary School, 3 units
MUS 3400. American Music, 2 units
MUS 3650, 3660. String Technique I, II, 1 unit each
MUS 3670. Instrumental Techniques, 1 unit
MUS 4400, 4410, 4420, 4440. Major Group Performance, 1 unit each.
Electives in music.

Total .................................. 20

TEACHING CREDENTIALS

Music majors interested in multiple subject or single subject credentials are referred to the education section of the catalog for a description of teaching credential programs.

*MUS 1000 may not apply toward the twenty units of the concentration if used to satisfy Liberal Studies Area C requirements.

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It is possible to complete the credential program (preliminary credential) in four years.

**General Education** .................................................. 40
**Music Major** .......................................................... 54
**Education (Includes student teaching & course work)** ...... 24

**Music Education:**

- MUS 3340. Music in Elementary School ......................... 3
- MUS 3370. Curriculum & Instruction: Music ....................... 3

**Total** ................................................................. 124

**MUSIC COURSES FOR NON-MAJORS**

For the student not majoring in music, the Music Department offers courses for cultural and aesthetic enrichment:

- MUS 1000. Introduction to Music
- MUS 1190. Music Fundamentals
- MUS 1610. Basic Class Piano
- MUS 1620. Basic Class Guitar
- MUS 1630. Basic Class Voice
- MUS 3400. American Music
- MUS 3410. History of Jazz

The general student is welcome to participate in the various performance courses (chorale, college choir, symphonic wind ensemble, jazz ensemble, orchestra and small ensembles).

**COURSE DESCRIPTIONS**

**Lower Division**

**MUS 1000. Introduction to Music (3)**

A course for the general student, tracing the growth and development of music through history from early times to the present. Emphasis is placed on becoming acquainted through listening and analysis with representative forms, styles, and techniques of the various historical periods in music. No prerequisite.

**MUS 1020. Freshman Music Seminar (1)**

Introducing the freshman music student to standard concert repertoire. Prerequisite: Music major or minor.

**MUS 1190. Music Fundamentals (3)**

A beginning course in music reading, notation, intervals, scales, and theory. Designed primarily for the student pursuing the liberal studies major, the general student, and the music student who does not qualify for enrollment in MUS 1220. No prerequisite.
MUS 1220. Theory I (3)

Review and study of rudiments of music notation, scales, key signatures, intervals, triads, and inversion of triads. Emphasis is placed on analysis and creation of melodies based upon techniques of the various musical periods, sight-singing, and dictation. Drill in rhythms will also be stressed. (Formerly 101, 122) Prerequisite: Ability to read treble and bass clefs.

MUS 1230. Theory II (3)

Continuation of MUS 1220; beginning with construction of an underlying tonal harmonic (triadic) continuum. Emphasis will be on chord connection, employment of triadic inversions, and study of basic harmonic rhythm leading to the creation of two-, three-, and four-part textures within a harmonic fabric. Work in aural perception will include recognition of harmonic motion plus more sophisticated rhythmic drills. (Formerly 122, 123) Prerequisite: MUS 1220.

MUS 1610. Basic Class Piano (1)

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 4 units. No prerequisite.

MUS 1620. Basic Class Guitar (1)

A basic course in simple guitar skills designed for those who may or may not have any previous musical training. May be repeated for a total of 2 units. No prerequisite.

MUS 1630. Basic Class Voice (1)

Introduction to singing and vocal technique, posture, breathing, and tone production. Problems of tension and relaxation. May be repeated for a total of 4 units. (Formerly 164) No prerequisite.

MUS 2220. Theory III (3)

Continuation of MUS 1230. Emphasis will be on an understanding of 19th century harmonic practice, i.e., utilization of varied seventh and ninth chords, and work in advanced modulation procedures and more sophisticated harmonic progressions. Writing for the keyboard and for other instrumental and vocal combinations will be encouraged. Works from Beethoven through Franck will be analyzed and extensive time will be spent creating original works in conscious imitation of various 19th century styles. (Formerly 3220) Prerequisite: MUS 1230.
MUS 2230. Theory IV (3)

Continuation of MUS 2220. Completed exploration of tertial harmony; ninth, eleventh, and thirteenth chords. Examination of impressionistic devices, quartal harmony, nontonal and atonal compositional processes. Emphasis upon 20th century Western music. Numerous original compositions required. Advanced ear training exercises. (Formerly 5230) Prerequisite: MUS 2220.

MUS 2400. Orchestra (1)

The study and performance of standard orchestra music. Students will participate in all public performances. May be repeated for a total of 8 units. (Formerly 268) Prerequisite: An acceptable degree of performance skill.

MUS 2410. Chorale (1)

Study and performance of choral masterworks. Open to all students. A voice test will be given. Students will participate in all public performances. May be repeated for a total of 8 units. Prerequisites: Ability to read music and an acceptable singing voice.

MUS 2420. College Choir (1)

A general chorus open to all students. Study of standard choral literature; classical, semi-classical, popular. May be repeated for a total of 8 units. No prerequisite.

MUS 2430. Chamber Singers (1)

Study and performance of choral works for small chamber ensemble, including the motets and madrigals of Renaissance and early Baroque composers. Selected works from other musical periods will also be studied and performed. Student conducting will be encouraged. May be repeated for a total of 8 units. Prerequisites: Ability to read music and consent of instructor.

MUS 2440. Symphonic Wind Ensemble (1)

Study and performance of materials for the wind band, and for various combinations of wind and percussion instruments. Students will participate in all public performances. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill.

MUS 2480. Jazz Ensemble (1)

Study and performance of materials for the jazz ensemble. Students will participate in jazz concerts and study improvisation. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill.
MUS 2490. Vocal Ensemble (1)

Study and performance of small ensemble literature for two or more voices. This course will from time to time undertake the performance of chamber operas. Prerequisite: Consent of instructor.

MUS 2500. Brass/Woodwind Chamber Ensemble (1)

Study and performance of materials for small brass and woodwind ensembles. Students will participate in public performances. May be repeated for a total of 8 units. (Formerly 2460 and 2470) Prerequisites: An acceptable degree of performance skill and consent of instructor.

MUS 2610. Intermediate Keyboard (1)

For music majors whose performance medium is a keyboard instrument. Study and performance of representative literature from Baroque to Contemporary. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

MUS 2620. Intermediate Class Piano (1)

For general students, music minors, and music majors whose performance area is not piano. Keyboard experience in reading and playing music of intermediate level, such as the Bach inventions, sonatinas, and easier sonatas. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

MUS 2630. Intermediate Class Voice (1)

Continuation of MUS 1630. Study of the easier song literature of such composers as Brahms, Schumann, Barber, and others. For general students, music minors, and music majors whose performance medium is not voice. May be repeated for a total of 4 units. Prerequisite: MUS 1630 or consent of instructor.

MUS 2640. Intermediate Voice (1)

Continuation of MUS 1630. Development of expressive singing for solo and ensemble performance. For music majors whose performance medium is voice. May be repeated for a maximum of 6 units. Prerequisite: Consent of instructor.

MUS 2650. Intermediate Class Guitar (1)

A course for the student with a fundamental background in guitar playing. Prerequisite: MUS 1620 or equivalent or consent of instructor.

MUS 2670. Intermediate Orchestral Instruments (1)

Instruction in orchestral instruments: strings, woodwind,
brasses, and percussion. For music majors whose performing medium is in one of these categories. May be repeated for a total of 8 units. Prerequisite: Consent of instructor.

MUS 2900. Music History and Literature I (3)

A survey of music history and literature spanning antiquity through the Renaissance. Designed primarily for music majors and minors. Prerequisite: Consent of instructor.

MUS 2950. Selected Topics in Music (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of music. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

MUS 2970. Selected Topics during Winter Term (4)

Upper Division

MUS 3100. Music History and Literature II (3)

A survey of music history and literature spanning the Baroque and Classical periods. (Formerly 2910) Prerequisite: Consent of instructor.

MUS 3200. Music History and Literature III (3)

A survey of music history and literature spanning the Romantic period and the twentieth century. (Formerly 3380) Prerequisite: Consent of instructor.

MUS 3240. Orchestration (2)

The study and application of scoring techniques for small and large ensembles with particular attention to tone colors and combinations of instruments. Prerequisite: MUS 2230 or consent of instructor.

MUS 3250. 18th Century Counterpoint (2)

Counterpoint, 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, emphasis on creative writing in contrapuntal two- and three-part forms. (Formerly 320) Prerequisite: MUS 2230.

MUS 3260. Form and Analysis (2)

Analysis of various types of musical structure including large forms; emphasis on the comparison of styles and the development of an ability to write in various forms. (Formerly 321) Prerequisite: MUS 2230.
MUS 3270. Basic Conducting (2)

The study and development of basic elements of conducting and fundamental score reading applicable to both vocal and instrumental ensembles. Prerequisites: Ability to read music and consent of instructor.

MUS 3280. Choral Conducting (2)

A continuation of MUS 3270 with emphasis on performance of standard choral literature. Study and application of the interpretive aspect of conducting. (Formerly 326) Prerequisite MUS 3270 and consent of instructor.

MUS 3290. Instrumental Conducting (2)

A continuation of MUS 3270 with emphasis on performance of standard instrumental literature. Study and application of the interpretive aspect of conducting. (Formerly 325) Prerequisites: MUS 3270 and consent of instructor.

MUS 3340. Music in Elementary School (3)

A study of music experience for children, preschool through sixth grade. (Formerly 3350 and 3360) Prerequisite: MUS 1190 or ability to read music.

MUS 3370. Curriculum and Instruction: Music (3)

Contemporary trends in music education in the secondary school. Curriculum development, selection and organization of materials, and teaching techniques. (Formerly 336) Prerequisites: Consent of credential adviser and instructor. (Same as EDUC 3220)

MUS 3400. American Music (2)

A comprehensive survey and study of the music of the United States and the contributions of American composers from the American Revolution to the present. Prerequisites: MUS 1000 or equivalent, junior standing.

MUS 3410. History of Jazz (2)

An introduction to jazz with concentration on its evolution and its development in the United States. (Formerly 231) Prerequisites: MUS 1000 or equivalent, junior standing.

MUS 3450. Piano Literature (2)

Study of selected major piano works of representative master composers from Bach to the present. Discussion of the practical procedures for teaching piano in the smaller works of piano repertoire. Prerequisites: Junior standing and consent of instructor.
MUS 3460. Harpsichord Literature (2)

A study of the various styles and forms of harpsichord literature from the 16th century through the 18th century with some performance of smaller pieces. Prerequisites: Junior standing and consent of instructor.

MUS 3620. Accompanying (1)

Techniques of accompanying for various performance media. Reading skills are stressed. Students are assigned to work with other student performers or classes. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

MUS 3650. String Technique I (1)

Development of basic technique of playing violin and viola. Prerequisite: Consent of instructor.

MUS 3660. String Technique II (1)

Continuation of MUS 3650; emphasis will be on technique of playing cello and double bass. Prerequisite: MUS 3650 or consent of instructor.

MUS 3670. Instrumental Techniques (1)

A four-term sequence covering basic brass, woodwind, and percussion instruments for students planning to enter the teaching credential program and for the music student who wishes to study a secondary musical instrument. May be repeated for a total of 4 units. (Formerly 367, 368, 369, 370) Prerequisite: Consent of instructor.

MUS 4200. Composition (2)

Composition in various styles, textures, and instrumental and vocal combinations. The nature and scope of projects will be determined by discussion between instructor and student and will be compatible with the student's needs and abilities. Public performance of original works will be encouraged. May be repeated for a total of 8 units. (Formerly 4210 and 4220) Prerequisite: Consent of instructor.

MUS 4400. Orchestra (1)

The study and performance of standard orchestra music. Students will participate in all public performances. May be repeated for a total of 8 units. (Formerly 468) Prerequisite: An acceptable degree of performance skill.
**Music**

MUS 4410. Chorale (1)

Study and performance of choral masterworks. Open to all students. A voice test will be given. Students will participate in all public performances. May be repeated for a total of 8 units. Prerequisites: Ability to read music and an acceptable singing voice.

MUS 4420. College Choir (1)

A general chorus open to all students. Study of standard choral literature; classical, semi-classical, popular. May be repeated for a total of 8 units. No prerequisite.

MUS 4430. Chamber Singers (1)

Study and performance of choral works for small chamber ensemble including the motets and madrigals of Renaissance and early Baroque composers. Selected works from other musical periods will also be studied and performed. Student conducting will be encouraged. May be repeated for a total of 8 units. Prerequisites: Ability to read music and consent of instructor.

MUS 4440. Symphonic Wind Ensemble (1)

Study and performance of materials for the wind band, and for various combinations of wind and percussion instruments. Students will participate in all public performances. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill.

MUS 4480. Jazz Ensemble (1)

Study and performance of materials for the jazz ensemble. Students will participate in jazz concerts and study improvisation. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill.

MUS 4490. Vocal Ensemble (1)

Study and performance of small ensemble literature for two or more voices. This course will from time to time undertake the performance of chamber operas. Prerequisite: Consent of instructor.

MUS 4500. Brass/Woodwind Chamber Ensemble (1)

Study and performance of materials for small brass and woodwind ensembles. Students will participate in all public performances. May be repeated for a total of 8 units. (Formerly 4460 and 4470) Prerequisites: An acceptable degree of performance skill and consent of instructor.
MUS 4550. Instrumental Literature Seminar (3)

Study of literature for orchestra, band, chamber groups, and solo playing, elementary through advanced levels. Attention given to both class and private instructional needs. (Formerly 450) Prerequisite: Consent of instructor.

MUS 4570. Vocal/Choral Literature Seminar (3)

A comprehensive survey of vocal music suitable for large and small choral organizations; music for madrigal groups and glee clubs, plus solo material for various vocal categories. (Formerly 451) Prerequisite: Consent of instructor.

MUS 4610. Advanced Keyboard (1)

For music majors whose performance medium is a keyboard instrument. 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 8 units. Prerequisite: Consent of instructor.

MUS 4640. Advanced Voice (1)

Vocal technique for the advanced student; study of German lieder, French and Italian repertoire, and solo material in cantata, oratorio, and opera. For music majors and minors whose performance medium is voice. May be repeated for a total of 8 units. Prerequisite: MUS 2640 or equivalent.

MUS 4670. Advanced Orchestral Instruments (1)

Advanced instruction in orchestral instruments: strings, woodwinds, brasses, and percussion. For music majors whose performance medium is in one of these categories. May be repeated for a total of 8 units. Prerequisite: Consent of instructor.

MUS 4950. Selected Topics in Music (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of music. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

MUS 4960. Senior Seminar (4)

Individual research in specific problems; emphasis on introduction to musicology. A comprehensive examination and research paper are part of completion of the course. Prerequisites: Senior standing and consent of instructor.
Music

MUS 4970. Selected Topics during Winter Term (4)

MUS 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

MUS 5980. Individual Study (1-4)

For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.
Nursing

B.S. IN NURSING PROGRAM

The College is currently developing a baccalaureate program in nursing for registered nurses who have completed basic nursing studies. The upper division major being planned will lead to a B.S. in Nursing. Requirements for the degree and criteria for admission to the program will be determined during the 1976-77 academic year. Final approval for the program being developed must be obtained from The California State University and Colleges and the California Post-Secondary Education Commission before students can be admitted to the nursing major.

It is anticipated that the first nursing courses will be offered in Fall 1977. Students admitted to the nursing program must complete College requirements for the baccalaureate degree and Department requirements for the nursing major. Registered nurses interested in the program may be admitted to the College at any time to pursue studies towards the baccalaureate degree. Admission to the College, however, does not guarantee admission to the upper division nursing major. At present, students may select: 1) any major currently offered by the College, or 2) an undeclared major, with Nursing as the intended field of study.

PRE-NURSING

The College offers courses which prepare students for admission to basic nursing programs in community colleges, four-year colleges, and hospital schools of nursing. Students considering a career in nursing should contact the nursing faculty for assistance in planning their pre-nursing program.

FURTHER INFORMATION on the nursing major and the pre-nursing curriculum may be obtained from the Admissions Office of the College, phone number 209/633-2151.
Philosophy

William H. Hayes, Ph.D., Professor

Philosophy's subject matter is the critical analysis of, and rational reflection on, persistent human problems of knowledge, of existence, of conduct, of art, and of religion. Courses offered present both the analytical and speculative aspects of philosophy, including as they do study of outstanding historical and contemporary philosophical statements, as well as practice of the analytical and argumentative techniques needed to discern, formulate, and defend philosophical principles of one's own.

The curriculum in philosophy is conceived as contributing to broad, general education in the liberal arts. It can provide for any student an adequate component of philosophy whether pursued as a supplement to major studies, undergraduate or graduate, or for the values of philosophy itself.

DEGREE MINOR IN PHILOSOPHY

Fifteen units, including nine in upper division courses, distributed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1010. Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>or PHIL 1100. Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2200. Ancient Greek Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>or PHIL 2230. Seventeenth &amp; Eighteenth Century Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3300. Theory of Knowledge</td>
<td>4</td>
</tr>
<tr>
<td>or PHIL 3400. Ethics</td>
<td>4</td>
</tr>
<tr>
<td>or HIST 3890. The Oriental Mind</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 4250. Recent &amp; Contemporary Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>or PHIL 4450. Philosophy of Religion</td>
<td>3-4</td>
</tr>
<tr>
<td>or PHIL 4500. Aesthetics</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 4980. Individual Study</td>
<td>1-2</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

LIBERAL STUDIES CONCENTRATION IN PHILOSOPHY

Twenty-one units distributed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*PHIL 1010. Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>or *PHIL 1100. Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

* May not apply toward the concentration if used to satisfy Liberal Studies Area C requirements.
PHIL 2200. Ancient Greek Philosophy, 3 units
or PHIL 2230. Seventeenth & Eighteenth Century Philosophy, 3 units........... 3

PHIL 3300. Theory of Knowledge, 4 units
or PHIL 3400. Ethics, 4 units
or HIST 3890. The Oriental Mind, 4 units........ 4

PHIL 4250. Recent & Contemporary Philosophy............. 4
PHIL 4450. Philosophy of Religion....................... 3
PHIL 4500. Aesthetics......................................... 4

Total......................................................... 21

TEACHING CREDENTIALS

Students who wish to offer philosophy as a subject area for a teaching credential should consult with advisers in both philosophy and education to plan an appropriate program of studies.

COURSE DESCRIPTIONS

Lower Division

PHIL 1010. Introduction to Philosophy (3)

Introduction to philosophical method by examining traditional and contemporary philosophical problems.

PHIL 1100. Logic (3)

Analysis of the methods and principles of deductive reasoning, including traditional logic; introduction to symbolic logic and to inductive argument. (Formerly 110 & 111)

PHIL 2200. Ancient Greek Philosophy (3)

A general survey of the history of Western philosophy from the pre-Socratic to the end of the Classical Period. (Formerly 250)

PHIL 2230. Seventeenth & Eighteenth Century Philosophy (3)

A general survey of the history of Western philosophy from the Renaissance through the Eighteenth Century. (Formerly 252)

PHIL 2950. Selected Topics in Philosophy (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in philosophy. Topics vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

PHIL 2970. Selected Topics offered during Winter Term (4)
Philosophy

Upper Division

PHIL 3000. Humanistic Inquiry (3)

Nature and interrelationships of the humanistic disciplines, including the performing and creative arts, and their relations with the natural and social sciences. Prerequisite: At least one course in each of three of the following fields: art, drama, foreign languages and literature, music, philosophy.

PHIL 3300. Theory of Knowledge (4)

Analysis of the concepts of knowledge, truth, belief, evidence, certainty; readings in classical and contemporary theories. (Formerly 320) Prerequisites: 3 units in philosophy and upper division standing.

PHIL 3400. Ethics (4)

Analysis of the concepts of right and wrong, good and bad, utility and duty, freedom, obligation, responsibility; readings in classical and contemporary theories. Prerequisites: 3 units in philosophy and upper division standing.

PHIL 4250. Recent and Contemporary Philosophy (4)

A general survey of the history of Western philosophy from the end of the Enlightenment to the present day. Prerequisites: 3 units in philosophy and upper division standing.

PHIL 4450. Philosophy of Religion (3)

Analysis of religious concepts with emphasis on the logic of religious discourse. (Formerly 302 & 303) Prerequisites: 3 units in philosophy and upper division standing.

PHIL 4500. Aesthetics (4)

Philosophy of art; analysis of aesthetic experience; principles of criticism. (Formerly 346 & 347) Prerequisites: 3 units in philosophy and upper division standing.

PHIL 4950. Selected Topics in Philosophy (Topics to be specified in Class Schedule) (1-5)

Development of a selected topic in philosophy. Topics vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

PHIL 4970. Selected Topics offered during Winter Term (4)
PHIL 4980. Individual Study (1-4)

For undergraduate students prepared for independent study to supplement regular course offerings. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

PHIL 5980. Individual Study (1-4)

For postbaccalaureate students prepared for independent work, and in need of advanced and specialized study in philosophy. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.
Physical Education and Health

Armin P. Pipho, Ph.D., Associate Professor, Chairman
Zaki I. Habashi, Ed.D., Professor
James C. Bowen, Ph.D., Associate Professor
Richard D. Conant, Ph.D., Associate Professor
James K. Hanny, Ed.D., Associate Professor
William M. Morris, Ed.D., Associate Professor
Wayne E. Nelson, Ed.D., Associate Professor
Martha M. Seban, M.S., Assistant Professor
Patricia Childress, M.A., Instructor

The Department of Physical Education and Health offers the degree Bachelor of Arts, Physical Education. Courses are designed to provide a background in physical education for those planning to enter the teaching field, an educational foundation for those planning to undertake graduate work or a program for preprofessional work.

REQUIREMENTS FOR THE BACHELOR OF ARTS, PHYSICAL EDUCATION

Physical education majors are to:

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete the prerequisites to the major including required courses in related fields.
3. Complete the major of not less than 34 upper division units; of these no more than 8 units of Winter Term CR graded course work may apply toward the major.
4. Consult with the major adviser during each advising period concerning requirements, changes in curriculum, waivers, etc.
5. Completion of a minor is not required.

DEGREE MAJOR IN PHYSICAL EDUCATION

Prerequisites to the Major:

The following courses, which are among the choices applicable to the general education requirements, are required for physical education majors.

BIOL 1010. Principles of Biology (Lec. & Lab.), 4 units or
ZOOL 1050. Introduction to Zoology, 4 units
HITH 1000. Health in Today's Society, 1 unit
PHED 1000. Physical Education Activity, 1 unit

Required courses in related fields:

ZOOL 2230. Physiology (Lec.), 3 units
ZOOL 2240. Physiology (Lab.), 1 unit
ZOOL 2250. Human Anatomy (Lec. & Lab.), 3 units

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## Physical Education and Health

### The Major

Required courses in major field:

<table>
<thead>
<tr>
<th>Group One: All courses required</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED 3100. Foundations, History, &amp; Philosophy of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PHED 4100. Curriculum Organization &amp; Administration of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PHED 4200. Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>PHED 4300. Measurement &amp; Evaluation in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PHED 4400. Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PHED 4500. Physiology of Exercise</td>
<td>3</td>
</tr>
</tbody>
</table>

| Group Two: Eight units from the following—not more than two units chosen from PHED 2100-2130 | 8 |
| PHED 2100-2130. Sports Officiating, 1 unit each | |
| PHED 3400. Elementary Physical Education, 3 units | |
| PHED 3500. Community Recreation, 2 units | |
| PHED 3600. Intramural Programs, 2 units | |
| PHED 3700. Sport in Society, 3 units | |
| PHED 3800. Adapted Physical Education, 3 units | |
| HLTH 2200. School Health & Safety, 2 units | |
| HLTH 3000. Prevention & Care of Athletic Injuries, 2 units | |

| Group Three: Four units from the following | 4 |
| PHED 3200. Theory of Coaching Football, 2 units | |
| PHED 3210. Theory of Coaching Basketball, 2 units | |
| PHED 3220. Theory of Coaching Baseball, 2 units | |
| PHED 3230. Theory of Coaching Track & Field, 2 units | |
| PHED 3240. Theory of Coaching Volleyball, 2 units | |

| Group Four: Eight units from the following | 8 |
| PHED 3300. Theory & Analysis of Aquatic Sports, 2 units | |
| PHED 3310. Theory & Analysis of Combative Activities, 2 units | |
| PHED 3320. Theory & Analysis of Dance, 2 units | |
| PHED 3330. Theory & Analysis of Golf & Archery, 2 units | |
| PHED 3340. Theory & Analysis of Gymnastics, 2 units | |
| PHED 3350. Theory & Analysis of Racquet Sports, 2 units | |
| PHED 3360. Theory & Analysis of Team Sports, 2 units | |

Total | 38 |

### DEGREE MINOR IN PHYSICAL EDUCATION

Twenty units approved by the minor adviser, 16 of which must be upper division units.
Physical Education and Health

<table>
<thead>
<tr>
<th>Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 3000. Prevention &amp; Care of Athletic Injuries</td>
<td>2</td>
</tr>
<tr>
<td>Courses from Group One of Major Program</td>
<td>6</td>
</tr>
<tr>
<td>Courses from Group Two of Major Program</td>
<td>4</td>
</tr>
<tr>
<td>Courses from Group Three of Major Program</td>
<td>4</td>
</tr>
<tr>
<td>Courses from Group Four of Major Program</td>
<td>4</td>
</tr>
</tbody>
</table>

Total: 20

LIBERAL STUDIES CONCENTRATION IN PHYSICAL EDUCATION

Twenty units, including at least 15 upper division units.

Required courses:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED 3700. Sport in Society</td>
<td>3</td>
</tr>
<tr>
<td>PHED 4200. Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>Courses from Group One and Group Two of Major Program, minimum</td>
<td>2</td>
</tr>
<tr>
<td>Courses from Group Three of Major Program, minimum</td>
<td>2</td>
</tr>
<tr>
<td>Courses from Group Four of Major Program, minimum</td>
<td>6</td>
</tr>
<tr>
<td>Elective units from any of the four areas</td>
<td>4</td>
</tr>
</tbody>
</table>

Total: 20

ACTIVITY COURSES (1 unit each)

All activity courses meet 2 hours per week, have no prerequisites, may not be repeated for credit, and are graded on a CR/NC basis.

CREDIT BY EXAMINATION: Activity courses may be challenged by passing a proficiency test and written examination.

FITNESS & CONDITIONING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED 1010</td>
<td>Backpacking</td>
</tr>
<tr>
<td>PHED 1020</td>
<td>Yoga</td>
</tr>
<tr>
<td>PHED 1030</td>
<td>Cycling</td>
</tr>
<tr>
<td>PHED 1050</td>
<td>Jogging/Aerobics</td>
</tr>
<tr>
<td>PHED 1060</td>
<td>Ski Conditioning</td>
</tr>
<tr>
<td>PHED 1070</td>
<td>Judo</td>
</tr>
<tr>
<td>PHED 1080</td>
<td>Karate</td>
</tr>
<tr>
<td>PHED 1090</td>
<td>Intermediate Karate</td>
</tr>
<tr>
<td>PHED 1110</td>
<td>Personal Defense (W)</td>
</tr>
<tr>
<td>PHED 1120</td>
<td>Individualized Fitness</td>
</tr>
<tr>
<td>PHED 1130</td>
<td>Weight Training (M)</td>
</tr>
<tr>
<td>PHED 1140</td>
<td>Weight Training (W)</td>
</tr>
<tr>
<td>PHED 1160</td>
<td>Wrestling</td>
</tr>
</tbody>
</table>

INDIVIDUAL & DUAL SPORTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED 1200</td>
<td>Archery</td>
</tr>
<tr>
<td>PHED 1220</td>
<td>Advanced Archery</td>
</tr>
<tr>
<td>PHED 1230</td>
<td>Badminton</td>
</tr>
<tr>
<td>PHED 1250</td>
<td>Advanced Badminton</td>
</tr>
<tr>
<td>PHED 1260</td>
<td>Bowling</td>
</tr>
<tr>
<td>PHED 1280</td>
<td>Advanced Bowling</td>
</tr>
<tr>
<td>PHED 1290</td>
<td>Canoeing</td>
</tr>
<tr>
<td>PHED 1300</td>
<td>Fencing</td>
</tr>
<tr>
<td>PHED 1320</td>
<td>Advanced Fencing</td>
</tr>
<tr>
<td>PHED 1330</td>
<td>Golf</td>
</tr>
<tr>
<td>PHED 1350</td>
<td>Advanced Golf</td>
</tr>
<tr>
<td>PHED 1360</td>
<td>Gymnastics</td>
</tr>
<tr>
<td>PHED 1380</td>
<td>Advanced Gymnastics</td>
</tr>
<tr>
<td>PHED 1400</td>
<td>Handball</td>
</tr>
<tr>
<td>PHED 1420</td>
<td>Racquet Ball</td>
</tr>
<tr>
<td>PHED 1450</td>
<td>Skiing</td>
</tr>
<tr>
<td>PHED 1480</td>
<td>Tennis</td>
</tr>
<tr>
<td>PHED 1490</td>
<td>Intermediate Tennis</td>
</tr>
<tr>
<td>PHED 1500</td>
<td>Advanced Tennis</td>
</tr>
</tbody>
</table>

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Physical Education and Health

ACTIVITY COURSES - Continued

TEAM SPORTS

PHED 1700. Baseball
PHED 1720. Advanced Baseball
PHED 1740. Basketball (M)
PHED 1760. Adv. Basketball (M)
PHED 1770. Basketball (W)
PHED 1780. Field Hockey
PHED 1800. Adv. Field Hockey
PHED 1810. Team Handball
PHED 1840. Advanced Soccer
PHED 1850. Softball
PHED 1860. Track
PHED 1870. Intermediate Volleyball
PHED 1880. Advanced Volleyball

AQUATICS

PHED 1610. Swimming
PHED 1620. Intermediate Swimming
PHED 1630. Advanced Swimming
PHED 1640. Life Saving

DANCE

PHED 1900. Ballet
PHED 1920. Modern Dance
PHED 1930. Intermediate Modern Dance
PHED 1940. Advanced Modern Dance
PHED 1950. Social Dance
PHED 1960. Modern Jazz Dance
PHED 1970. Folk Dance

COURSE DESCRIPTIONS

Lower Division

PHED 2100-2130. Sports Officiating (1)

The study and interpretation of rules for various sports; procedures, mechanics, and practice in officiating. PHED 2100, Football; PHED 2110, Basketball; PHED 2120, Baseball; PHED 2130, Track and Field. (Formerly 200)

PHED 2500-2590. Intercollegiate Athletics (1)

Theory, practice, and game performance of competitive intercollegiate athletics. Limited to students trying out for the varsity or freshmen-junior varsity teams. May be repeated for credit. PHED 2500, Baseball; PHED 2510, Basketball (M); PHED 2520, Cross Country; PHED 2530, Golf; PHED 2540, Tennis (M); PHED 2550, Tennis (W); PHED 2560, Track and Field; PHED 2570, Volleyball; PHED 2580, Basketball (W); PHED 2590, Wrestling. Prerequisite: Consent of instructor.

PHED 2950. Selected Topics in Physical Education (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of physical education. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

PHED 2970. Selected Topics offered during Winter Term (4)
PHED 3100. Foundations, History, and Philosophy of Physical Education (3)

Historical factors and forces guiding the development of physical education; objectives of current physical education and its contribution to the full development of man; development of professional understanding and attitude. Philosophical thoughts guiding the development of physical education from ancient time to modern time.

PHED 3190. Curriculum and Instruction: Physical Education (3)

Preparation for teaching in physical education in secondary schools. Current trends and practices, instructional materials and techniques. Prerequisites: EDUC 3020 or equivalent, consent of credential adviser or teaching experience. (Same as EDUC 3190)

PHED 3200-3240. Theory of Coaching (2)

Principle and coaching techniques underlying participation in competitive interscholastic athletics. (Lecture, 1 hour; laboratory, 2 hours) PHED 3200, Football; PHED 3210, Basketball; PHED 3220, Baseball; PHED 3230, Track and Field; PHED 3240, Volleyball. Prerequisite: Limited to physical education majors and minors, or consent of instructor.

PHED 3300-3360. Theory and Analysis of Physical Education Activities (2)

Development of fundamental skills and special abilities applicable to specific areas. A study of competencies and knowledge needed for teaching and organization. Rules and field experience in game strategy, tactics, and evaluation techniques. (Two 2-hour laboratories) PHED 3300, Aquatic Sports; PHED 3310, Combative Activities; PHED 3320, Dance; PHED 3330, Golf/Archery; PHED 3340, Gymnastics; PHED 3350, Racquet Sports; PHED 3360, Team Sports. Prerequisite: Limited to physical education majors and minors or consent of instructor.

PHED 3400. Elementary School Physical Education (3)

The scope and values of physical education and movement education in the elementary school. Program development, methods, materials, and practice in teaching activities for primary, intermediate, and upper grades. (Lecture, 2 hours; laboratory, 3 hours)

PHED 3500. Community Recreation (2)

Study of leisure in a technological society, recreational programs and recreational organizations.
PHED 3510. Recreation Leadership Analysis (2)

Leadership techniques and presentations for games, arts and crafts, music, drama, rhythms, nature activities, special events, sports, and camp fires. Mechanics of program planning for special groups, and methods and materials used. Discussion of common and potential problems, and various alternative solutions.

PHED 3600. Intramural Programs (2)

The organization, administration, and motivation of intramural activities for schools including practical field experience.

PHED 3700. Sport in Society (3)

Introduction to the theoretical study of sport and its relationship to culture and society; investigation and analysis of literature that is concerned with the individual and his involvement in play, game, and sport.

PHED 3800. Adapted Physical Education (3)

The nature of specific handicaps which occur in students, the ways in which physical education activities are modified to meet the movement needs of handicapped students, and the laws of the State of California which have implications for the physical education program for handicapped students. (Formerly 490) ZOOL 2250 is recommended. (Lecture, 2 hours; laboratory, 3 hours)

PHED 4100. Curriculum, Organization, and Administration of Physical Education (3)

An introduction to secondary level physical education curriculum planning, development, and evaluation. Topics include curriculum definitions; content of well-rounded instructional, intramural, and interscholastic athletic programs; instructional time allotments, unit planning, and staff utilization. Special attention is devoted to The California Framework for Physical Education and various innovative techniques or methodologies utilized in today's secondary level physical education.

PHED 4200. Motor Learning (3)

The application of motor learning principles as they relate to methods of teaching movement to various age groups. Emphasis will also be placed on the development of motor patterns in the child from prenatal stages through adolescence. Prerequisite: Junior standing.

PHED 4300. Measurement and Evaluation in Physical Education (3)

A study of practical measurements for evaluation in physical education with emphasis on fitness and sports skills. (Formerly 480). Prerequisite: Junior standing.
PHED 4400. Kinesiology (3)

A study of anatomical structure and mechanical principles applied to human movement. Analysis of motor skills related to physical education activities. (Lecture, 2 hours; laboratory, 3 hours) (Formerly 484) Prerequisites: ZOOL 2250 and junior standing. PHYS 1500 is recommended.

PHED 4500. Physiology of Exercise (3)

Study of different body systems and the effects of exercise on each system and physical performance. (Lecture, 2 hours; laboratory, 3 hours) (Formerly 487) Prerequisites: ZOOL 2230, 2240, and junior standing. CHEM 1000 is recommended.

PHED 4900. Field Work or Practicum in Physical Education (1)

Field work is designed for students interested in gaining experience in a teaching or coaching situation off campus. Practicum is designed for students interested in gaining experience in a teaching or coaching situation on campus. May be repeated for a total of 6 units. Prerequisite: Consent of department chairman.

PHED 4950. Selected Topics in Physical Education (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of physical education. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

PHED 4970. Selected Topics offered during Winter Term (4)

PHED 4980. Individual Study (1-4)

For students capable of independent work in need of advanced or specialized study. May be repeated for 6 units. Prerequisite: Consent of department chairman.

HEALTH

HLTH 1000. Health in Today's Society (1)

Attention is focused on contemporary health problems and concerns. Typical topics covered are mental health, nutrition, family planning, and the physiological and sociological effects of alcohol, narcotics, and tobacco.

HLTH 2200. School Health and Safety (2)

Investigation and analysis of school health problems and services. The school environment as it relates to accidents and safety.

HLTH 3000. Prevention and Care of Athletic Injuries (2)

Principles and practices of conditioning athletes, with emphasis on the prevention and care of athletic injuries, bandaging, therapy, health habits, and protective equipment. (Formerly 310) Prerequisite: ZOOL 2250 and junior standing or consent of instructor.
Physics and Physical Sciences

Tai-Low Chow, Ph.D., Associate Professor, Chairman
Ervin H. Schwarcz, Ph.D., Professor
Vladimir S. Tuman, Ph.D., Professor
James M. Goodwin, Ph.D., Associate Professor

The Department of Physics and Physical Sciences offers the degrees of Bachelor of Arts and Bachelor of Science, Physics, and Bachelor of Arts, Physical Sciences. A student may pursue a physical sciences major by electing one of the following three concentrations: Applied Physics, Earth and Space Sciences, Environmental Sciences. A student may also pursue a physical sciences major without a concentration by completing sufficient upper division units.

The department also offers degree minors in the following areas: Earth Science, Physical Sciences, and Physics.

A concentration in Physical Sciences and in Physics for the Bachelor of Arts degree in Liberal Studies is also available.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE, PHYSICS

The curriculum in physics is designed to give the student a thorough understanding of the fundamentals and modern applications of physics. The Bachelor of Science program prepares the student for graduate school, a career in scientific research and development or industrial work. It is also intended for those students who wish to prepare for interdisciplinary studies on the graduate level in fields such as astronomy and astrophysics, atmospheric science, biophysics, engineering, environmental science, geophysics, or physical oceanography. The Bachelor of Arts degree program is designed for students seeking to enter professions requiring a moderate training in physics.

The lower division requirements of both degree programs can also be used to acquire preparation for study in engineering. After completing a one-year sequence in physics (PHYS 2250, 2260, 2350, and 2360), chemistry (CHEM 1100, 1110) and calculus (MATH 1410, 1420, and 2410), the student can transfer to engineering programs within the California State University and Colleges System or other schools for upper division course work and study in engineering.

REQUIREMENTS FOR THE BACHELOR OF ARTS OR BACHELOR OF SCIENCE, PHYSICS

Physics majors are to:

1. Complete the college requirements for the bachelor's degree.
2. Complete prerequisites to the major.
3. Complete a major of not less than 24 upper division units as specified for the Bachelor of Arts degree, or 33 upper
Physics and Physical Sciences

EARTH AND SPACE SCIENCES CONCENTRATION

Twelve units to be selected from the following:

- ASTR 3000. Contemporary Astronomy, 3 units
- ASTR 3200. Planetary and Space Science, 3 units
- ASTR 3500. Observational Astronomy, 3 units
- GEOL 3000. Physical & Environmental Geology, 3 units
- GEOL 4200, 4210. Earth Science I, II, 6 units
- GEOL 4300. Minerals and Crystals, 3 units
- MSCI 3430. Coastal Geomorphology, 3 units
- MSCI 3510. Marine Meteorology, 3 units
- Contemporary Astronomy, 3 units
- Planetary and Space Science, 3 units
- Observational Astronomy, 3 units
- Physical & Environmental Geology, 3 units
- Earth Science I, II, 6 units
- Minerals and Crystals, 3 units
- Coastal Geomorphology, 3 units
- Marine Meteorology, 3 units

Electives, 12 upper division units in physical sciences or mathematics, in consultation with the adviser. One elective course may be chosen from the following:

- GEOG 3100. Climatology, 3 units
- GEOG 3120. Geomorphology, 3 units
- GEOG 3700. Cartographic Presentation, 3 units
- GEOG 3710. Remote Sensing of the Environment, 2 units

APPLIED PHYSICS CONCENTRATION

Required courses:

- PHYS 3520. Modern Physics, 3 units
- PHYS 4100. Advanced Physics Lab, 2 units
- PHYS 4200. Electronics Instrumentation, 3 units
- PHYS 4930. Lasers and Holography, 4 units

Electives, 12 upper division units in physical sciences or mathematics, in consultation with the adviser.

DEGREE MINOR IN PHYSICAL SCIENCES

Consists of 18 units in physical sciences as approved by the minor adviser, to include at least 8 units in upper division.

DEGREE MINOR IN EARTH SCIENCES

Lower Division

7 units:

- GEOL 2100. Principles of Geology, 3 units
- GEOL 2110. Geology Lab, 1 unit
- PHSC 2100. Basic Meteorology, 3 units
  or GEOG 3100. Climatology, 3 units

Upper Division

12 units:

Required:

- GEOL 4200, 4210. Earth Sciences I, II, 6 units
Electives, 6 units, selected from the following:

- GEOL 3000. Physical & Environmental Geology, 3 units
- GEOL 4500. Field Geology, 4 units
- GEOG 3120. Geomorphology, 3 units
- GEOG 3700. Cartographic Presentation, 3 units
- GEOG 3710. Remote Sensing of the Environment, 2 units

LIBERAL STUDIES CONCENTRATION IN PHYSICAL SCIENCES

Twenty units, including at least 15 upper division units.

**Lower Division**

- PHYS 2260. General Physics II, 4 units,
- and PHYS 2360. General Physics II Lab, 1 unit
- or PHYS 1110. Basic Physics II, 5 units
  with consent of adviser

Note: (a) PHYS 2250. General Physics I, 4 units,
  and PHYS 2350. General Physics I Lab, 1 unit
  or PHYS 1100. Basic Physics I, 5 units,
  with consent of adviser,
  must be taken to substitute for PHYS 1500,
  Energy and Matter, 3 units, required under
  Liberal Studies Area B.

(b) MATH 1410. Calculus I, 4 units,
  and MATH 1420. Calculus II, 4 units,
  must be taken to substitute for MATH 1050 and
  MATH 1040, Elementary Foundations of Mathematics I
  and II, 6 units, required under Liberal Studies
  Area B, unless the PHYS 1110 option is approved by
  the physics adviser.

**Upper Division**

At least 15 units chosen from upper division courses in
physical science, astronomy, geology, or physics, with consent of
the physical science adviser, to include at least 5 of the following
courses:

- PHSC 3000. Physical Science of the Environment, 3 units
- ASTR 3000. Contemporary Astronomy, 3 units
- GEOL 3000. Physical & Environmental Geology, 3 units
- PHYS 3520. Modern Physics, 3 units
PHYS 1100. Basic Physics I (5)

General physics without using the calculus. Newtonian mechanics, wave motion, heat and thermodynamics. Designed for general students and for students preparing for biology or medicine. (Lecture, 3 hours; discussion, 1 hour; laboratory, 3 hours) Prerequisites: Algebra and trigonometry, or consent of instructor.

PHYS 1110. Basic Physics II (5)

Continuation of PHYS 1100. Electricity and magnetism, light, optics, atoms, and nucleus. Prerequisite: PHYS 1100.

PHYS 1500. Energy and Matter (3)

A descriptive survey of the basic concepts and principles of physics. Topics will range from classical Newtonian mechanics to modern theories of the atom and the nucleus. (Lecture, 2 hours; laboratory, 3 hours) No prerequisites.

PHYS 1510. Introductory Physics Lab (1)

Designed for students who had a lecture course in physics equivalent to PHYS 1500, Energy and Matter. Registration for this lab requires approval of the Physical Sciences Department. Prerequisite: PHYS 1500 or equivalent.

PHYS 2250. General Physics I (4)

General physics using the calculus, for science students. Mechanics, wave motion, heat and thermodynamics. (Lecture, 3 hours; discussion, 1 hour) Prerequisite: Concurrent enrollment in MATH 1410, or consent of instructor.

PHYS 2260. General Physics II (4)

Continuation of PHYS 2250. Electricity, magnetism, light, optics. Prerequisite: PHYS 2250.

PHYS 2350. General Physics Laboratory I (1)

Laboratory to accompany PHYS 2250. Prerequisite: PHYS 2250 or concurrent enrollment in PHYS 2250.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2360</td>
<td>General Physics Laboratory II (1)</td>
<td></td>
<td>Laboratory to accompany PHYS 2260. Prerequisite: PHYS 2260 or concurrent enrollment in PHYS 2260.</td>
</tr>
<tr>
<td>PHYS 2950</td>
<td>Selected Topics in Physics (Topics to be specified in Class Schedule) (1-5)</td>
<td></td>
<td>Development of a selected branch of physics. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.</td>
</tr>
<tr>
<td>PHYS 2970</td>
<td>Selected Topics offered during Winter Term (4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 3010</td>
<td>Introduction to Theoretical Physics I (3)</td>
<td></td>
<td>Matrix algebra and tensors. Formulations of the partial differential equations of modern physics and an introduction to the mathematical methods required for their solutions. Special functions, topics in theory of complex variables. Examples are given from all fields of physics. Prerequisite: PHYS 2260.</td>
</tr>
<tr>
<td>PHYS 3020</td>
<td>Introduction to Theoretical Physics II (3)</td>
<td></td>
<td>Continuation of PHYS 3010. Prerequisite: PHYS 3010.</td>
</tr>
<tr>
<td>PHYS 3140</td>
<td>Analytical Mechanics I (3)</td>
<td></td>
<td>Dynamics of particles and rigid bodies, gravitation, Lagrangian and Hamiltonian dynamics, theory of oscillations, and the wave equation. Prerequisite: PHYS 2260.</td>
</tr>
<tr>
<td>PHYS 3150</td>
<td>Analytical Mechanics II (2)</td>
<td></td>
<td>Continuation of PHYS 3140. Prerequisite: PHYS 3140.</td>
</tr>
<tr>
<td>PHYS 3320</td>
<td>Electricity and Magnetism I (2)</td>
<td></td>
<td>Electrostatics, magnetostatics, electric current, electromagnetic induction, Maxwell's equations, electromagnetic waves, radiative reaction, electric and magnetic properties of materials, properties of wave guides. Prerequisite: PHYS 2260.</td>
</tr>
<tr>
<td>PHYS 3330</td>
<td>Electricity and Magnetism II (3)</td>
<td></td>
<td>Continuation of PHYS 3320. Prerequisite: PHYS 3320.</td>
</tr>
<tr>
<td>PHYS 3370</td>
<td>Relativity and Cosmology (3)</td>
<td></td>
<td>Introduction to the physical basis and mathematical formulation of general relativity, experimental tests of general relativity,</td>
</tr>
</tbody>
</table>
Physics and Physical Sciences

gravitational waves, gravitational collapse, cosmological implications of recent developments in general relativity. Prerequisite: PHYS 3150 or consent of instructor.

PHYS 3520. Modern Physics (3)

Origin of quantum theory, atomic structure, X-rays, and the elements of nuclear physics and particle physics. Prerequisite: PHYS 2260.

PHYS 3530. Quantum Mechanics I (3)

Development of Schrodinger's equation and its interpretations. Mathematical techniques for solution of problems in one and three dimensions. Perturbation and scattering theory. Solution of the hydrogen atom problem. Application to atomic phenomena. Prerequisite: PHYS 3520 or consent of instructor.

PHYS 3540. Quantum Mechanics II (3)

Continuation of PHYS 3530. Prerequisite: PHYS 3530.

PHYS 4100. Advanced Physics Laboratory (1)

Project type experiments in mechanics, heat, electricity, and magnetism, optics, atomic physics, nuclear physics, etc. (Laboratory, 3 hours) Prerequisite: Upper division standing or consent of instructor. This course may be repeated for a maximum of 6 units.

PHYS 4200. Electronics Instrumentation (3)

Introduction to basic electronics and fundamental electronic measuring instruments. The student will study the experimental setup in an actual system used in his field of interest, chosen from the current literature. (Lecture, 2 hours; laboratory, 3 hours). Prerequisite: Upper division standing or consent of instructor.

PHYS 4450. Nuclear Physics (3)

Elements of nuclear structure, radioactivity, interaction of nuclear radiations with matter, detection of nuclear radiation, fission and fusion, nuclear models. Prerequisite: PHYS 3520 or consent of instructor.

PHYS 4530. Thermal and Statistical Physics I (3)

Thermodynamics and statistical mechanics. A unified approach following Gibbs, based on a microscopic description using quantum states. Fermi, Bose, and "Classical" systems are discussed, with applications to standard and current topics. Prerequisite: PHYS 2260.
PHYS 4540. Thermal and Statistical Physics II (2)

Continuation of PHYS 4530. Prerequisite: PHYS 4530 or consent of instructor.

PHYS 4560. Solid State Physics (3)


PHYS 4900. Modern Optics (3)

Principles of geometrical optics; reflection, refraction, polarization, coherence and interference, Kirchhoff's diffraction theory, Fourier methods in optics, optics of solids, lasers and holography. Prerequisite: PHYS 2260.

PHYS 4930. Lasers and Holography (4)

Interference and coherent light, holographic recording and image reconstruction, properties of holograms and a geometric interpretation, semiclassical radiation fields, coherence theory, induced and spontaneous emission, theories and properties of lasers. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: PHYS 2260.

PHYS 4950. Selected Topics in Physics (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of physics. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

PHYS 4970. Selected Topics offered during Winter Term (4)

PHYS 4980. Individual Study (1-4)

For students capable of independent work in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

PHYS 5980. Individual Study (1-4)

For qualified students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.
PHYSICAL SCIENCES

Lower Division

PHSC 1300. Environmental Pollution (2)

Survey of the pollution of the air, water, and land environment. The physical and chemical aspects of pollution by chemicals, pesticides, wastes, radioactivity, heat, and noise. (Lecture, 2 hours). No requisites.

PHSC 2100. Basic Meteorology (3)

Survey of general meteorology; basic principles concerning behavior of the atmosphere and the physical processes underlying weather phenomena. Topics include: atmospheric structure and circulation, thermodynamic properties of the atmosphere; air mass and fronts; weather map analysis and forecasting. Topics such as contaminants in the atmosphere and their effects on atmospheric energy balance and condensation may be included. (Lecture, 3 hours) Prerequisite: High school mathematics.

PHSC 2950. Selected Topics in Physical Sciences (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of physical sciences. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

PHSC 2970. Selected Topics offered during Winter Term (4)

Upper Division

PHSC 3000. Physical Science of the Environment (3)

Fundamental physical science aspects of environmental science. Topics include air pollution and associated atmospheric science, water pollution, nuclear energy and radioactive pollution, thermal pollution, and other environmental subjects. Prerequisite: Upper division standing or consent of instructor.

PHSC 4950. Selected Topics in Physical Sciences (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of physical science. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

PHSC 4960. Physical Sciences Seminar (1)

Presentation and discussion of selected topics in physical sciences from current literature. May be repeated for credit. Prerequisite: Consent of instructor.

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PHSC 4970. Selected Topics offered during Winter Term (4)

PHSC 4980. Individual Study (1-4)

For students capable of independent work in need of advanced and specialized study. The Physical Sciences Department encourages students to submit proposals in areas of their interest. The proposal should outline their projects and exhibit concrete plans for their successful completion. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

PHSC 5980. Individual Study (1-4)

For qualified students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

ASTRONOMY

Lower Division

ASTR 2100. Descriptive Astronomy (3)

Development of astronomical thought from Ptolemy to Einstein; the earth and the moon, atoms, light and the tools of astronomers, planets, comets, and meteors, the sun, stars, stellar evolution, galaxies and cosmology, new findings of space programs, extraterrestrial life. (Lecture, 3 hours) No prerequisites.

ASTR 2110. Astronomy Laboratory (1)

Telescope observations of the moon, planets, their satellites, and sunspots. Laboratory experiments related to astronomy. Prerequisite: ASTR 2100 or concurrent enrollment in ASTR 2100. (Laboratory, 3 hours)

ASTR 2970. Selected Topics offered during Winter Term (4)

Upper Division

ASTR 3000. Contemporary Astronomy (3)

A survey of recent developments in astronomy: gamma ray, X-ray, ultraviolet, infrared, and gravitational astronomy; interstellar molecules, radio galaxies, quasars, pulsars and black holes; new trends in cosmological thinking, new findings of space programs. Prerequisite: ASTR 2100.

ASTR 3200. Planetary and Space Science (3)

Study of the structure of the planets, their atmospheres, interplanetary plasma, theories of origin of the planets and of
Physics and Physical Sciences

planetary atmospheres, new developments of space programs. Additional topics of current interest may be added. Prerequisite: ASTR 2100.

ASTR 3500. Observational Astronomy (3)

Simple techniques and instruments of optical observations of astronomical objects; astrophotography, photometry, and reduction of photographic and photometric data; laboratory projects. (Lecture, 1 hour; laboratory, 6 hours) Prerequisite: ASTR 2100.

ASTR 4970. Selected Topics offered during Winter Term (4)

GEOLOGY

Lower Division

GEOL 2100. Principles of Geology (3)

Survey of the structural and material of the outer portion of the earth and the geological processes responsible for sculpturing the earth of today. (Lecture, 3 hours) No prerequisite.

GEOL 2110. Geology Laboratory (1)

Laboratory to accompany GEOL 2100; one or more field trips. (Laboratory, 3 hours) Prerequisite: GEOL 2100 or concurrent enrollment in GEOL 2100.

GEOL 2970. Selected Topics offered during Winter Term (4)

Upper Division

GEOL 3000. Physical and Environmental Geology (3)

Structural geology, global tectonics, and other topics of physical geology. Interaction of man with his geological environment, hazards from earthquakes and landslides, disposal of wastes in land and waters, conservation of minerals and resources, geology and regional planning. Prerequisite: GEOL 2100.

GEOL 4200. Earth Science I (3)

Study of physical properties of rocks, earth's internal structure, seismic techniques of earthquakes, gravity and magnetic properties of the earth. Prerequisites: GEOL 2100 and 2110, or consent of instructor.
Physics and Physical Sciences

GEOL 4210. Earth Science II (3)

Continuation of GEOL 4200. Prerequisite: GEOL 4200.

GEOL 4300. Minerals and Crystals (2)

Study and classification of crystals, physical properties of crystals with their chemical composition, properties of light and optical properties of minerals under polarized light. Prerequisite: GEOL 2100 or consent of instructor.

GEOL 4500. Field Geology (4)

Study of geological maps and preparation of local maps for use in field study; locate and study specific geologic structure. (Lecture, 2 hours; laboratory, 6 hours) Prerequisite: GEOL 2100-2110, or consent of instructor.

GEOL 4970. Selected Topics offered during Winter Term (4)
Political Science

Paul F. Magnelia, Ph.D., Professor, Chairman
Kenneth Entin, Ph.D., Associate Professor
Steven Hughes, Ph.D., Associate Professor
Richard Mendes, Ph.D., Associate Professor
Gary C. Shaw, Ph.D., Associate Professor
John T. Wold, Ph.D., Associate Professor
Lawrence L. Giventer, M.A., Assistant Professor

The Department of Political Science offers the degree Bachelor of Arts, Political Science. The primary objective of the major in political science is to provide a core for a liberal arts education that will prepare the student to assume and execute his responsibilities intelligently as a citizen in a consciously self-governing community. The major program also provides appropriate preprofessional training for the student who intends to enter graduate school, study for a teaching credential, or pursue one of the careers listed below.

Careers in Law:

While all prelaw students should have a strong background in the liberal arts, many can benefit in particular from courses offered by the Department of Political Science. Especially recommended are courses dealing with the judiciary and other aspects of American politics. The department also participates in the Administration of Justice program. Prelaw students interested in advising should contact the department.

Careers in Government:

The Department of Political Science offers courses in the field of public administration specifically designed for those who wish to pursue a career in government. A Public Service Intern Project, an integral aspect of the program, enables students to gain practical experience in local, county, and state governments.

Careers in Foreign Affairs:

The Department of Political Science offers a number of courses which help prepare students interested in entering foreign service on the various international organization. These courses are combined with courses in related disciplines.
REQUIREMENTS FOR THE BACHELOR OF ARTS, POLITICAL SCIENCE

Political Science majors are to:

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 25 upper division units. Eight units of Winter Term CR graded course work may apply toward the major.
4. Completion of a minor is not required.

DEGREE MAJOR IN POLITICAL SCIENCE

Prerequisites to the Major

Required courses in the major field

PSCI 1200. American Government, 3 units
PSCI 2000. Introduction to Political Science, 3 units (recommended)
   or PSCI 2020. Politics and Society, 3 units

Required courses in supporting fields: Two of the following:

ANTH 2060. Introduction to Cultural Anthropology, 3 units
ECON 2500. Principles of Economics I, 4 units
GEOG 2400 or 2410. World Regional Geography I or II, 3 units
SOCL 1010. Introduction to Sociology, 3 units

Strongly recommended:

MATH 1600. Statistics, 4 units

The Major

PSCI 3000. Ancient & Medieval Political Thought
   or PSCI 3010. Modern Political Thought ....... 3
PSCI 3100. Scope & Methods of Political Science .... 4

One 3000-level course from each of the following fields:
American Politics, Comparative Politics, International Relations .......... .... 9
Courses in Political Science as approved by major adviser .......... .... 9

Total ....... .... 25
## Political Science

**PUBLIC ADMINISTRATION CONCENTRATION**
within the B.A. Degree

### Lower Division

Complete prerequisites to the major described on the preceding page.

### Upper Division

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 3100. Scope &amp; Methods of Political Science</td>
<td>4</td>
</tr>
<tr>
<td>One course in Political Theory &amp; Methodology</td>
<td>3-4</td>
</tr>
<tr>
<td>One 3000-level course in Comparative Politics</td>
<td>3-4</td>
</tr>
<tr>
<td>One 3000-level course in International Relations</td>
<td>3-4</td>
</tr>
</tbody>
</table>

2. **PSCI 3300. Introduction to Public Administration** | 3 units

3. One of the following courses | 3-4
   - PSCI 3330. California Politics
   - PSCI 4330. Urban Politics
   - PSCI 4420. Comparative Bureaucracies

4. One of the following courses | 3-4
   - PSCI 3210. Legislative Process
   - PSCI 3220. Constitutional Law
   - PSCI 3250. Political Parties & Interest Groups
   - PSCI 3250. Public Opinion & Voting Behavior
   - PSCI 4250. The Chief Executive

5. One of the following courses | 3 units
   - ECON 3150. National Income Analysis
   - ECON 4540. Public Finance & Fiscal Policy
   - ECON 4550. Taxation & the American Economy

6. One course selected from either A or B | 3-4
   - A. GEOG 4350. Urban Geography
   - HIST 3640. Contemporary America
   - SOCL 4810. Urban Sociology
   - ECON 4600. Urban Economics
   - B. BUS 2130. Managerial Accounting

7. Upper division units in political science to total the 25 units required for the B.A. degree.
DEGREE MINOR IN POLITICAL SCIENCE

Sixteen units approved by the minor adviser are required, including at least 10 units in upper division courses.

MASTER OF PUBLIC ADMINISTRATION

The Department of Political Science and the Department of Economics jointly offer graduate study leading to the degree of Master of Public Administration. The program of study is designed for those who are preparing for careers in public service, for those already in public service who seek professional development in their careers, and those who are preparing for teaching and research in the field. For further information, see section on Public Administration.

LIBERAL STUDIES CONCENTRATION IN POLITICAL SCIENCE

Twenty units, including at least 15 upper division units.

Lower Division

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 2020</td>
<td>3</td>
</tr>
<tr>
<td>or PSCI 2600</td>
<td></td>
</tr>
</tbody>
</table>

Upper Division

At least two courses selected from the following: 6-8

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 3400. Comparative Politics: Europe</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3410. Comparative Politics: Latin America</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 3420. Comparative Politics: East Asia</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 3450. Comparative Politics: USSR &amp; Eastern Europe</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3460. Politics of Developing Areas</td>
<td>4</td>
</tr>
</tbody>
</table>

At least two courses selected from the following: 6-8

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 3210. Legislative Process</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3230. Political Parties &amp; Interest Groups</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 3250. Public Opinion &amp; Voting Behavior</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 4230. The Chief Executive</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4330. Urban Politics</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives ................................. 1-5

Total .................................... 20

TEACHING CREDENTIALS

Majors in political science interested in multiple subject or single subject credentials are referred to the Education section of the catalog for a description of teaching credential programs.
**Political Science**

**POLITICAL SCIENCE SUB-AREAS**

**POLITICAL THEORY AND METHODOLOGY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 3000</td>
<td>Ancient &amp; Medieval Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3010</td>
<td>Modern Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3030</td>
<td>American Political Thought</td>
<td>2</td>
</tr>
<tr>
<td>PSCI 3050</td>
<td>Marxist Political Thought</td>
<td>2</td>
</tr>
<tr>
<td>PSCI 3060</td>
<td>Contemporary Political Thought</td>
<td>2</td>
</tr>
<tr>
<td>PSCI 3100</td>
<td>Scope &amp; Methods of Political Science</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 3110</td>
<td>Research Design Seminar in Political Science</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4020</td>
<td>Selected Topics in Political Theory</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**AMERICAN POLITICS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 3210</td>
<td>Legislative Process</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3220</td>
<td>Constitutional Law</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 3230</td>
<td>Political Parties &amp; Interest Groups</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 3250</td>
<td>Public Opinion &amp; Voting Behavior</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 3260</td>
<td>Urban Justice</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3300</td>
<td>Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3330</td>
<td>California Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4200</td>
<td>Problems in Civil Liberties</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4210</td>
<td>The Judicial Process</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4220</td>
<td>Simulation-Supreme Court Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4230</td>
<td>The Chief Executive</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4240</td>
<td>Executive Legislative Relations</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4300</td>
<td>Organization Theory</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 4315</td>
<td>Public Policy Making</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4320</td>
<td>Minority Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4330</td>
<td>Urban Politics</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 4340</td>
<td>Public Administration Internship</td>
<td>3</td>
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</tbody>
</table>

**COMPARATIVE POLITICS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 3400</td>
<td>Comparative Politics: Europe</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3410</td>
<td>Comparative Politics: Latin America</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 3420</td>
<td>Comparative Politics: East Asia</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 3450</td>
<td>Comparative Politics: USSR &amp; Eastern Europe</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 3460</td>
<td>Politics of the Developing Areas</td>
<td>4</td>
</tr>
<tr>
<td>PSCI 4420</td>
<td>Comparative Bureaucracies</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4440</td>
<td>Elites &amp; Public Policy in Latin America</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4900</td>
<td>Seminar in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 4950</td>
<td>Selected Topics in Political Science</td>
<td>1-5</td>
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<tr>
<td>PSCI 4960</td>
<td>Senior Seminar</td>
<td>3</td>
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<tr>
<td>PSCI 4980</td>
<td>Individual Study</td>
<td>1-4</td>
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</tbody>
</table>
INTERNATIONAL RELATIONS

PSCI 3600. International Relations, 4 units
PSCI 3620. Soviet Foreign Policy, 3 units
PSCI 4610. National Security Administration & Policy Making, 3 units
PSCI 4620. International Dimensions of National Security, 3 units
PSCI 4630. Inter-American Affairs, 3 units

INTERDISCIPLINARY

PSCI 4700. The Political Novel, 4 units

GRADUATE

PSCI 5801. Administration in Public Affairs, 3 units
PSCI 5820. Seminar in Problems of Public Administration, 3 units
PSCI 5830. Administrative Law & Public Policy, 3 units
PSCI 5840. Modeling & Simulation for Policy Analysis, 3 units
PSCI 5860. Public Policy Analysis, 3 units
PSCI 5870. Logic & Method in Administrative and Policy Research, 3 units

COURSE DESCRIPTIONS

Lower Division

PSCI 1200. American Government (3)

Critical analysis of American political structures and processes. Meets U.S. Constitution and California state and local government requirements for General Education. (Formerly 202)

PSCI 2000. Introduction to Political Science (3)

To examine the foundations of political science and political behavior in the West. Emphasis is placed on broadening the understanding of political science as a discipline. Recommended for majors. (Formerly 220)

PSCI 2020. Politics and Society (3)

Politics and Society will examine the translation of social concerns into political conflicts. The development of mass ideologies and mass political movements, both historical and contemporary, will be considered. (Formerly 2210)

PSCI 2600. Issues in International Politics (3)

Study of contemporary issues in international relations. Such topical items as East-West relations, emerging role of small
Political Science

nations, and population and technological factors affecting the international system are included in the course.

PSCI 2900. Library Resources and Bibliographical Control for Research in Political Sciences (2)

Survey of abstracts, bibliographies, biographical directories, book review indexes, dictionaries, documents, encyclopedias, and indexes for historical research; and the application of footnote and bibliographical methods for political science majors. Prerequisite: None. (Same as HIST 2900)

PSCI 2950. Selected Topics in Political Science (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of political science. Topics may vary each term. Different courses may be taken for credit. Prerequisite: Consent of instructor.

PSCI 2970. Selected Topics offered during Winter Term (4)

Upper Division

PSCI 3000. Ancient & Medieval Political Thought (3)

Historical development of political philosophy from ancient times to seventeenth century. Prerequisite: PSCI 1200.

PSCI 3010. Modern Political Thought (3)

Political thought from seventeenth century to present, with emphasis on such European philosophers as Hobbes, Locke, Rousseau, and Marx. (Formerly 300) Prerequisite: PSCI 1200.

PSCI 3030. American Political Thought (2)

Main trends of American political thinking from colonial times to the present. (Formerly 400) PSCI 3000 recommended.

PSCI 3050. Marxist Political Thought (2)

Examination of the foundations and philosophical assumptions of Marxist theory. PSCI 3000 recommended.

PSCI 3060. Contemporary Political Thought (2)

Readings in political philosophy focusing on the technological society. Included in the readings will be Marxist revisionism, existentialism, behavioralism, and selected utopian reactions to technology. PSCI 3000 recommended.

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PSCI 3100. Scope and Methods of Political Science (4)

This course is designed to introduce students to the basic assumptions and techniques of empirical political science. Topics to be discussed include the philosophy of the scientific method, the structure of theory and models, the measurement of political science data processing equipment to handle large amounts of information. Prerequisite: PSCI 1200. MATH 1600 recommended.

PSCI 3110. Research Design Seminar in Political Science (3)

This course will focus upon the construction and implementation of political science experiments and surveys. It will include a discussion of the sources of bias and error in political science research. Prerequisite: PSCI 3100.

PSCI 3210. Legislative Process (3)

Analysis of the procedures and politics of legislatures with emphasis on the American Congress; executive-legislative relations, and proposals for congressional reform are also examined. (Formerly 354) Prerequisite: PSCI 1200.

PSCI 3220. Constitutional Law (4)

A study of the nature and scope of judicial review in American politics, focusing specifically on the development of lines of precedence in the areas of commerce, due process (substantive and procedural), equal protection, and First Amendment freedoms. Prerequisite: PSCI 1200.

PSCI 3230. Political Parties and Interest Groups (4)

Study of the organization and activities of political parties and interest groups in the American political system. Emphasis is placed on the varieties and techniques of interest groups, the role of parties in elections and party reform. (Formerly 351) Prerequisite: PSCI 1200.

PSCI 3250. Public Opinion and Voting Behavior (4)

American voting behavior, psychological dimensions of citizen decision-making in a democracy, political attitudes and beliefs and campaign tactics. Field work. (Formerly 362) Prerequisite: PSCI 1200.

PSCI 3260. Urban Justice (3)

Overcrowded courts, discrimination, infringements on personal privacy, and the political influence of organized crime are problem areas of contemporary urban life. This course deals with these and related topics. Prerequisite: PSCI 1200.
POLITICAL SCIENCE

PSCI 3300. Introduction to Public Administration (3)

This course is an introduction to the study of principles and problems in administrative procedure in public organizations. Specific areas of examination include the relationship between bureaucratic and democratic theory, organization theory, personnel administration, fiscal and budgetary policy, and regulatory administration. (Formerly 370) Prerequisite: PSCI 1200.

PSCI 3330. California Politics (3)

A study of politics and decision-making in California. Emphasis is placed on the ways public officials and private groups interact in the political area. Prerequisite: PSCI 1200.

PSCI 3400. Comparative Politics: Europe (3)

This course is designed to acquaint the student with the comparative approach to the study of European politics by emphasizing the similarities and differences of social and cultural variables as they impinge upon the institutions of government. (Formerly 311) Prerequisite: PSCI 1200.

PSCI 3410. Comparative Politics: Latin America (4)

A general survey of the politics of Latin America. Course includes historical factors affecting nature of contemporary politics; the nature of contemporary political developments; the role of such forces as military, the church, and the United States, and the nature of revolution in Latin America. Prerequisite: PSCI 1200.

PSCI 3420. Comparative Politics: East Asia (4)

An examination of the dynamics of the major governments of East Asia, especially China and Japan. (Formerly 343, 344) Prerequisite: PSCI 1200.

PSCI 3450. Comparative Politics: USSR and Eastern Europe (3)

An analysis of government, politics, and political development in communist political systems. Primary focus in the course will be on the USSR. (Formerly 317) Prerequisite: PSCI 1200.

PSCI 3460. Politics of the Developing Areas (4)

Analysis of the process of political change in the areas of Asia, Africa, Latin America, and the Middle East. Course will focus on such issues as nation-building, political dependence, and revolution. Prerequisite: PSCI 1200.
PSCI 3600. International Relations (4)

Introduction to the elements of international relations. Work in lab simulation will be an integral part of the course. Prerequisite: PSCI 1200.

PSCI 3620. Soviet Foreign Policy (3)

Analytical and historical examination of Soviet policy. Emphasis on the role of communist ideology, Russian tradition, and politics of the Soviet Union. (Formerly 434) Prerequisite: PSCI 1200.

PSCI 4020. Selected Topics in Political Theory (1-3)

Analysis and discussion of selected issues and/or systems in political theory. May be repeated up to 6 units. (Formerly 401) PSCI 3000 recommended.

PSCI 4200. Problems in Civil Liberties (3)

An examination of selected issues in American civil liberties, emphasizing such areas as speech, religion, criminal procedures, public school desegregation, voting, and personal security. Designed especially for pre-law and advanced students. Prerequisite: PSCI 1200. PSCI 3220 recommended.

PSCI 4210. The Judicial Process (3)

A study of judicial decision-making and of the organization of the American judiciary. Emphasis is placed on the federal courts. (Formerly 457) Prerequisite: PSCI 1200. PSCI 3220 strongly recommended.

PSCI 4220. Simulation-Supreme Court Decision-Making (3)

A study of decision-making in the United States Supreme Court through the use of discussions and simulations of the decisional process. Prerequisite: PSCI 1200.

PSCI 4230. The Chief Executive (3)

A study of the chief executive in American national government. The roles, responsibilities, powers and limits of the President and other decision-makers in the Executive Branch are analyzed; and the centrality of the executive in the American political system is emphasized. (Formerly 320) Prerequisite: PSCI 1200.

PSCI 4240. Executive Legislative Relations (3)

Examination of important concepts and issues affecting the relationship between the executive and legislative branches. The
course will focus on the impact of a variety of factors including executive privilege, impoundment, congressional investigations, impeachment, the Vietnam War and Watergate.

PSCI 4300. Organization Theory (4)

The study of public administration is concerned with current literature on organizational behavior. The public bureaucracy is the largest of all complex organizations. This course is designed to acquaint the student with current research in this area. Research projects required. Prerequisite: PSCI 1200. PSCI 3300 recommended.

PSCI 4315. Public Policy Making (3)

This course will address two areas of the policy making process: a) the role of social/political institutions—with particular attention to administrative agencies, interest groups and the judiciary in addition to the presidency and Congress, b) principal models of policy formation including elitism, systems theory, and incrementalism. Policy making in a number of specific domestic problem areas will be studied. (Formerly 4310) Prerequisite: PSCI 1200. PSCI 3300 recommended.

PSCI 4320. Minority Politics (3)

Study of strategies and styles of minority groups in the American political system with emphasis on White ethnic groups, Blacks, Mexican-Americans, Japanese, and Indians. Critical analysis of recent innovative attempts to deal with minority problems. (Formerly 494) Prerequisite: PSCI 1200. PSCI 3310 recommended.

PSCI 4330. Urban Politics (4)

Study of politics, organization, and problems at the urban level with emphasis on the responses of state and federal governments to the needs and demands of cities. Field work. (Formerly 331) Prerequisite: PSCI 1200.

PSCI 4340. Public Administration Internship (3)

The Public Administration Intern program is designed to provide experience working with local, county, and state governments. Readings and papers will be assigned on the basis of individual projects. Prerequisites: PSCI 1200, 3300.

PSCI 4420. Comparative Bureaucracies (3)

This course treats the administrative systems of the major western nations in terms of rules, administrative roles, recruitment patterns, supervision, and controls. Prerequisite: PSCI 1200. PSCI 3300 recommended.
PSCI 4440. Elites and Public Policy in Latin America (3)

An analysis of the political behavior of Latin American elites and their impact on public policy. Emphasis is placed on the relationship between elite recruitment and public policy in Chile, Cuba, and Mexico. Prerequisite: PSCI 1200.

PSCI 4610. National Security Administration & Policy Making (3)

Study of national security decision-making with emphasis on the roles played by civilian executive officials, the military, Congress, and industry. Survey and critical analysis of American defense policy. Prerequisite: PSCI 1200. PSCI 3600 recommended.

PSCI 4620. International Dimensions of National Security Policy (3)

Study of contemporary international tensions and conflicts in their political, economic, and military aspects; the role of alliances and other security systems; disarmament and arms control; strategic doctrines and national defense policies. Prerequisite: PSCI 1200. PSCI 3600 recommended.

PSCI 4630. Inter-American Affairs (3)

A study of political relations among the countries of the western hemisphere with particular emphasis on U.S.-Latin American relations. Prerequisite: PSCI 1200.

PSCI 4700. The Political Novel (4)

An examination of the ways in which political activity and belief give shape to certain novels, particularly in America.

PSCI 4900. Seminar in Criminal Justice (3)

A seminar in the development of and current trends in the administration of criminal justice. Emphasis will be placed upon relevant constitutional, statutory, and procedural problems. Specific focus will be on the functions of the police and the judiciary. Prerequisites: PSCI 1200 and consent of instructor.

PSCI 4950. Selected Topics in Political Science (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of political science. Topics vary each term. Different topics may be taken for credit.

PSCI 4960. Senior Seminar (3)

Topic to be selected from one of the four major areas: Political Theory, Comparative Systems, International Relations, American Politics. May be repeated for a maximum of 6 units. Prerequisite: Consent of instructor.
Political Science

PSCI 4970. Selected Topics offered during Winter Term (4)

PSCI 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

Graduate

PSCI 5000. International Relations Seminar (2)

Research on an international relations topic, using political science and history methodology. (Topics to be specified in the class schedule.) To be taken concurrently with HIST 5000 International Relations Seminar. This course is primarily for the International Relations/History M.A. concentration, but is open to all qualified students.

PSCI 5801. Administration in Public Affairs (3)

Overview of public administration as distinct study, the object and scope of study. Methodological and theoretical problems, problem-situation substantive problems of the field. (Formerly 5800 and 5810)

PSCI 5820. Seminar in Problems of Public Administration (3)

Analysis of selected topics in public administration. Topics may vary each semester. Such topics may include, e.g., Professions, Public Policy and Politics, Urban Area Administration and Policy, Social Science Implications in Public Policy. Different topics may be taken for credit.

PSCI 5830. Administrative Law and Public Policy (3)

Basic principles of constitutional and administrative law, leading cases, judicial decisions affecting powers, procedures and processes of governmental agencies, e.g., decision-making processes in execution of administrative legislation, adjudication and discretion duties, rights and liabilities of public officials.

PSCI 5840. Modeling and Simulation for Policy Analysis (3)

This course will investigate the methodology of modeling and computer simulation as applied to social systems and complex organizational/administrative problems in the public sector. Specific attention will be addressed to the problem of model building, forecasting public policy consequences, and assessment of simulation validity and usefulness. Prior knowledge of computer programming and applications is NOT required.

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PSCI 5860. Public Policy Analysis (3)

This course will study processes by which public policy is formulated, implemented, and evaluated. Emphasis will be placed on increasing understanding and developing skills of critical assessment and inquiry of policies with respect to a) the development as courses of action for problem resolutions, b) the environmental context of policy actions, c) the application/administrations of public policy, d) methods for the assessment of resultant impacts/consequences of policy actions.

PSCI 5870. Logic and Method in Administrative and Policy Research (3)

This course will focus upon the basis of empirical research, the collection and analysis of quantitative data for the purpose of decision-making. Prerequisite: An introductory course in social science methodology or statistics, or consent of instructor.

PSCI 5970. Selected Topics offered during Winter Term (4)

PSCI 5980. Individual Study (1-4)

For postbaccalaureate students in Public Administration who seek advanced and specialized study. Prerequisites: Consent of instructor and approval of graduate adviser.

PSCI 5990. Thesis (1-6)

Thesis research. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of graduate adviser.
The Department of Psychology offers the degrees Bachelor of Arts, Master of Arts, and Master of Science, Psychology. Concentrations in Clinical Psychology, Correctional Psychology, and School Psychology are available in the M.S. program. The objective of the major program is to provide for those who: (1) wish to extend their education in the liberal arts with an emphasis on psychology, (2) plan to enter a profession or occupation in which a strong background in psychology is necessary, or (3) wish to prepare for graduate work in psychology. The Department of Psychology also offers a minor in Psychology.

The School of Behavioral and Social Sciences offers a Bachelor of Arts, Social Sciences, with an interdepartmental major in psychology and any other two disciplines within the social sciences. (For further information, see Social Sciences.)

REQUIREMENTS FOR BACHELOR OF ARTS, PSYCHOLOGY

Psychology majors are to:

1. Complete requirements for the Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 26 upper division units, as approved by the major adviser; of these, no more than 8 units of CR graded Winter Term course work may apply toward the major.
4. Completion of a minor is not required.

DEGREE MAJOR IN PSYCHOLOGY

Prerequisites to the Major:

PSYC 2010. Introduction to Psychology, 3 units, or equivalent
PSYC 2020. Introduction to Psychological Methods, 3 units, or equivalent
Required courses in supporting fields:

1. ANTH 2060. Introduction to Cultural Anthropology, 3 units 
or SOCL 1010. Introduction to Sociology, 3 units

2. BIOL 1010. Principles of Biology, 4 units 
or ZOOL 1050. Introduction to Zoology, 4 units

Recommended course in supporting field:

MATH 1600. Statistics, 4 units

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<tr>
<th>The Major</th>
<th>Units</th>
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<tr>
<td>PSYC 3000. Experimental Methods &amp; Design, 4 units</td>
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<td>At least 2 laboratory courses from the following</td>
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<tr>
<td>PSYC 3300. Social Psychology Laboratory, 1 unit</td>
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<tr>
<td>PSYC 3510. Perception &amp; Cognition Laboratory, 1 unit</td>
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<tr>
<td>PSYC 3710. Learning &amp; Motivation Laboratory, 1 unit</td>
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<tr>
<td>Upper division courses in psychology as approved by major adviser</td>
<td>20</td>
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<tr>
<td>Total</td>
<td>26</td>
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Majors are normally expected to take a broad basic program consisting of at least 2 courses from Group I, and 1 course from Groups II and III.

Group I

| PSYC 3130. Human Development, 3 units |
| PSYC 3160. Introduction to Psychological Testing, 3 units |
| PSYC 3790. Introduction to Counseling Theory, 3 units |
| PSYC 4150. Learning Disabilities, 3 units |
| PSYC 4750. Applied Behavior Analysis with Learning Handicapped, 3 units |
| PSYC 4790. Behavioral Engineering, 3 units |

Group II

| PSYC 3090. Comparative Animal Behavior, 3 units |
| PSYC 3100. Introduction to Physiological Psychology, 4 units |
| PSYC 4110. Behavior Genetics, 3 units |
| PSYC 4520. Principles of Sensory Processes, 4 units |
| PSYC 4720. Experimental Analysis of Behavior, 3 units |

Group III

| PSYC 3310. Introduction to Social Psychology, 3 units |
| PSYC 3320. Introduction to Personality, 3 units |
| PSYC 3350. Introduction to the Study of Abnormal Behavior, 3 units |
DEGREE MINOR IN PSYCHOLOGY

Eighteen units, to include at least 12 units in upper division.

Lower Division

PSYC 2010. Introduction to Psychology, 3 units
PSYC 2020. Introduction to Psychological Methods, 3 units

Upper Division

Courses as approved by minor adviser, 12 units.

LIBERAL STUDIES CONCENTRATION IN PSYCHOLOGY

A liberal arts concentration in the area of Psychology must include the following course:

PSYC 2020. Introduction to Psychological Methods, 3 units

The student must also complete a minimum of 17 units of upper division psychology courses with at least two courses to be selected from Group I and one course from each of Groups II and III.

TEACHING CREDENTIALS

Psychology majors interested in teaching credentials are referred to the Education section of the catalog for a description of teaching credential programs.

LEARNING HANDICAPPED: SPECIAL EDUCATION CREDENTIAL

Students planning careers in the field of learning handicapped should consult with the credential adviser in the Department of Psychology regarding program requirements.

MASTER OF ARTS IN PSYCHOLOGY

The M.A. program in Psychology is designed (1) to prepare students for advanced graduate work, or (2) for those students who desire a research-oriented program. (Admission to the program is competitive.)

Minimum prerequisites for admission to the Master of Arts Degree Program:

1. A bachelor's degree with 16 approved semester units in psychology, including a background in experimental and research skills. These courses must be acceptable to the Psychology Graduate Committee in terms of course content and student performance.
2. Superior performance in the undergraduate major (3.0 GPA).
3. Satisfactory performance on the Miller Analogies Test and Graduate Record Exam (General portion).
4. Choose an area of interest and a faculty member with whom you would like to work. Include a brief description of a sample problem you might choose as a thesis.

5. Three letters of recommendation.

6. Approval by the Psychology Department.

Continuation in the M.A. Degree Program:

1. Maintenance of a 3.0 in all courses attempted.
2. Full time student status.

REQUIREMENTS FOR THE M.A. DEGREE

1. Completion of the appropriate 30 semester units.
   a. All students must complete:
      
      PSYC 5000. Proseminar I, 4 units
      PSYC 5010. Proseminar II, 4 units
      PSYC 5940. Field Work, 6 units
      PSYC 5990. Master's Thesis, 6 units
      
      b. The remaining 10 semester hours must be selected from the available 4000- and 5000-level catalog courses. These courses are to be selected with prior approval of the student's thesis committee. (PSYC 5780, 5900, 5910, and 5930 are not open to M.A. students.)
   
   2. Satisfactory completion of the M.A. research including a public defense of the thesis.

MASTER OF SCIENCE IN PSYCHOLOGY

The primary purpose of the M.S. program in Psychology is to develop mastery of a substantial body of knowledge and skills for students planning careers in clinical, correctional, counseling, and school psychology. By selecting an emphasis in school psychology, a student can plan a program to complete requirements for the State Credentials of Psychometry and School Psychology. The student, in consultation with his faculty advising committee, develops a program of study appropriate to his career interests and goals. (Admission to the program is competitive.)

Minimum prerequisites for Admission to the Master of Science Degree Program:

1. A bachelor's degree with 16 approved semester units in psychology including a background in experimental and research skills. These courses must be acceptable to the Psychology Graduate Committee in terms of course content and student performance. Students without the approved courses may be accepted into unclassified graduate standing. Such students will be given the opportunity to make up background deficiencies commensurate with graduate criteria.

2. Superior performance in the undergraduate major (3.0 GPA).
Psychology

3. Completion of a set of examinations which may be administered by the Psychology Department to determine those areas in which further preparation is required.
4. Approval by the Psychology Department.
5. Satisfactory performance on the Miller Analogies Test.

Continuation in the Degree Program:

1. Maintenance of a 3.0 GPA in all courses attempted.
2. Maintenance of satisfactory progress toward the degree.
3. An unclassified graduate student will not be admitted to classified graduate standing in psychology if she/he has earned more than three units of graduate study graded less than "B." A classified graduate student in psychology will be dropped from classified standing if she/he receives more than three units of graduate study graded less than "B." However, any graduate student may retake a course graded less than "B" for a higher grade, and a classified student must remove such grade deficits (in excess of three units) in the next semester or petition the Graduate Committee for a time extension if it is impossible to make up the deficit. In no case will more than three units of graduate study graded less than "B" be counted towards a Master's Degree.

REQUIREMENTS FOR THE DEGREE

1. All students are required to complete the appropriate 50 or more semester units or their equivalent.
2. All students complete the 34 core semester units listed in sections A, B, and C.
3. All students will complete a minimum of an additional 16 semester units chosen by himself with his advising committee and approved by the Graduate Committee. These courses will usually follow one of the special emphasis areas but may be specially selected to meet the student's unique career goal if the graduate committee approves. The graduate committee may require additional units.
4. Students may satisfy any course requirements by demonstrating proficiency in the subject matter included in a required course. This will normally be done through challenge procedure or acceptable transfer credit.

A. Basic Requirements (10 units)
   PSYC 5940. Field Work, 4 units
   PSYC 5990. Master's Thesis, 6 units

B. General Principles (14 units)
   PSYC 4720. Experimental Analysis of Behavior, 3 units
   PSYC 4820. Group Dynamics Seminar, 3 units
   PSYC 5000. Proseminar I (Applied Research Methods), 4 units
   PSYC 5010. Proseminar II (Advanced Learning), 4 units
C. Clinical Principles (10 units)

PSYC 4360. Seminar in Clinical & Abnormal Psychology, 3 units
PSYC 4820. Group Dynamics Seminar, 3 units
and either
PSYC 5030. Psychodiagnostics I, 3 units
PSYC 5040. Psychodiagnostics I Laboratory, 1 unit
or
PSYC 5050. Psychodiagnostics II, 3 units
PSYC 5060. Psychodiagnostics II Laboratory, 1 unit

Normally the student will choose the additional 16 semester hours from one of the following groups. Students interested in the School Psychology Credential must complete all of the courses listed under the School Psychology heading.

CLINICAL PSYCHOLOGY CONCENTRATION

PSYC 4150. Learning Disabilities, 3 units
PSYC 4750. Applied Behavior Analysis with Learning Handicapped, 3 units
PSYC 4790. Behavioral Engineering, 3 units
PSYC 5130. Advanced Human Development, 3 units
PSYC 5640. Advanced Seminar in Behavior Change, 3 units
PSYC 5720. Behavioral Consultation, 2 units
PSYC 5910. Practicum in Counseling & Diagnostics, 2 units
PSYC 5930. Practicum in Behavior Modification, 2 units

SCHOOL PSYCHOLOGY CONCENTRATION

EDUC 5040. Philosophy of Education, 2 units
EDUC 5500. Organization of Public Education, 2 units
EDUC 5520. Legal & Financial Aspects of Education, 3 units
EDUC 5540. Exceptional Children and Youth, 3 units
EDUC 5760. Pupil Personnel Services Seminar, 2 units
PSYC 5050. Psychodiagnostics II, 3 units
PSYC 5060. Psychodiagnostics II Laboratory, 1 unit
PSYC 5130. Advanced Human Development, 3 units
PSYC 5720. Behavioral Consultation, 2 units
PSYC 5780. Advanced Counseling, 3 units
PSYC 5910. Practicum in Counseling & Diagnostics, 2 units
PSYC 5940. Field Work, 2 units

CORRECTIONAL PSYCHOLOGY CONCENTRATION

PSCI 4900. Seminar in Criminal Justice, 3 units
PSYC 5910. Practicum in Counseling & Diagnostics, 2 units
PSYC 5940. Field Work, 2 units
SOCL 4120. Sociology of Crime & Delinquency, 3 units
SOCL 4130. Sociology of Correction, 4 units
SOCL 4140. Sociology of Law, 3 units
SOCL 4250. Criminal Justice II, 3 units
SOCL 5000. Seminar in Criminology, 3 units

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Psychology

COUNSELING CONCENTRATION

PSYC 5130. Advanced Human Development, 3 units
PSYC 5720. Behavioral Consultation, 2 units
PSYC 5780. Advanced Counseling, 3 units
PSYC 5910. Practicum in Counseling & Diagnostics, 2 units

Electives:

PSYC 5050. Psychodiagnostics II, 3 units
PSYC 5060. Psychodiagnostics II Laboratory, 1 unit
PSYC 5790. Family Counseling Theory & Practice, 3 units
PSYC 5800. Marriage and Family Life, 3 units
PSYC 5900. Practicum in Marriage & Family Counseling, 2 units
PSYC 5980. Individual Study, 1-4 units

COURSE DESCRIPTIONS

Lower Division

PSYC 2010. Introduction to Psychology (3)

Scientific study of human behavior. This course or its equivalent is a prerequisite to all other courses in psychology, including all 2000-level courses.

PSYC 2020. Introduction to Psychological Methods (3)

Basic techniques and procedures for making systematic observations in a wide variety of psychological situations, both laboratory and field. Psychological methods demonstrated through topics of current research and application, and through demonstration-lab projects. Prerequisite: PSYC 2010 or equivalent.

PSYC 2800. Psychology of Religion (3)

The course will focus on subjective and behavioral responses to a variety of religions and other belief systems. Topics will include the origins of religious belief, conversion, mystical states and the relation of religious commitment to personality development, other social attitudes (e.g., prejudice), morals, and mental health. Prerequisite: PSYC 2010 or equivalent.

PSYC 2950. Selected Topics in Psychology (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of psychology. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor and PSYC 2010 or equivalent.

PSYC 2970. Selected Topics offered during Winter Term (4)
Upper Division

PSYC 2010 and PSYC 2020 or equivalents are prerequisites to all upper division psychology courses.

PSYC 3000. Experimental Methods and Design (4)

Provides a working knowledge of fundamental scientific methods in psychology, stressing the integration of laboratory methods, measurement theory and inferential statistical techniques, including introduction to analysis of variance. This course is a prerequisite to the two laboratory courses, chosen from PSYC 3300, 3510 or 3710, required of psychology majors. (Formerly 400) Prerequisites: PSYC 2020 and completion of the General Education requirement in Logic-Math-Statistics. MATH 1600 is strongly recommended to meet this requirement.

PSYC 3080. Comparative Animal Behavior Laboratory (1)

Laboratory experiments and field observation will focus upon the ways in which different species deal with the basic biological problem of foraging and feeding, defense, and reproduction. Prerequisite: PSYC 3090 or concurrent enrollment.

PSYC 3090. Comparative Animal Behavior (3)

A comparative study of behavior systems in animals and man. Stress is upon the social and developmental aspects of behavior. Prerequisite: BIOL 1010 or ZOOL 1050. Concurrent enrollment in PSYC 3080 not required.

PSYC 3100. Introduction to Physiological Psychology (4)

Relationship between behavior and physiological processes, particularly neurophysiological processes. (Lecture 3 hours, laboratory 3 hours). Prerequisite: BIOL 1010 or ZOOL 1050.

PSYC 3120. Human Development Laboratory (1)

Systematic observation of human behavior at various stages of development. Prerequisite: Concurrent enrollment in PSYC 3130 or consent of instructor.

PSYC 3130. Human Development (3)

The psychology of development: infancy, childhood, adolescence, and maturity. Prerequisite: PSYC 2020. Concurrent enrollment in PSYC 3120 not required.
Psychology

PSYC 3160. Introduction to Psychological Testing (3)

Basic, widely applicable principles of psychological testing, presented in a non-technical way, plus descriptions of representative types of psychological tests in common use. Prerequisite: PSYC 2020.

PSYC 3170. Early Cognitive Development (3)

Human behavior will be dealt with in naturalistic terms via an examination of child intellectual development, with emphasis on Piaget, Montessori, and other cognitive theorists. (Formerly 413) Prerequisite: PSYC 3150 or consent of instructor.

PSYC 3300. Social Psychology Laboratory (1)

Laboratory and field studies to demonstrate the variety of methods and content areas in social psychology. Prerequisites: PSYC 3000 and concurrent enrollment in PSYC 3310, or consent of instructor.

PSYC 3310. Introduction to Social Psychology (3)

Interpersonal relations including social attitudes, opinions, social structures, and group dynamics. (Formerly 431) Prerequisite: PSYC 2020. Concurrent enrollment in PSYC 3300 not required.

PSYC 3320. Introduction to Personality (3)

Survey of the most influential approaches to the study and understanding of personality with emphasis on comparison of critical, theoretical issues. (Formerly 321) Prerequisite: PSYC 2020.

PSYC 3500. Introduction to Perception and Cognition (3)

Basic phenomena in the related areas of perception and cognition. Simple and complex responses to stimuli. Concepts such as form perception and organization, color illusions, space, attention and thinking processes, decision-making, thinking and language. Prerequisite: PSYC 2020. Concurrent enrollment in PSYC 3510 not required.

PSYC 3510. Perception and Cognition Laboratory (1)

Laboratory experience in phenomena related to perception and cognition. (Formerly 3490) Prerequisites: PSYC 3000 and concurrent enrollment in PSYC 3500, or consent of instructor.
PSYC 3700. **Introduction to Learning and Motivation** (3)

Basic phenomena of learning and motivation such as: instrumental and classical conditioning, stimulus generalization, verbal learning, transfer and retention, drives, rewards, and punishment. Prerequisite: PSYC 2020. Concurrent enrollment in PSYC 3710 not required.

PSYC 3710. **Learning and Motivation Laboratory** (1)

Laboratory experiments within the framework of human (e.g., verbal) learning for the purpose of introducing and implementing predominant statistical techniques associated with this area (i.e., analysis of variance, factorial designs, planned comparisons). (Formerly 3690) Prerequisites: PSYC 3000 and concurrent enrollment in PSYC 3700, or consent of instructor.

PSYC 3790. **Introduction to Counseling Theory** (3)

Introduction to major theories of counseling. Demonstrations and review of current literature. (Formerly 477) Prerequisite: PSYC 3310 or 3320.

PSYC 4020. **History of Psychology** (3)

Trends of thought, development of psychology as a discipline with leaders, schools, and issues. Prerequisites: PSYC 2020 and two upper division courses in psychology, or consent of instructor.

PSYC 4110. **Behavior Genetics** (3)

Evaluation of the genotypic contribution to human and animal behavior. Special emphasis on the interaction between genotype and environment during development. (Formerly 3110) Prerequisite: BIOL 1010 or ZOOL 1050.

PSYC 4130. **Psychological Disorders of Children** (3)

A review of theories and treatment techniques dealing with a broad range of childhood disorders, including autism, childhood schizophrenia, mental subnormality, and psychophysiological problems. A behavioral approach, based on empirical evidence, will be emphasized. Prerequisite: PSYC 3130.

PSYC 4150. **Learning Disabilities** (3)

Overview of the major categories of learning disabilities including educationally retarded and behavior disorders. Survey of instructional programs and review of supportive data for those programs. (Formerly 414) Prerequisite: PSYC 3130 or consent of instructor.
PSYC 4360. Seminar in Clinical and Abnormal Psychology (3)

Survey of theory and research in clinical and abnormal psychology, with emphasis on diagnosis and treatment systems. Prerequisites: PSYC 3130 or 3320, 3350, and graduate standing.

PSYC 4520. Principles of Sensory Processes (4)

The psychophysical analysis of spatial and temporal properties of the human senses. (Formerly 3520) (Lecture, 3 hours; laboratory, 3 hours). Prerequisite: BIOL 1010 or ZOOL 1050.

PSYC 4720. Experimental Analysis of Behavior (3)

Study of advanced application and methods in operant research, including practical experience in both laboratory and institutional settings. (Lecture, 2 hours; laboratory, 3 hours) Prerequisite: PSYC 2020.

PSYC 4750. Applied Behavior Analysis with Learning Handicapped (3)

Application of learning principles to educational and behavioral problems of individuals. Prerequisite: PSYC 4150 and 4720.

PSYC 4770. Introduction to Counseling Techniques (3)

Training in basic counseling skills. (Lecture, 2 hours; laboratory, 3 hours) (Formerly 577) Prerequisites: PSYC 3790, senior standing, and consent of instructor.

PSYC 4790. Behavioral Engineering (3)

Interpretation of learning theory principles and research in the design, implementation and evaluation of educational and pro-social programs. Prerequisites: PSYC 4720.

PSYC 4820. Group Dynamics Seminar (3)

A critical review of theory, research, and practice related to group behavior, including factors influencing communication, decision-making, group cohesiveness, and productivity. Prerequisite: PSYC 3310 or consent of instructor.

PSYC 4850. Psychology of Sex Differences (3)

Critical study of research and theory relating to sex differences in personality and behavior patterns, the biological and social bases for sex differences, and the potential for role change. Prerequisites: PSYC 2010, 2020, and one upper division course in psychology.
PSYC 4900. Advanced General Psychology (3)

Review of the major content areas of psychology. Synthesis of concepts, facts, and methods studied in specialized upper division courses. (Formerly 497) Prerequisites: At least two 4000-level psychology courses and senior standing or consent of instructor.

PSYC 4940. Field Work in Psychology (1-2)

Work of a psychological nature performed in schools, agencies, and institutions under joint supervision of the department and agency where assigned. May be repeated for a total of 6 units, 2 of which can be applied to the major. Prerequisites: PSYC 2020 and prior consent of instructor.

PSYC 4950. Selected Topics in Psychology (Topics to be specified in Class Schedule) (1-5)

Development of a specific area in psychology. Topics will vary depending on instructor. Different topics may be taken for a total of 6 units. Prerequisite: Prior consent of instructor.

PSYC 4970. Selected Topics offered during Winter Term (4)

PSYC 4980. Individual Study (1-4)

For students capable of independent work and desirous of undertaking specialized study. May be repeated for a total of 6 units. Prerequisite: Prior consent of instructor.

Graduate

PSYC 5000. Proseminar I (4)

Advanced seminar in psychological research methods and statistical analysis. Includes a formal research paper on an applied topic such as evaluation of an institution-related program. (Lecture, 3 hours; laboratory, 3 hours) Prerequisites: PSYC 3000, or consent of instructor, and graduate standing.

PSYC 5010. Proseminar II (4)

Study of advanced principles of learning and motivation with special reference to human learning. (Lecture, 3 hours; laboratory, 3 hours) Prerequisites: Graduate standing and consent of instructor.

PSYC 5030. Psychodiagnosics I (3)

Strategies of diagnostic evaluation with emphasis upon instruments for evaluation of intelligence, aptitudes, personality, and interests of adolescents and adults. (Formerly 416, 561)
Prerequisites: PSYC 3160, classified graduate standing, consent of instructor, and concurrent enrollment in PSYC 5040.

PSYC 5040. Psychodiagnostics I Laboratory (1)

Supervised work with the application of diagnostic strategies to representative cases. (Formerly 416) Prerequisite: Concurrent enrollment in PSYC 5030.

PSYC 5050. Psychodiagnostics II (3)

Strategies of diagnostic evaluation with emphasis upon instruments for evaluation of intelligence, achievement, learning abilities, and emotional adjustment of preschool and school age children. Prerequisites: PSYC 3160, classified graduate standing, consent of instructor, and concurrent enrollment in PSYC 5060.

PSYC 5060. Psychodiagnostics II Laboratory (1)

Supervised work with the application of diagnostic strategies to representative cases. Prerequisite: Concurrent enrollment in PSYC 5050.

PSYC 5130. Advanced Human Development (3)

Empirical research on theoretical constructs of human development. Prerequisites: PSYC 3130 or equivalent and four upper division courses in psychology and graduate standing.

PSYC 5640. Advanced Seminar in Behavior Change (3)

Study of current theories and research in behavior therapy. Prerequisites: PSYC 4720 and consent of instructor. PSYC 4750 or PSYC 4780 recommended. Graduate standing.

PSYC 5720. Behavioral Consultation (2)

Supervised work for consultation with classroom teachers. Prerequisites: Classified graduate standing and consent of instructor.

PSYC 5780. Advanced Counseling (3)

Counseling practices including commonly used methods of psychotherapy and practice in techniques of counseling. Prerequisites: PSYC 3790, 4770, and classified graduate standing.

PSYC 5790. Family Counseling Theory and Practice (3)

Study of theory and techniques of conjoint family therapy with consideration of such topics as parent-child relationships, human sexuality, and combined families. Prerequisites: PSYC 3790, 4770, and graduate standing.

378
PSYC 5800. Marriage and Family Life (3)

The study of marriage with special reference to cross-cultural mores and values, marital law, communication in marriage, and current social problems relevant to the marital relationship. Prerequisites: Graduate standing and SOCL 3150.

PSYC 5900. Practicum in Marriage and Family Counseling (2)

Supervised experience in conjoint family and marriage techniques. A minimum of four counseling cases (couple or family) will be seen by each student. Emphasis will be on improved communication, goal setting, and contracts within families. Students will make a minimum of two formal written and oral presentations per semester to the faculty and fellow graduate students in case conferences. The student will also attend one formal supervision session per week with a designated instructor. (Formerly 597) Prerequisite: PSYC 5910.

PSYC 5910. Practicum in Counseling and Diagnostics (2)

Supervised experience in diagnostic testing, individual counseling and exposure as cotherapist to group counseling. There will be a minimum of four diagnostic workups, one continuous individual case, and one continuous group exposure per term. Students will make a minimum of two formal written and oral presentations per semester to the faculty and fellow graduate students in case conferences. The student will also attend one formal supervision session per week with the designated instructor. This course is the first in a sequence to be followed by PSYC 5930 or 5970, or both. Prerequisites: PSYC 3160, 5780, classified graduate standing, and consent of instructor.

PSYC 5930. Practicum in Behavior Modification (2)

Supervised experience in the assessment and modification of behavior with an emphasis on the conditioning of the behavior of children. A minimum of three cases will be seen with formal reports of assessment and change data. Students will make a minimum of two written and oral presentations per semester to the faculty and fellow graduate students in case conferences. The student will also attend one formal supervision session per week with the designated instructor. Prerequisite: PSYC 5910.

PSYC 5940. Field Work (1-4)

Work of a psychological nature performed in schools, agencies, and institutions under joint supervision of the college and agency where assigned. May be repeated for a total of 6 units. (Formerly 592) Prerequisites: Graduate standing and prior consent of instructor.
Psychology

PSYC 5970. Selected Topics offered during Winter Term (4)

PSYC 5980. Individual Study (1-4)

For qualified postbaccalaureate students in need of advanced and specialized study. Different topics may be taken for a total of 6 units. Exception to the 6-unit limit may be granted by the Graduate Committee. Prerequisite: Prior consent of instructor.

PSYC 5990. Master's Thesis (1-6)

Preparation of a thesis in area of specialty for partial fulfillment of requirements. Prerequisite: Admission to classified graduate standing.
Public Administration

Graduate Studies Committee

Richard G. Mendes, Ph.D., Associate Professor of Political Science, Director
William Dale Crist, Ph.D., Associate Professor of Economics
Lawrence L. Giventer, M.S., Assistant Professor of Political Science

The Department of Political Science and the Department of Economics jointly offer graduate study leading to the degree of Master of Public Administration. The program is designed for persons preparing for careers in public service, research, and teaching. The program draws upon theories, concepts, and methods of the social, behavioral, and management sciences. The objective of the program is to provide the student with knowledge of and assistance in the understanding of public administration in terms of its political, economic, and social aspects with special emphasis on (a) administrative organizations and administrative management, and (b) public policy and policy analysis.

ADMISSION REQUIREMENTS

1. A baccalaureate degree from an accredited college or university
2. A GPA of 2.5 in the last 60 semester units attempted
3. Three letters of recommendation
4. Evaluation and approval of application by the Graduate Studies Committee in Public Administration

REQUIREMENTS FOR THE DEGREE

1. Unit Requirement
   All students are required to complete a minimum of 30 semester units of upper division and graduate courses and seminars.
   A minimum of 15 of these units must be in graduate courses and seminars.

2. Course Requirement
   All students are required to complete the following four courses:
   
   ECON 5850. Seminar in Public Finance and Fiscal Policy, 3 units
   PSCI 5801. Administration in Public Affairs, 3 units
   PSCI 5860. Public Policy Analysis, 3 units
   PSCI 5870. Logic & Method in Administrative and Policy Research, 3 units
Public Administration

Students who have not had formal study in politics, economics or mathematics-statistics may be advised to take basic courses in these fields prior to engaging them at the graduate level.

All students will complete in addition to the above-noted required courses a minimum of 18 elective units (in the 4000-5000 series) chosen by the student in consultation with his/her adviser. These electives will permit some specialization and may be selected to meet each student's own career needs.

3. Grade Requirements

No grade less than a "B" is acceptable for the completion of a core course. A student who receives less than a "B" in a core course must take the course again. Any student who takes the same core course twice and does not receive a "B" or better will be dropped from the program.

No course with a grade below "C" may apply toward completion of the M.P.A.

Any student who completes more than two courses with a grade of "C" or below will be dropped from the program.

Any student who receives a grade lower than "C" will have his/her performance reviewed by the graduate studies committee and may be dropped from the program.

4. Thesis and Examination Requirement

All students are required to complete successfully one of the following options in partial fulfillment of the degree requirements:

a. A written thesis with oral examination
b. A written comprehensive examination

The option is to be selected by the student in consultation with his/her adviser.

5. Candidate Evaluation

The degree may be awarded to a student, who has advanced to candidacy, upon certification of successful completion of the required unit and course work, approval of a thesis and successfully passing the oral examination or successfully passing the written comprehensive examination, and a review and approval of the candidate's overall graduate record by the Graduate Studies Committee.
MASTER OF PUBLIC ADMINISTRATION DEGREE

REQUIRED COURSES

- ECON 5850. Seminar in Public Finance & Fiscal Policy, 3 units
- PSCI 5801. Administration in Public Affairs, 3 units
- PSCI 5860. Public Policy Analysis, 3 units
- PSCI 5870. Logic & Method in Administrative and Policy Research, 3 units

ELECTIVE COURSES

- PSCI 4200. Problems in Civil Liberties, 3 units
- PSCI 4330. Urban Politics, 4 units
- PSCI 4420. Comparative Bureaucracies, 3 units
- PSCI 5820. Seminar in Problems of Public Administration, 3 units
- PSCI 5830. Administrative Law & Public Policy, 3 units
- PSCI 5840. Modeling & Simulation for Policy Analysis, 3 units
- PSCI 5990. Thesis, 1-6 units

- ECON 4100. Labor Economics, 3 units
- ECON 4110. Collective Bargaining in the Public Sector, 3 units
- ECON 4300. Mathematical Economics, 3 units
- ECON 4430. International Economic Policies, 3 units
- ECON 4450. Economic Planning, 3 units
- ECON 4550. Taxation and the American Economy, 3 units
- ECON 4600. Urban Economics, 3 units
- ECON 5990. Thesis, 1-6 units

- BUS 4180. Management Information Systems, 3 units
- BUS 4360. Human Problems in Administration, 3 units
- BUS 4880. Organization Behavior, 3 units
- GEOG 4350. Urban Geography, 4 units
- MATH 4460. Introduction to Operations Research II, 4 units
- SOCL 4140. Sociology of Law, 3 units
- SOCL 4250. Criminal Justice II, 3 units
- SOCL 4520. Personality and Society, 3 units
- SOCL 4800. Formal Organizations, 3 units

Additional coursework is offered in the fields of:

- Budgeting
- Public Personnel Administration
- Organization Theory
- Administrative Theory
- Group Dynamics/Group Communication
- Urban/Regional Planning
The Bachelor of Arts, Social Sciences, major is an interdepartmental degree program, consisting of courses in the following disciplines: anthropology, economics, geography, history, political science, psychology, sociology, speech communication. A student majoring in social sciences may select one of the following options:

1. A program of courses in three fields of interest, selected as shown under "Requirements" below.
2. A program consisting of one of the following concentrations:
   - Administration of Justice (see p. 103)
   - International Studies (see p. 280)
   - Urban and Community Studies (see p. 416)
3. A program designed for teaching credential candidates who wish to major in the social sciences.

REQUIREMENTS FOR BACHELOR OF ARTS, SOCIAL SCIENCES

Social sciences interdepartmental majors are to:

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete the general prerequisite: one lower division research methods course in the field of his major interest. These include PSYC 2020, SOCL 2030, PSCI 2000, HIST 2900. Students in other fields will take PSYC 2020 or SOCL 2030.
3. Complete the major of not less than 32 upper division units, as approved by the adviser, and distributed as follows:
   - 4 courses in the discipline of student's major interest
   - 3 courses in a second discipline
   - 3 courses in a third discipline
   - 1 Social Sciences Interdisciplinary Seminar

11 courses of not less than 32 upper division units; of these no more than 8 units of CR graded Winter Term course work may apply toward the major.

RULES FOR SELECTION OF COURSES

ANTHROPOLOGY. Prerequisite: ANTH 2050, Introduction to Cultural Anthropology, 3 units. Note additional prerequisites to certain courses.

Any upper division course may be selected, with the adviser's consent.
ECONOMICS. Prerequisite: ECON 2500, Principles of Economics I, 4 units, or equivalent.

Upper division courses: Select one course from three or four of the following fields:

1. Economic Theory and Doctrines
2. Money and Banking
3. Public Finance and Fiscal Policy
4. Labor Economics
5. International Economics
6. Economic History

GEOGRAPHY: Prerequisite: One of the following:

GEOG 2000. Interaction: Man and the Earth, 3 units
GEOG 2010. Introduction to the Physical Environment, 3 units
GEOG 2020. Introduction to Cultural Geography, 3 units
GEOG 2400. World Regional Geography I, 3 units
GEOG 2410. World Regional Geography II, 3 units

Upper division courses: At least one course selected from Group A, Topical (human or physical) Geography, or Group C, Methodology; and at least one course selected from Group B, Regional Geography.

HISTORY: Prerequisite: One year of lower division history, United States History, Western Civilization, or Non-Western History.

All students electing history as their field of major interest must take HIST 3000, Introductory Seminar. Courses should be selected in such a way that the student will have had at least one course, in either upper or lower division, in each of the following fields:

1. European History
2. United States History
3. Non-Western History

POLITICAL SCIENCE:

Prerequisite: PSCI 1200, American Government, 3 units

1. American Politics: Select 2 courses at the 3000 level.
2. Select additional courses from:
   a. Political Theory and Methodology
   b. Comparative Politics
   c. International Relations

PSYCHOLOGY: Prerequisites: PSYC 2010, Introduction to Psychology, and PSYC 2020, Introduction to Psychological Methods, or SOCL 2030, Research Methods.
Upper division courses: Three upper division courses are required, or four if psychology is chosen as the field of major interest. One course should normally be chosen from each of Groups I, II, and III described for psychology majors or substitute courses from outside these groups with the adviser's consent.

SOCIOLOGY: Prerequisite: SOCL 1010. Introduction to Sociology, 3 units

Any upper division course may be selected with the adviser's consent.

SPEECH COMMUNICATION:

Prerequisite: SPCH 2010. Oral Communication Processes, 4 units

One course selected from each of the following groups; a fourth course may be selected from any of the groups.

1. SPCH 3010. Language & Speech Development, 3 units
   SPCH 3020. Applied Structural and Psycholinguistics, 4 units
   SPCH 3050. General Semantics, 3 units
2. SPCH 4100. Group Communication, 3 units
   SPCH 3121. Message Design: Clarification, 3 units OR
   SPCH 4121. Message Design: Attitude Change, 3 units
3. SPCH 4000. Communication Theory, 4 units
   SPCH 4140. Rhetorical Theory, 3 units

NOTE: A student on entering the social sciences major should work out with his adviser a tentative program for the remainder of his undergraduate course. Thenceforth, he should work out a trial study list prior to each advising appointment. In such a broad major, close cooperation between adviser and advisee is necessary if mistakes are to be avoided.

TEACHING CREDENTIALS

A. By postponing his student teaching until his fifth year, a student may pursue a dual major (Liberal Studies and Social Sciences) which leads to a multiple subject credential and a single subject credential in the social sciences. This may be accomplished by the following:

1. Complete the liberal studies requirements (See Liberal Studies section) with a concentration in one of the following social sciences fields: anthropology, economics, geography, history, political science, psychology, sociology, speech communication.
2. Complete three upper division courses in each of two other social sciences fields and the Social Sciences Interdisciplinary Seminar.

3. Complete all other requirements for the Bachelor of Arts degree.

Courses to be taken under (1) or (2) above will be selected in consultation with the student's adviser and must consist of at least 32 upper division units in social sciences.

B. A student may pursue a social sciences major and qualify (except for the necessary professional courses) for a single subject credential in the social sciences. This may be accomplished by the following:

1. Complete the General Education and all other college-wide requirements for the degree.

2. Complete the general prerequisite: One of the following research methods courses: HIST 3000, PSYC 2010, PSYC 2020, or SOCL 2030.

3. Complete the major of not less than 32 upper division units, as approved by the adviser, and distributed as follows:

<table>
<thead>
<tr>
<th>Upper Division</th>
<th>Minimum</th>
</tr>
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<tbody>
<tr>
<td>History or political science</td>
<td>4 courses</td>
</tr>
<tr>
<td>The other of the above fields</td>
<td>2 courses</td>
</tr>
<tr>
<td>Anthropology, economics, geography, psychology, or sociology (one field)</td>
<td>2 courses</td>
</tr>
<tr>
<td>SSCI 4960, Social Sciences Interdisciplinary Seminar</td>
<td>1 course</td>
</tr>
<tr>
<td>Electives within the School</td>
<td>1-2 courses</td>
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<tr>
<td></td>
<td>10-11 courses</td>
</tr>
<tr>
<td></td>
<td>32 units minimum</td>
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</tbody>
</table>

**COURSE DESCRIPTION**

SSCI 4960. Social Sciences Interdisciplinary Seminar (3)

Discussions and papers based on concepts, theories, information and techniques from several social science disciplines. Prerequisite: Completion of 7 upper division courses in the major.
The Department of Sociology offers the Bachelor of Arts, Sociology. The major is offered to those who desire a comprehensive and meaningful academic experience. By its nature, the study of sociology provides significant insights into the nature of human behavior and human societies. In contemporary society, problems of human relationships are not only the most crucial, but the most challenging.

For the interested student, the programs in sociology offer preparation for careers in the most exciting and challenging problems of the future. Students arrange programs which lead to careers in many areas of community, public, and social services, corrections and rehabilitation, teaching, industrial and organizational activities, research, and continued academic work for advanced degrees.

A concentration in the Administration of Justice is serviced by the Sociology Department. Complete information on that program is available in the Social Sciences section of this catalog.

The College also offers the degree of Bachelor of Arts, Social Sciences. Those interested in this degree select an interdepartmental major in sociology and any two areas within the social sciences. (For additional information, see Social Sciences.)

REQUIREMENTS FOR THE BACHELOR OF ARTS, SOCIOLOGY

Sociology majors are to:

1. Complete requirements for the Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 30 upper division units, of which no more than 8 units of CR graded course work may apply toward the major. A grade of "C" or better must be received in all prerequisite courses; a "C" or better average must be maintained in the major.
4. Completion of a minor is not required.
DEGREE MAJOR IN SOCIOLOGY

Lower Division Requirements

SOCL 1010. Introduction to Sociology, 3 units
SOCL 2030. Research Methods, 4 units

Upper Division Requirements

A minimum of 31 upper division units, including
- Theory & Methodology (3000, 3030, 3410, 4410, 4960) . . . 15
- Electives from sociology . . . . . . . . . . . . . . . . . . 16

DEGREE MINOR IN SOCIOLOGY

Eighteen units approved by the adviser, including SOCL 1010, 2030, either 3000 or 3410, and 4 units of upper division electives.

TEACHING CREDENTIALS

Majors in sociology interested in elementary and secondary credentials are referred to the Education section of the catalog for a description of teaching credential programs.

CONCENTRATION IN CORRECTIONS WITHIN THE DEGREE MAJOR

A concentration in criminal corrections will provide recognition for sociology majors who have had more specialized preparation for a particular vocation than the general major provides. Since a career in criminal corrections is sought by many sociology majors this concentration will serve their interests more specifically than the general major.

Complete the prerequisites to the major, the additional prerequisites to the elective concentration, the requirements for the major, and the requirements for this concentration.

Upper Division

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>SOCL 3000. History of Sociology</td>
<td>2</td>
</tr>
<tr>
<td>SOCL 3030. Research Techniques</td>
<td>4</td>
</tr>
<tr>
<td>SOCL 3410. Modern Sociological Theory I</td>
<td>3</td>
</tr>
<tr>
<td>SOCL 4410. Modern Sociological Theory II</td>
<td>3</td>
</tr>
<tr>
<td>SOCL 4960. Senior Seminar</td>
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</table>

Total | 15

The concentration

<table>
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<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>SOCL 4120. Sociology of Crime &amp; Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>SOCL 4130. Sociology of Corrections</td>
<td>4</td>
</tr>
<tr>
<td>SOCL 4140. Sociology of Law</td>
<td>3</td>
</tr>
<tr>
<td>SOCL 4150. Sociology of Probation &amp; Parole</td>
<td>3</td>
</tr>
<tr>
<td>SOCL 4940. Field Experience--Immersion Semester</td>
<td>6</td>
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</tbody>
</table>

Total | 19

Total | 34
**LIBERAL STUDIES CONCENTRATION IN SOCIOLOGY**

Liberal studies majors with a concentration in sociology must complete 20 units of sociology courses including 15 units of upper division courses; three of these courses must be selected from the following: SOCL 3010, Race & Ethnic Relations; SOCL 3160, Sociology of Youth; SOCL 3150, The Family; SOCL 4000, Sociology of Education; and SOCL 4800, Formal Organizations.

**GRADUATE WORK IN SOCIOLOGY**

The department works closely with the Department of Psychology in offering graduate courses which are included in the Master of Science in Psychology program. Those graduate students who select the Correctional Psychology concentration are offered 20 units of graduate work in the areas of crime and corrections.

**COURSE DESCRIPTIONS**

**Lower Division**

SOCL 1010. Introduction to Sociology (3)

Basic concepts and perspectives in sociological analysis. Prerequisite to other sociology courses.

SOCL 2030. Research Methods (4)

Introduction to research design and methodology in sociology: theory, implications of theoretical framework, hypothesis formation, conceptualization and measurement of sociological variables, research process, research designs, methods of data collection, sampling procedures, and written report. Prerequisite: SOCL 1010 or equivalent.

SOCL 2240. Social Problems (3)

The causes and consequences of selected social problems in contemporary American society are examined.

SOCL 2950. Selected Topics in Sociology (Topics to be specified in Class Schedule) (1-5)

Development of a selected area of sociology. Topics vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

SOCL 2970. Selected Topics offered during Winter Term (4)
Upper Division

SOCL 3000. History of Sociology (2)

The emergence of sociology from social philosophy and the development of sociological thought.

SOCL 3010. Race and Ethnic Relations (3)

Sociological analysis of minority group relations; attention to specific racial, ethnic, and religious minorities. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 3020. Criminal Justice Research (3)

Basic social science research methods applied to gathering data in criminal justice and criminological research. The focus will be on the special problems encountered in research settings and groups where information about crime is to be gathered and analyzed. Includes review of research in this area. Prerequisite: SOCL 2030.

SOCL 3030. Research Techniques & Analytic Procedures (4)

Social measurement, data analysis and interpretation, formulation of research designs, and application of research techniques. Includes understanding and performing basic research. Prerequisite: SOCL 2030.

SOCL 3150. The Family (3)

Social structure and changing functions of the modern family. Relationship of family to other social institutions. Family roles and interaction. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 3160. Sociology of Youth (3)

Sociological analysis of the development of self and the socialization of the child and youth in sex and age roles. Prerequisite: SOCL 1010.

SOCL 3200. Social Change (3)

Sociology and social change, types and problems of change, factors in rate and direction of change, classic and modern theoretical analysis of social change. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 3250. Criminal Justice I (3)

A survey of basic institutions and processes of criminal justice in the United States. Prerequisite: Junior standing.
Sociology

SOCL 3310. Social Stratification (3)

Origins, characteristics, and functions of social castes and classes; emphasis on recent research and theoretical developments. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 3410. Modern Sociological Theory I (3)

Major contributions to systematic sociological theory: Critical analysis of selected works from Comte, Pareto, Weber, Durkheim, Mannheim, and other classical sociologists. Prerequisite: SOCL 3000 or consent of instructor.

SOCL 3430. Population, Resources, and the American Future (3)

Is population a problem in contemporary America? An examination of the effects of rapid population growth and its relationship to the rapid depletion of renewable and non-renewable resources both now and in the future. (Formerly 3420) Prerequisites: SOCL 1010, 2030, or consent of instructor.

SOCL 3610. Small Groups Seminar (3)

Structure and processes of small human groups, theory, research methods, and empirical findings. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 3720. Social Welfare Services (4)

Historical development of welfare services; analysis of the structure, policies, and issues of public and private welfare services. Field experience required. Prerequisite: SOCL 1010.

SOCL 4000. Sociology of Education (3)

The changing character of education in complex societies, its effect on individual and community behavior and development. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4030. Seminar in Research Design (4)

Theory construction and research application, development of research designs and application in the operating context of research projects. Prerequisite: SOCL 3030 or equivalent.

SOCL 4120. Sociology of Crime and Delinquency (3)

Theories of crime and delinquency; acquisition of criminal behavior patterns by individuals; distribution of crime among societal groups; description of crime patterns cross culturally. (Formerly 422 and 423) Prerequisite: SOCL 1010 or consent of instructor.
SOCL 4130. Sociology of Correction (4)

Theories of punishment and treatment of criminals and juvenile delinquents. Effects of probation, parole, and prison behavior modification programs. Study of social systems within correctional facilities. (Formerly 421) Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4140. Sociology of Law (3)

Sociological analysis of legal principles and rules, law and culture, social organization, social change, administration of justice. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4150. Sociology of Probation and Parole (3)

The uses of probation, parole, and other non-institutional programs in correctional systems. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4240. Social Deviance (3)

Theories of deviant behavior and relevant research. Study of the processes by which deviance occurs and the reactions of society. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4250. Criminal Justice II (3)

Analysis of public policy issues in administration of criminal justice; ideology of crime control and criminal justice reform. Prerequisite: SOCL 3250.

SOCL 4320. Sociology of Religion (3)

Sociological analysis of religious belief, behavior, and organization; classical and current theory and research. Prerequisite: Consent of instructor.

SOCL 4400. Political Sociology (3)

Sociological bases of political attitudes and behavior. Theory and research dealing with political socialization, voting behavior, legitimacy, and authority. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4410. Modern Sociological Theory II (3)

Major contributions to systematic sociological theory. Critical analysis of selected works from contemporary sociologists. Prerequisite: SOCL 3410.
SOCL 4520. Personality and Society (3)

Relations between personality, social structure, and culture. Primary emphasis on rules, socialization, aggression, affiliation, leadership, and norms. (Formerly 4510) Prerequisites: SOCL 1010 or consent of instructor.

SOCL 4600. Industrial Sociology (3)

Sociological analysis of industrial and other institutions of employment and work; work relations, labor unions, management policies, and industrialization as a world-wide phenomena. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4620. The American Consumer (3)

Overview of the social ramification of American consuming habits. Includes a brief historical sketch of consumerism. Primary concentration is on modern consumer practices and the phenomenon of consumerism. Course will include examination of local area merchandising, advertising, etc. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4700. Medical Sociology (3)

The social causes and consequences of illness in contemporary American society will be explored along with traditional and unique approaches to treating the sick. In addition, factors that prohibit equal access to medical care facilities will be examined. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4710. Sociology of Aging (3)

Examination of the dynamics and processes of aging; social and psychological aspects of aging, including attitudes toward the aged. Sociological, social-psychological, and biological theories of the aging process will be explored; social programs for the elderly will be examined. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4720. Sociology of Death (3)

Social and institutional factors involved in death, death-related behaviors, attitudes toward death and institutional influences on the death process. Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4800. Formal Organizations (3)

Analysis of modern bureaucratic organizations like hospitals, prisons, welfare, schools, etc. Examination of organizational effects on members, clients, and other organizations will be stressed. Prerequisite: Consent of instructor.
SOCL 4810. Urban Sociology (3)

The urban concept; origin and development of urban areas; effects of urbanization, social institutions, and social relations; research methods applied to urban life and form. (Formerly 321) Prerequisite: SOCL 1010 or consent of instructor.

SOCL 4850. The Community (3)

A sociological exploration of past and present theories surrounding the emergence and development of the community. Emphasis will be placed on the complexities of population, organization, technology, and environmental factors and their impact on individual and institutional adaptive mechanisms and approaches. (Formerly 4840) Prerequisite: SOCL 1010, 2030, or consent of instructor.

SOCL 4900. Seminar in the Sociology of Sociology (3)

Sociological analysis of sociology, its relationships to other behavioral and social sciences; consideration of problems and techniques of teaching sociology. Recommended for future graduate students or teachers. Prerequisites: Senior standing and consent of instructor.

SOCL 4940. Field Experience--Immersion Semester (6)

Supervised experience relevant to specific aspects of sociology. Intensive field placement in an appropriate agency or organization. Individual meetings, written reports. Prerequisite: Consent of instructor.

SOCL 4950. Selected Topics in Sociology (Topics to be specified in Class Schedule) (1-5)

Topics specified in class schedule. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

SOCL 4960. Senior Seminar (3)

Review and discussion of the contemporary issues facing sociology. Each student prepares an individual report. Prerequisite: Consent of instructor.

SOCL 4970. Selected Topics offered during Winter Term (4)
SOCL 4980. Individual Study (1-4)

For students capable of independent work at an advanced level. May be repeated up to 6 units. Prerequisite: Consent of instructor.

SOCL 5000. Seminar in Criminology (3)

Advanced study of crime causation and criminal classification; specialized group and individual treatment approaches. Prerequisite: Graduate standing.
Speech Communication

Randall C. Ruechelle, Ph.D., Professor, Chairman
James R. McDearmon, Ph.D., Professor
Max C. Norton, Ph.D., Professor
James H. Platt, Ph.D., Professor
William H. McFarland, Ph.D., Associate Professor
Jerry L. Weedon, Ph.D., Associate Professor
Susan E. Kellogg, M.S., Associate Professor
Richard S. Lucas, M.A., Associate Professor
Philip J. Owen, Ph.D., Assistant Professor

The Department of Speech Communication offers the degrees of Bachelor of Arts and Master of Arts, Speech. Concentrations in Communication Disorders and Organizational Communication are available in addition to the general speech curriculum in the B.A. program. The M.A. program provides concentration in Communication Disorders. Overall objectives of the program are to provide the student with opportunities to fulfill the following academic and professional needs:

1. To gain understanding of theories and processes of oral communication as a necessary part of one's education in the liberal arts.
2. To gain specialized knowledge and proficiencies in the communicative arts and sciences for entrance into such professional programs as public school teaching, special education, clinical speech pathology and audiology; and such professions as the ministry, law or business and industry.

The School of Behavioral and Social Sciences offers the degree Bachelor of Arts, Social Sciences, with an interdepartmental major in speech and any other two disciplines within the social sciences. (For further information, see Social Sciences.)

The degree Bachelor of Arts, Liberal Studies, is also offered with speech as an area of concentration. (For further information, see Liberal Studies.)

REQUIREMENTS FOR THE BACHELOR OF ARTS, SPEECH

Speech majors are to:

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 30 upper division units; of these, no more than 10 units of CR graded course work may apply toward the major.
4. Completion of a minor is not required.
## Speech Communication

### Degree Major in Speech

**Prerequisite to the Major**

- **SPCH 2010.** Oral Communication Processes, 4 units
- One lower division course in speech as approved by major adviser, 3 units

### The Major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SPCH 3000</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 3010</td>
<td>Language and Speech Development</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 3050</td>
<td>General Semantics</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 3121</td>
<td>Message Design (Clarification)</td>
<td>3</td>
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<tr>
<td>or SPCH 4100</td>
<td>Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 4000</td>
<td>Communication Theory</td>
<td>4</td>
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<tr>
<td></td>
<td>Upper division courses in speech as approved by</td>
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<td>major adviser</td>
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<td><strong>Total</strong></td>
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</table>

### Concentration in Communication Disorders within the Degree Major in Speech

Complete the prerequisites to the major, the requirements for the major, and the requirements for the concentration.

### The Concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SPCH 3000</td>
<td>Phonetics</td>
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<td>SPCH 3010</td>
<td>Language &amp; Speech Development</td>
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<tr>
<td>or SPCH 4100</td>
<td>Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 4000</td>
<td>Communication Theory</td>
<td>4</td>
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<tr>
<td></td>
<td><strong>Additional minimum of 14 units selected on advisement</strong></td>
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<tr>
<td></td>
<td>from the following courses in Communication Disorders:</td>
<td>14</td>
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<tr>
<td></td>
<td><strong>SPCH 3610.</strong> Introduction to Communication Disorders</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>SPCH 3640.</strong> Anatomy of Speech &amp; Hearing Mechanisms</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>SPCH 3701.</strong> Introduction to Clinical Methods, 1 unit</td>
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<tr>
<td></td>
<td><strong>SPCH 3810.</strong> Theory &amp; Practice of Hearing Measurement I</td>
<td>4 units</td>
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<tr>
<td></td>
<td><strong>SPCH 3820.</strong> Theory &amp; Practice of Hearing Measurement II</td>
<td>4 units</td>
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<tr>
<td></td>
<td><strong>SPCH 4600.</strong> Proseminar in Diagnostic Methods in Communication Disorders</td>
<td>3 units</td>
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<tr>
<td></td>
<td><strong>SPCH 4610.</strong> Proseminar in Communication Disorders I (Language &amp; Symbolization Disabilities)</td>
<td>3 units</td>
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</tbody>
</table>
Speech Communication

SPCH 4620. Proseminar in Communication Disorders II (Articulation), 3 units
SPCH 4700. Clinical Practice: Speech and Language Disorders, 1-2 units
SPCH 4710. Clinical Practice: Hearing Disorders, 1-2 units
SPCH 4810. Proseminar in Speech Reading & Aural Rehabilitation, 3 units

Total ........................................ 30

CONCENTRATION IN ORGANIZATIONAL COMMUNICATION WITHIN THE DEGREE MAJOR IN SPEECH

Complete the prerequisites to the major, the additional prerequisites to the elective concentration, the requirements for the major, and the requirements for the concentration.

Prerequisites to the concentration:

ECON 2500. Principles of Economics I, 4 units
ENGL 2050. Technical & Report Writing, 3 units
SOCL 2030. Research Methods, 4 units
SPCH 2010. Oral Communication Processes, 4 units

Additional recommended courses include:

BUS 2060. Business Law, 3 units
ECON 2510. Principles of Economics II, 4 units
SPCH 2101. Interpersonal & Small Group Methods, 3 units

The concentration:

BUS 3010. Organization & Environment, 4 units
or SOCL 4800. Formal Organizations, 3 units .... 3-4
PSCI 4300. Organization Theory ................. 4
SPCH 3050. General Semantics ................. 3
SPCH 3121. Message Design (Clarification) .... 3
SPCH 4000. Communication Theory .............. 4

Additional minimum of 12-13 units selected on advisement from the following .................. 12-13

BUS 3010. Organization & Environment, 4 units
BUS 3310. The Administrative Process, 3 units
PSCI 3300. Intro. to Public Administration, 3 units
PSYC 4820. Group Dynamics Seminar, 3 units
SOCL 3610. Small Groups Seminar, 3 units
SOCL 4600. Industrial Sociology, 3 units
SOCL 4800. Formal Organizations, 3 units
SPCH 3910. Speech Activities, 2 units
SPCH 4100. Group Communication, 3 units
Speech Communication

SPCH 4121. Message Design (Attitude Change) 3 units
SPCH 4140. Rhetorical Theory, 3 units
SPCH 4980. Individual Study, 1-4 units
Total ........................................ 30

DEGREE MINOR IN SPEECH

Eighteen units, to include at least 12 units in upper division.

Lower Division

SPCH 2000. Speech Communication, 3 units
or SPCH 2010. Oral Communication Processes, 4 units

One of the following as approved by minor adviser:
SPCH 2101. Interpersonal & Small Group Methods, 3 units
SPCH 2400. Oral Interpretation, 3 units

Upper Division

SPCH 5000. Phonetics, 3 units
SPCH 3050. General Semantics, 3 units
SPCH 3121. Message Design (Clarification), 3 units

Three units as approved by minor adviser.

LIBERAL STUDIES CONCENTRATION IN SPEECH

Twenty units, to include at least 15 upper division units

Core Requirements in Liberal Studies:

*SPCH 2000. Speech Communication, 3 units
or *SPCH 2010. Oral Communication Processes, 4 units
SPCH 3010. Language & Speech Development, 3 units ... 6-7

Courses in the Concentration:

Additional courses selected from the following on advisement ........................................ 13-14
SPCH 2101. Interpersonal & Small Group Methods, 3 units
*SPCH 2400. Oral Interpretation, 3 units
*SPCH 2910 or *3910. Speech Activities, 2 units

*Cannot apply toward the concentration if used to satisfy Liberal Studies Area D requirements.
**Speech Communication**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>*SPCH 3000.</td>
<td>Phonetics, 3 units</td>
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<tr>
<td>*SPCH 3020.</td>
<td>Applied Structural and Psycholinguistics, 4 units</td>
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<tr>
<td>*SPCH 3050.</td>
<td>General Semantics, 3 units</td>
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<tr>
<td>SPCH 3121.</td>
<td>Message Design (Clarification), 3 units</td>
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<tr>
<td>*SPCH 3400.</td>
<td>Oral Interpretation of Children's Literature, 3 units</td>
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<td>*SPCH 3410.</td>
<td>Oral Interpretation of Literature, 3 units</td>
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<tr>
<td>SPCH 4000.</td>
<td>Communication Theory, 4 units</td>
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<td>SPCH 4100.</td>
<td>Group Communication, 3 units</td>
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<tr>
<td>SPCH 4121.</td>
<td>Message Design (Attitude Change), 3 units</td>
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<tr>
<td>SPCH 4140.</td>
<td>Rhetorical Theory, 3 units</td>
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<tr>
<td>SPCH 4400.</td>
<td>Special Forms of Oral Interpretation, 4 units</td>
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<tr>
<td>Total</td>
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</tbody>
</table>

### TEACHING CREDENTIALS

Students interested in multiple subject or single subject credentials are referred to the Education section of the catalog for a description of teaching credential programs.

### COMMUNICATION HANDICAPPED: SPECIAL EDUCATION CREDENTIAL

Students planning careers as speech and hearing specialists should consult with the credential adviser in the Department of Speech Communication regarding program requirements for the credential. The program as administered by the Department of Speech Communication is coordinated with the Master of Arts program in Speech. Application to enter the Special Education Specialists Credential Program in Communication Handicapped Disorders should be made to the Secretary, Speech, Language and Hearing Center.

### MASTER OF ARTS IN SPEECH

The Department of Speech Communication offers the Master of Arts degree in Speech with a concentration in Communication Disorder.

Prerequisites for admission to the graduate program:

1. Completion of a bachelor's degree program from an accredited college or university.
2. Superior performance in the undergraduate major (3.0 GPA). Exceptions to be granted only upon petition to the department.
3. A minimum of 30 undergraduate semester units in speech

*Cannot apply toward the concentration if used to satisfy Liberal Studies Area D requirements.*

402
including core course requirements for completion of the B.A. degree with concentration in communication science and cognate fields, selected from the following:

SPCH 3000, 3010, 3020, 3050, 3610, 3640, 3810, 3820, 4000, 4600, 4610, 4620, 4810, PSYC 3350, or their equivalent.

Continuation in the Program:

The student is formally admitted to the program after completion of one semester of course work and completion of the specific prerequisites listed above. Continuation in the program is based on the maintenance of the following academic standards:

1. In accordance with college graduate policy, a 3.0 GPA must be maintained. Academic deficiency will result in disqualification from the program. Departmental review of candidate's eligibility is mandatory.
2. Students are expected to maintain continuous registration. Exception will be granted only on petition to the department.

REQUIREMENTS FOR THE DEGREE

The Degree of Master of Arts in Speech with concentration in Communication Disorders is awarded after completion of requirements listed under one of two plans.

PLAN I

1. Thirty semester units in graduate courses selected on advisement and to include research methodology (SPCH 5900) and thesis preparation (SPCH 5990). Graduate-level courses in speech within the 5000 series are applicable to the degree. Additional graduate-level courses in supportive fields (not to exceed 10 units) may be applicable upon advisement. These are to be completed within a seven-year period preceding the granting of the degree.
2. Satisfactory completion of an acceptable thesis.
3. Oral examination on thesis conducted by the thesis committee.

PLAN II

1. Thirty semester units in graduate courses selected on advisement, to include the following:
   a. SPCH 5900. Research Methods in Speech, 4 units
   b. SPCH 5700 and/or SPCH 5710. Six units of clinical internship featuring advanced clinical practicum in a selected setting such as a clinic, hospital or speech and hearing center
   c. SPCH 5950. Selected Topics in Speech, 3 units

The course requirements include design, implementation and completion of a special research or instruction
project under the direction of a faculty member. Each project will be reported in a paper of publishable quality.

2. Satisfactory completion of a comprehensive written examination covering graduate course content and clinical methodologies.

SPEECH COMMUNICATION SUB-AREAS

BASIC SYSTEMS AND PROCESSES: LANGUAGE AND COMMUNICATION

- SPCH 2010. Oral Communication Processes, 4 units
- SPCH 3000. Phonetics, 3 units
- SPCH 3010. Language & Speech Development, 3 units
- SPCH 3020. Applied Structural & Psycholinguistics, 4 units
- SPCH 3050. General Semantics, 3 units
- SPCH 4000. Communication Theory, 4 units
- SPCH 4950. Selected Topics in Speech, 1-5 units
- SPCH 4960. Introduction to Research Methods in Communication, 3 units
- SPCH 4980. Individual Study, 1-4 units

INTERPERSONAL COMMUNICATION

- SPCH 2000. Speech Communication, 3 units
- SPCH 2101. Interpersonal & Small Group Methods, 3 units
- SPCH 2910. Speech Activities, 2 units
- SPCH 2950. Selected Topics in Speech, 1-5 units
- SPCH 3121. Message Design (Clarification), 3 units
- SPCH 3910. Speech Activities, 2 units
- SPCH 3930. Intercollegiate Forensics, 1 unit
- SPCH 4100. Group Communication, 3 units
- SPCH 4121. Message Design (Attitude Change), 3 units
- SPCH 4140. Rhetorical Theory, 3 units

ORAL INTERPRETATION

- SPCH 2400. Oral Interpretation, 3 units
- SPCH 3400. Oral Interpretation of Children's Literature, 3 units
- SPCH 3410. Oral Interpretation of Literature, 3 units
- SPCH 4400. Special Forms of Oral Interpretation, 4 units

COMMUNICATION DISORDERS

- SPCH 3610. Introduction to Communication Disorders, 3 units
- SPCH 3640. Anatomy of Speech & Hearing Mechanisms, 3 units
- SPCH 3701. Introduction to Clinical Methods, 1 unit
- SPCH 3810. Theory & Practice of Hearing Measurement I, 4 units
- SPCH 3820. Theory & Practice of Hearing Measurement II, 4 units
- SPCH 4600. Proseminar in Diagnostic Methods in Communication Disorders, 3 units
SPCH 4610. Proseminar in Communication Disorders I (Language & Symbolization Disabilities), 3 units
SPCH 4620. Proseminar in Communication Disorders II (Articulation), 3 units
SPCH 4700. Clinical Practice: Speech & Language Disorders, 1-2 units
SPCH 4710. Clinical Practice: Hearing Disorders, 1-2 units
SPCH 4721. Practicum in Developmental Assessment, 3 units
SPCH 4810. Proseminar in Speech Reading and Aural Rehabilitation, 3 units

GRADUATE

SPCH 5610. Seminar in Dysfluency, 3 units
SPCH 5630. Seminar in Articulation Disorders, 3 units
SPCH 5650. Seminar in Voice Disorders, 3 units
SPCH 5660. Seminar in Disorders of Language Learning, 3 units
SPCH 5710. Advanced Clinical Practice: Hearing Disorders, 1-2 units
SPCH 5720. Internship in Clinical Supervision, 4 units
SPCH 5730. Clinical Practice in Communication Disorders in Public Schools, 6 units
SPCH 5800. Seminar: Audiological Research, 4 units
SPCH 5900. Research Methods in Speech, 4 units
SPCH 5950. Selected Topics in Speech, 1-5 units
SPCH 5980. Individual Study, 1-4 units
SPCH 5990. Thesis, 3-6 units

COURSE DESCRIPTIONS

Lower Division

SPCH 2000. Speech Communication (3)

Oral communication theory and practice in terms of the process, speaker, message, and audience. Emphasis on ethics, reasoning, evidence, listening, and criticism. Classroom activities include preparation, presentation, and criticism of speeches.

SPCH 2010. Oral Communication Processes (4)

Introduction to the field of human communication as developed in contemporary theory and research. Recurrent variables in verbal and non-verbal interaction are traced through the intrapersonal, interpersonal, and multipersonal systems. Required for speech communication majors.

SPCH 2101. Interpersonal and Small Group Methods (3)

The development of basic skills in interpersonal and small group communication. Areas of concern will include: discussion methodology and problem solving; information gathering, interviewing, conference management, leadership roles, and decision making. (Formerly 2100)
Speech Communication

SPCH 2400. Oral Interpretation (3)

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

SPCH 2910. Speech Activities (2)

Project course for involvement of the student in a variety of speech and/or instructionally related activities. Options include such projects as intercollegiate speech activities, participation in community projects, or in-depth studies of instructional programs in such settings as public schools, child development centers, or other public agencies. May be repeated for a total of 8 units. (Formerly 292) Prerequisite: One lower division speech course or consent of instructor.

SPCH 2950. Selected Topics in Speech (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of speech. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

SPCH 2970. Selected Topics during Winter Term (4)

Upper Division

SPCH 3000. Phonetics (3)

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 3010. Language and Speech Development (3)

Acquisition, learning, and development of normal language, grammar, and speech in children considered from neurological, psychological, and semantic standpoints; facts underlying normal speech and language development. (Formerly 360)

SPCH 3020. Applied Structural and Psycholinguistics (4)

Analysis of structure of English; methods of linguistic analysis of language samples using structural and transformational models. Survey of psycholinguistic theory including developmental transformations, bilingualism and language change. (Formerly 4010) Prerequisites: SPCH 3000 and 3010.

SPCH 3050. General Semantics (3)

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.

SPCH 3121. Message Design (Clarification) (3)

Theory and practice of message analysis and construction as they relate to the mediation of messages in the functioning of formal organizations. Emphasis upon analysis of models and development of methods for effecting clarity in informational media such as directives, contacts, product statements, technical reports, etc. (Formerly 3120) Prerequisite: SPCH 2010.

SPCH 3400. Oral Interpretation of Children's Literature (3)

Application of principles of oral interpretation to children's literature. Types of children's literature with emphasis on criteria for selection of literature for oral interpretation, storytelling as well as reading. Prerequisite: SPCH 2400 or consent of instructor.

SPCH 3410. Oral Interpretation of Literature (3)

Application of principles of oral interpretation to literary modes and genres with a special emphasis on verse. Prerequisite: SPCH 2400 or consent of instructor.

SPCH 3610. Introduction to Communication Disorders (3)

Specific methods used by speech and hearing clinicians in dealing with problems of oral communication. Systems of therapy, their theoretical rationale, and evaluatory results of these therapies. Organization and administering of speech and hearing programs, including clinical, private practice, hospital, and school programs. Specific applications of methods including direct contact with cases in clinical and school setting. Guided observations. Student is required to register for 1 unit of SPCH 3700. Prerequisite: Concurrent enrollment in SPCH 3000 or consent of instructor.

SPCH 3640. Anatomy of Speech and Hearing Mechanisms (3)

Anatomical and physiological characteristics of the normal speech and hearing mechanisms and their relationship to speech production.

SPCH 3701. Introduction to Clinical Methods (1)

Philosophy and practical application of basic methodology in speech diagnosis and therapy. One hour per week of observation in on-campus clinic also required. Not applicable for clinical practice credit. May be repeated for a total of two semester units. (Formerly 3700)
**Speech Communication**

SPCH 3810. Theory and Practice of Hearing Measurement I (4)

Psychoacoustic theories and practice measurement of hearing emphasizing puretone audiometric techniques; evaluation of audiometric results; development and administration of hearing conservation programs. Prerequisite: SPCH 3640 or equivalent. Students are required to register concurrently in SPCH 4710 for 1 unit.

SPCH 3820. Theory & Practice of Hearing Measurement II (4)

Continuation of SPCH 3810. The history and use of speech audiometry and other special tests in audiological assessment. Prerequisite: SPCH 3640, 3810, or equivalent. Students are required to register concurrently in SPCH 4710 for 1 unit.

SPCH 3910. Speech Activities (2)

Project course for involvement of the student in a variety of speech and/or instructionally related activities. Options include such projects as intercollegiate speech activities, participation in community projects, or in-depth studies of instructional programs in such settings as public schools, child development centers, or other public agencies. (Formerly 392) Prerequisite: One lower division speech course or consent of instructor. May be repeated for a total of 8 units.

SPCH 3930. Intercollegiate Forensics (1)

Participation in intercollegiate speech competition. Competition offered in debate, reader's theatre, oral interpretation, and individual speaking events. A total of 10 units may be earned in any combination of SPCH 2910, 3910, and 3930. (Formerly 292, 392) Prerequisite: SPCH 2910, 3910, or consent of instructor. Concurrent enrollment in SPCH 2910 or 3910 recommended but not required.

SPCH 4000. Communication Theory (4)

Communication models; natural and formal language systems; contributions of theories of information, semantics, psycholinguistics, cybernetics, and general systems to the study of communication. Prerequisite: Senior standing or consent of instructor.

SPCH 4100. Group Communication (3)

Studies in small group theory and research. Participation in informal task groups devoted to such concepts as cooperation and competition, power, roles, status, and leadership as these relate to the variables of communication and productivity. Prerequisite: Senior standing or consent of instructor.
SPCH 4121. Message Design (Attitude Change) (3)

Principles of message construction derived from studies of motivation. Context, receiver, and media factors will be related to the development of message strategies, such as sidedness, the aspects of order, types of appeals, evocative language and inoculation. (Formerly 4120) Prerequisite: SPCH 2010.

SPCH 4140. Rhetorical Theory (3)

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

SPCH 4400. Special Forms of Oral Interpretation (4)

Special forms of oral interpretation including theatrical presentations of prose and verse literature. (Formerly 342) Prerequisite: SPCH 2400 or consent of instructor.

SPCH 4600. Proseminar in Diagnostic Methods in Communication Disorders (3)


SPCH 4610. Proseminar in Communication Disorders I (Language and Symbolization Disabilities) (3)

Aphasia in children and adults; delayed language not related to cerebral dysfunction; the language of the psychotic child; deprivation effects on language. Prerequisite: Consent of instructor. Concurrent enrollment in SPCH 4700 or 5700 for 1 unit is required.

SPCH 4620. Proseminar in Communication Disorders II (Articulation) (3)

Continuation of SPCH 4610. Disorders of articulation, voice and fluency, cerebral palsy, and oro-facial abnormalities including cleft palate. Prerequisite: Consent of instructor. Concurrent enrollment in SPCH 4700 or 5700 for 1 unit is required.
SPCH 4700. Clinical Practice: Speech & Language Disorders (1-2)

Supervised work with representative cases in articulation, stuttering, aphasia, voice disorders, delayed speech and language, cleft palate, cerebral palsy. Diagnostic and therapy assignments. May be repeated for a total of 6 units. Minimum of 15 clinical contact hours required for each unit of credit earned. One hour of staffing per week is required. Prerequisites: SPCH 3000, 3010, 3610, 3640.

SPCH 4710. Clinical Practice: Hearing Disorders (1-2)

Supervised work with representative cases in disorders of hearing. Administering of tests for assessment of specific pathologies of the hearing mechanism. Procedures for development of speech and language for children and adults with hearing disorders. Internship in both on-campus and off-campus settings: 15 clinical contact hours required for each unit of credit earned. One hour of staffing per week is required. May be repeated for a total of 6 units. Prerequisite: SPCH 3810.

SPCH 4721. Practicum in Developmental Assessment (3)

Procedures and techniques for assessing perceptual motor, social, and speech and language development in children. (Formerly 4720) Prerequisite: SPCH 3010 or consent of instructor.

SPCH 4730. Field Experience in Management of Child Development Programs (2)

Supervised work with preschool children in developmental centers; planning and presenting developmental programs and preschool learning experiences. Three hours practicum per week required for each unit. May be repeated for a total of 4 units. Prerequisites: SPCH 4721 and consent of instructor.

SPCH 4810. Proseminar in Speech Reading & Aural Rehabilitation (3)

The study and analysis of various methods for developing communication skills in children and adults with impaired hearing. The principles and methods involved in the use of residual hearing in the hearing impaired. Students are required to register concurrently in SPCH 4710 for 1 unit. (Formerly 481, 482) Prerequisites: SPCH 3640 and 3810.

SPCH 4950. Selected Topics in Speech (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of oral communication. Topics may vary each term, thus different topics may be taken for credit. Prerequisites: Upper division standing and consent of instructor.

410
SPCH 4960. Introduction to Research Methods in Communication (3)

Synthesis of philosophies of oral communication represented by analysis of research. Prerequisites: Senior standing and consent of instructor.

SPCH 4970. Selected Topics offered during Winter Term (4)

SPCH 4980. Individual Study (1-4)

For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

Graduate

SPCH 5610. Seminar in Dysfluency (3)

Stuttering, cluttering, other disorders of fluency. Theory diagnosis, and treatment. Prerequisite: Consent of instructor. Concurrent enrollment in SPCH 5700 for 1 unit is required.

SPCH 5630. Seminar in Articulation Disorders (3)

Articulation disorders of functional, structural, and neurological etiology; dysarthria and apraxia; cleft palate articulation, theory, diagnosis, and treatment. Prerequisite: Consent of instructor. Concurrent enrollment in SPCH 5700 for 1 unit is required.

SPCH 5650. Seminar in Voice Disorders (3)

Voice disorders of functional, structural, and neurological etiology; cleft palate voice. Theory, diagnosis, and treatment. Prerequisite: Consent of instructor. Concurrent enrollment in SPCH 4700 for 1 unit is required.

SPCH 5660. Seminar in Disorders of Language Learning (3)

Studies of the nature, diagnosis, and treatment of language and language learning disabilities. Development disorders of language; aphasia in children and adults; autistic and schizophrenic language; language of the mentally handicapped. Prerequisite: Consent of instructor. Concurrent enrollment in SPCH 4700 for 1 unit is required.

SPCH 5700. Advanced Clinical Practice: Speech & Language Disorders (1-2)

Supervised work with representative advanced cases in stuttering, aphasia, and voice disorders. Fifteen contact hours are required for each unit of credit earned. May be repeated for a total of 6 units. One hour of staffing per week is required. Prerequisite: Consent of instructor.
SPCH 5710. Advanced Clinical Practice: Hearing Disorders (1-2)

Supervised work with representative cases of hearing disorders. Includes auditory training, lipreading, language development for the hard of hearing. Fifteen contact hours required for each unit earned. May be repeated for a total of 6 units. One hour staffing per week is required. Prerequisite: Consent of instructor.

SPCH 5720. Internship in Clinical Supervision (4)

Practicum in supervision of undergraduate students enrolled in clinical practicum. Each student will supervise four beginning undergraduate students. A weekly seminar will be held to discuss problems in clinical supervision.

SPCH 5730. Clinical Practice in Communication Disorders in Public Schools (6)

Supervised screening, identification of communication disorders in school setting, record keeping, supervised therapy of communication disorders in public school setting. Twenty contact hours required for each unit of credit earned. (Formerly 641, 642) Prerequisites: Acceptance in credential program in speech, completion of or concurrent enrollment in SPCH 4700, 4710, 5700, 5710.

SPCH 5800. Seminar: Audiological Research (4)

Review and discussion of current and past audiological research findings. Use and practice in operating psychoacoustic and physiological-acoustic equipment through a series of research projects. Prerequisites: SPCH 3810 and 3820 or consent of instructor.

SPCH 5900. Research Methods in Speech (4)

The purpose and methods of research in the field of speech; trends and developments with emphasis upon the development of methods of studying existing problems and discovering new ones in the field of speech. Prerequisite: Consent of instructor.

SPCH 5950. Selected Topics in Speech (Topics to be specified in Class Schedule) (1-5)

Development of a selected branch of oral communication. Topics may vary each term, thus different topics may be taken for credit. Prerequisite: Graduate standing.

SPCH 5970. Selected Topics offered during Winter Term (4)
SPCH 5980. Individual Study (1-4)

For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

SPCH 5990. Thesis Research (3-6)

Thesis research. Prerequisites: Satisfactory completion of SPCH 5900 or its equivalent, and special permission.
Technology and Change
A Degree Minor

John P. Rasmussen, Ph.D., Director

Technology and Change is a multidisciplinary degree minor especially designed for the non-science student. The program is concerned with the social impact of science and technology on the world today and the world of the future. This minor will be useful to the student planning a career in education or administration as well as to all those seeking a broad understanding of the implications of technological and social change.

DEGREE MINOR IN TECHNOLOGY AND CHANGE

Eighteen units, of which at least 10 must be upper division.

Required courses:

MDIS 3500. The Technological Society, 3 units
MDIS 4960. Seminar in Technology and Society, 3 units

Elective courses:

In consultation with and upon approval of the minor adviser, the student is to select at least 12 units of supporting courses which contribute to his or her ability to understand the cultural implications of science and technology. At least 2 of these courses are to be selected from the Natural Sciences.

Courses useful in fulfilling elective requirements include, but are not limited to, the following:

ASTR 2100. Descriptive Astronomy, 3 units
BIOL 2650. Environmental Biology, 2 units
MATH 1200. Computers and Society, 3 units
ANTH 4200. Applied Anthropology and Social Change, 4 units
ENGL 4053. Science Fiction, 3 units
GEOG 3020. Human Ecology, 3 units
HIST 3640. Contemporary America, 3 units
SOCL 3200. Social Change, 3 units

Up to 6 units of the required 12 units of supporting course work in the minor may be taken by means of courses numbered 4980, Individual Study. Such course work must clearly focus on the topic of technology and change and must be approved by the minor adviser. Where appropriate, Winter Term courses are also applicable.
MDIS 3500. The Technological Society (3)

An interdisciplinary analysis of the social and ecological crises caused by the exponential growth of science and technology. The issues—population, energy, alienation, pollution, etc.—are examined on the global, national, and local levels.

MDIS 4960. Seminar in Technology and Society (3)

Reading, papers, and discussion on the societal, ecological, and philosophical issues raised by contemporary science and technology. Prerequisite: MDIS 3500 or consent of instructor.
Urban and Community Studies

A Concentration Within the Social Sciences Major

Melvin H. Aamodt, Ph.D., Director

The interdisciplinary Urban and Community Studies Concentration is designed as an undergraduate course of study for students who wish to investigate the major problems which result from the growing complexity of our urban environment. Environmental, behavioral, and administrative aspects of urban areas are considered as well as techniques useful in studying urban problems.

Students who pursue this program obtain background leading towards positions in a variety of governmental or voluntary agencies as well as preparation for possible graduate training in such professional programs as public administration, urban or regional planning, social welfare, etc.

Internships in Governmental Agencies. There is an Intern Program in the Department of Political Science. Students in the Urban and Community Studies concentration who wish to be considered for participation in that program should contact the director in the Political Science Department concerning requirements for admission.

REQUIREMENTS FOR BACHELOR OF ARTS, SOCIAL SCIENCE, WITH A CONCENTRATION IN URBAN AND COMMUNITY STUDIES

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete prerequisites to the major.
3. Complete the major of not less than 32 upper division units as outlined below and approved by the adviser. No more than 8 units of Winter Term CR graded course work may apply toward the degree.
4. Completion of a minor is not required.

Prerequisites:
1. SOCL 1010. Introduction to Sociology, 3 units
2. PSCI 1200. American Government, 3 units
3. ECON 2500. Principles of Economics I, 4 units
4. Complete one of the following research methods courses:
   MATH 2000. Introduction to Computers, 3 units
   SOCL 2030. Research Methods, 4 units
   PSCI 3100. Scope & Methods of Political Science, 4 units

Recommended courses:
MATH 1600. Statistics, 4 units
SOCL 3030. Research Techniques & Analytic Procedures, 4 units
GEOG 3700. Cartographic Presentation, 3 units
COURSES IN THE MAJOR

1. URBAN ENVIRONMENT

Three courses dealing with the cultural, economic, spatial, and physical aspects of the urban environment:

ECON 4600. Urban Economics, 3 units
GEOG 4350. Urban Geography, 4 units
HIST 3640. Contemporary America, 3 units

2. URBAN BEHAVIOR

Two courses concerned with urban behavior:

SOCL 4810. Urban Sociology, 3 units
SOCL 4850. The Community, 3 units

3. URBAN ADMINISTRATION AND POLITICS

Two courses in the areas of urban administration and politics:

PSCI 3300. Introduction to Public Administration, 3 units
PSCI 4330. Urban Politics, 4 units

4. INTERDISCIPLINARY SEMINAR

As arranged in consultation with an adviser, complete 3 units of:

SSCI 4960. Social Sciences Interdisciplinary Seminar, 3 units

5. Completion of the remainder of the required 32 units from the list below. Additional work beyond the minimum requirements for the concentration is highly recommended.

ECON 4540. Public Finance & Fiscal Policy, 3 units
ECON 4550. Taxation & the American Economy, 3 units
GEOG 3510. Geography of North America, 4 units
GEOG 3700. Cartographic Presentation, 3 units
GEOG 4300. Geography of Resource Planning, 3 units
HIST 4680. American Intellectual & Social History, 3 units
PSCI 3230. Political Parties and Interest Groups, 4 units
PSCI 3260. Urban Justice, 3 units
PSCI 3330. California Politics, 3 units
PSCI 4300. Organization Theory, 4 units
PSCI 4320. Minority Politics, 3 units
*PSCI 4340. Public Administration Internship, 3 units
SOCL 3030. Research Techniques and Analytic Procedures, 4 units
SOCL 3150. The Family, 3 units
SOCL 3200. Social Change, 3 units
SOCL 3310. Social Stratification, 3 units
SOCL 3420. Population and Demography, 4 units
SOCL 3720. Social Welfare Services, 4 units

*This course is available only to students who have been admitted to the Internship Program of the Political Science Department.
Vocational Education

The College has developed a Bachelor of Vocational Education degree program which it anticipates offering in Fall 1976. Final approval for the program must be obtained from The California State University and Colleges and the California Post-Secondary Education Commission before the College can admit students to the program.

PROPOSED BACHELOR OF VOCATIONAL EDUCATION DEGREE

This degree program is made possible through legislation enacted in 1943 (known as the Swan Bill). The intent is to provide a baccalaureate degree for vocational teachers who can gain subject matter competence only through occupational or professional experience. The occupational experience credit (1 to 40 units) is evaluated by the Board of Examiners for Vocational Teachers' and counts towards the Vocational Arts major and are called the student's "Swan Act units." The degree can be awarded only to students who possess the Designated Subjects Credential.

The applicant must have substantial experience in the trade or occupation in which he is teaching (usually 3 years' experience in journeyman status following the appropriate learning experience for the trade).

The applicant must have a minimum of 1,620 hours of teaching experience in an approved vocational class, or 1,000 hours teaching experience in an approved trade extension class. "Approved" classes are those in conformity with the California State Plan for Vocational Education, Part I, Administrative Provisions.

The Bachelor of Vocational Education degree with a major in Vocational Arts proposed for California State College, Stanislaus consists of the segments described below:

VOCATIONAL PROGRAM:

1. Major in Vocational Arts\(^{(a)}\) .................. 24
2. Designated Subjects Credential\(^{(b)}\) ........ 9-15 33-39

LIBERAL ARTS PROGRAM:

3. General Education\(^{(c)}\) ......................... 40
4. Degree Minor\(^{(d)}\) .......................... 18-25
5. Electives\(^{(e)}\) ............................... 20-33 85-91

Total ....................................... 124

419
(a) The degree program requires a minimum of 24 upper division units in the major. All or a major portion of this credit will be awarded for work experience by the Board of Examiners for Vocational Teachers upon application by the student ("Swan Bill" evaluation). If the student fails to obtain 24 units of credit through the "Swan" evaluation, the remaining units in the Vocational Arts major are to be taken in regular Cal State Stanislaus courses or appropriate extension courses, related to the student's specific interests, selected with the approval of the vocational education adviser. Courses in Education may not be used in this portion of the degree program. In cases where the amount of credit awarded by the Board of Examiners for Vocational Teachers appears to be minimal, a student may be required to enroll in additional lower division vocational arts courses in a community college.

(b) A student must have obtained the Designated Subjects Credential before enrolling in the BVE degree program.

(c) This portion of the program may be completed through an appropriate selection of courses at CSCS or a community college.

(d) Degree Minor: Students must select a minor from the minors listed in the CSCS catalog. Courses to meet the requirements for a minor must be arranged with a minor adviser in the department offering the minor. The typical minor at CSCS requires 18-25 units.

(e) Included as electives are courses transferred from another college which are not used elsewhere in the degree program. Additional courses required to meet the minimum requirement for graduation (124 units) must be chosen in consultation with the vocational education adviser from among courses and programs throughout the College.
The General Faculty

OLSON, Walter, 1975
President; Professor of Geography
B.A. 1947, University of Washington; M.A. 1949, University of Puget Sound; Ph.D. 1956, Syracuse University

AAMODT, Melvin H., 1970
Professor of Anthropology and Geography
B.A. 1958, Brigham Young University; M.A. 1960, University of Wisconsin; Ph.D. 1968, Indiana University

AHANOTU, Austin Metumara, 1970
Associate Professor of History
B.A. 1967, Berea College; M.A. 1968, Ph.D. 1971, University of California, Los Angeles

AIMY, John, 1971
Associate Professor of Chemistry
B.A. 1964, Johns Hopkins University; Ph.D. 1969, University of California, Los Angeles

ANDERSON, Robert K., 1971
Associate Professor of Spanish
B.A. 1966, Brigham Young University; Ph.D. 1973, Saint Louis University

ARMSTRONG, Corinne P., 1972
Assistant Professor of Anthropology
B.A. 1964, M.A., 1965, University of California, Los Angeles

AUBERT, Edward J., 1961
Director of Admissions and Relations with Schools
B.S. 1956, University of San Francisco; M.B.A. 1961, University of California, Berkeley

BALBO, Frank C., 1964
Business Manager
B.S. 1937, University of California, Berkeley

BARRETT, Thomas P., 1961
Professor of Business Administration
B.A. 1954, Northeastern University; M.A. 1958, Michigan State University

BEAMISH, Jerome J., 1964
Director of Testing, Tutorial Services, Disabled Students
B.A. 1957, Sir George Williams University; M.A. 1958, Ph.D. 1962, Columbia University
Faculty

BENNETT, Agnes L., 1961
Head Catalog Librarian
A.B. 1951, Luther College; A.M.L.S. 1952, University of Michigan

BERKOBEN, Lawrence D., 1963
Professor of English
B.A. 1957, Pennsylvania State University; M.A. 1958, Ohio University; Ph.D. 1963, University of Washington

BOBLITT, William E., 1973
Visiting Lecturer in Psychology
B.A. 1962, University of Denver; M.A. 1965, Ph.D. 1967, University of Florida

BOWEN, James C., 1970
Associate Professor of Physical Education
B.A. 1965, University of Northern Iowa; M.A. 1969, Ph.D. 1973, University of Iowa

BOWERS, Donald W., 1971
Associate Professor of Sociology

BOWERS, Ida I., 1972
Assistant Professor of Geography
B.S. 1961, Central Michigan University; M.A. 1965, Ph.D. 1973, University of Hawaii

BREWER, Joseph E., 1967
Professor of English
B.A. 1947, University of Akron; M.A. 1948, University of Cincinnati; Ph.D. 1954, Case Western Reserve University

BROWN, Judith A., 1969
Associate Professor of Biological Sciences
B.A. 1966, Whittier College; M.S. 1969, Ph.D. 1973, Northwestern University

BRUGGMAN, Joseph E., 1960
Professor of Music
B.A. 1941, San Jose State University; M.A. 1947, Ed.D. 1949, Columbia University

BYRD, James E., 1974
Assistant Professor of Chemistry
B.S. 1966, Roosevelt University, Chicago; Ph.D. 1971, University of Chicago

Camarata, Martin L., 1964
Professor of Art
B.S. 1956, State University of New York at Buffalo; M.A. 1957, New York University
CANBY, Joel, 1970
Professor of Anthropology
B.A. 1941, Colorado College; A.M. 1948, Ph.D. 1950, Harvard University

CARROLL, John E., 1971
Associate Professor of English
B.A. 1965, M.A. 1967, Ph.D. 1970, University of New Mexico

CARSON, Carol P., 1972
Assistant Professor of Anthropology
B.A. 1966, University of California, Davis; M.A. 1969, University of California, Berkeley

CASWELL, John E., 1960
Professor of History
B.A. 1934, M.A. 1937, University of Oregon; Ph.D. 1952, Stanford University

CHANG, Shang-Wang, 1969
Associate Professor of Mathematics
B.E. (Engineering) 1947, Tohoku University, Japan; M.S. 1961, Kansas State Teachers College; Ph.D. 1969, Iowa State University

CHAPIN, Wayne R., 1970
Professor of Business Administration
B.B.A. 1958, M.B.A. 1959, University of Texas at Austin; D.B.A. 1965, University of Southern California; C.P.A. 1958, State of Texas

CHILDRESS, Patricia L., 1975
Instructor in Physical Education
B.S. 1974, M.S. 1975, California Polytechnic State University, San Luis Obispo

CHOW, Tai-Low, 1969
Associate Professor of Physics
B.S. 1958, National Taiwan University; M.S. 1963, Case Western Reserve University; Ph.D. 1970, University of Rochester

CHRISTOFFERSON, Jay P., 1970
Associate Professor of Biological Sciences
B.S. 1961, University of Utah; M.S. 1965, Ph.D., 1970, University of Hawaii

COLE, James C., 1964
Professor of Education
A.B. 1947, M.A. 1948, Stanford University; Ed.D. 1956, Teachers College, Columbia University
Faculty

*CONANT, Richard D., 1969
Associate Professor of Physical Education
A.B. 1955, Occidental College; M.S. 1956, University of California, Los Angeles; Ph.D. 1969, University of Oregon

CORBIN, Joseph W., 1968
Associate Vice President for Academic Services
Professor of Education
B.S. 1960, Geneva College; M.Ed. 1961, University of Pittsburgh; Ed.D. 1967, University of the Pacific

COULTER, R. Scott, Jr., 1970
Associate Professor of Music
B.M. 1949, M.M. 1952, University of the Pacific

CRAWFORD, Paula J., 1973
Reference Librarian
B.A. 1972, University of the Pacific; M.S.L.S. 1973, University of Southern California

CREDELL, Edward R., 1967
Professor of Education
A.B. 1949, California State University, Fresno; M.S. 1956, M.Ed. 1960, University of Southern California; Ph.D. 1967, Northwestern University

CRIST, William D., 1969
Associate Professor of Economics
B.S. 1960, M.A. 1962, Ph.D. 1972, University of Nebraska

CROWLEY, Gerard J., 1960
Executive Dean
Professor of Management
A.B. 1942, Loyola College; Ed.M. 1951, Boston University

DEAN, Britten, 1967
Associate Professor of History

deTADLOCK, Gisela D., 1973
Assistant Professor of Spanish
B.A. 1967, San Francisco College for Women

DINSE, Noble T., 1970
Associate Professor of Drama

*Sabbatical Leave, Spring 1977
DONINI, Antonio O., 1966
Professor of Sociology
A.B. 1941, Institute of Classical Literature and Humanities;
M.A. 1945, Saint Michael College, Buenos Aires, Argentina;
M.S.Sc. 1957, Ph.D. 1960, Institute of Social Sciences,
Gregorian University, Rome, Italy

DORAZ, Walter E., 1975
Assistant Professor of Sociology
B.A. 1970, Southeastern Massachusetts University; M.A. 1972,
Ph.D. 1975, Washington State University

DURBIN, Thomas E., 1970
Associate Professor of Anthropology
B.A. 1964, University of California, Berkeley; M.A. 1966,
Ph.D. 1970, University of California, Los Angeles

DYCHE, Chester W., 1970
Academic Coordinator of Computer Services
Associate Professor of Mathematics
B.A. 1952, Linfield College; M.A. 1956, Oregon State University

ELLIOTT, Lee A., 1972
Associate Professor of Psychology
B.A. 1959, Quincy College; M.Ed. 1967, Xavier University;
Ph.D. 1970, University of Cincinnati

ELLIS, Stephen R., 1975
Visiting Lecturer in Psychology
A.B. 1969, University of California, Berkeley; M.A. 1971,
Ph.D. 1974, McGill University

ENTIN, Kenneth, 1971
Associate Professor of Political Science
B.A. 1966, City College of New York; M.A. 1967, Ph.D. 1971,
New York University

ERICKSON, Edward C., 1970
Assistant Professor of Economics
B.A. 1965, M.A. 1966, University of California, Riverside;
Ph.D. 1970, University of Southern California

FARNSWORTH, Richard B., 1967
Director of Continuing Education
B.A. 1935, University of Montana; M.A. 1943, Stanford
University

FARRAR, Charles R., 1960
Professor of Education
B.A. 1949, M.A. 1950, Humboldt State University;
Ed.D., 1963, Stanford University

425
Faculty

FELDMAN, Louis A., 1968
Associate Professor of Mathematics
B.S. 1963, University of Michigan; M.A. 1965, Ph.D. 1969, University of California, Berkeley

FOX, Phillis T., 1974
Assistant Professor of Sociology
B.A. 1966, University of Chicago; M.A. 1969, Ph.D. 1974, Northwestern University

FULLER, Michael C., 1971
Assistant Professor of French
B.A. 1964, University of Idaho; M.A. 1966, Ph.D. 1971, University of Washington

GALLEGOS, Consuelo L., 1975
Visiting Lecturer in Education
B.A. 1973, California State College, Stanislaus

GALLOWAY, R. Dean, 1960
Director of the Library
A.B. 1947, Humboldt State University; M.S. 1950, University of Southern California

GENTRY, Thomas A., 1973
Assistant Professor of Psychology
B.A. 1957, M.A. 1958, Colorado College; Ph.D. 1973, Brandeis University

GHIGLIERI, Sylvia M., 1961
Professor of Music
B.M. 1954, Dominican College; Diploma 1954, Music Academy of the West at Santa Barbara; Diploma 1955, Conservatoire de la Musique at Fontainebleau, France; M.M. 1960, University of the Pacific

GIVENTER, Lawrence L., 1975
Assistant Professor of Political Science
B.S.M.E. 1967, New Jersey Institute of Technology; M.S. 1968, Massachusetts Institute of Technology

GOLDSMITH, W. Mack, 1966
Professor of Psychology
A.B. 1957, Ripon College; Ph.D. 1966, Cornell University

GOODWIN, James M., 1968
Associate Professor of Physics
B.S. 1958, Pennsylvania State University; M.S. 1964, Ph.D. 1968, University of Washington

GORA, William A., 1973
Assistant Professor of Music
B.M. 1969, University of Miami; M.Ed. 1971, University of Florida
Faculty

GORELNIK, Sally J., 1975
Assistant Professor of Sociology
B.A. 1968, California State University, Los Angeles;
M.A. 1971, Ph.D. 1974, University of Minnesota

GOTELLI, David M., 1970
Associate Professor of Biological Sciences
B.A. 1964, University of California, Berkeley;
Ph.D. 1969, University of Washington

GRANT, Curtis R., 1966
Vice President for Academic Affairs
Professor of History
A.B. 1960, Stanford University; M.A. 1961, University of California, Berkeley; Ph.D. 1968, Stanford University

GRAVES, Jack A., 1969
Professor of Education

GRILLOS, Steve J., 1965
Professor of Botany
B.S. 1951, University of Denver; M.S. 1952, University of Wyoming; Ph.D. 1956, Oregon State University

HABASHI, Zaki I., 1965
Professor of Physical Education

HACKWELL, Glenn A., 1961
Professor of Biological Sciences
B.S. 1957, M.S. 1958, Brigham Young University; Ph.D. 1967, Oregon State University; Registered Professional Entomologist, 1972, Entomological Society of America

HAMILTON, Hobart G., Jr., 1968
Associate Vice President for Academic Affairs
Associate Professor of Chemistry
B.S. 1961, University of Texas, El Paso; M.S. 1963, Ph.D. 1967, New Mexico State University

HANNY, James K., 1966
Professor of Physical Education
B.A. 1949, M.A. 1957, University of the Pacific;
Ed.D. 1972, Laurence University

*Sabbatical Leave, Spring 1977
Focully

HANSON, James C., 1960
Professor of Biological Sciences
B.A. 1955, M.A. 1957, University of the Pacific;
Ph.D. 1967, Oregon State University

HARDER, Paul O., 1973
Dean, School of Arts and Humanities
Professor of Music
B.M. 1944, Butler University; M.M. 1945, Eastman School of Music; Ph.D. 1959, University of Iowa

HAYES, William H., 1971
Professor of Philosophy
B.A. 1947, Columbia College, Columbia University; M.A. 1952, Ph.D. 1967, University of California, Berkeley

HEINTZ, Lawrence L., 1975
Visiting Lecturer in Philosophy
B.A. 1967, Washington State University; M.A. 1973, Ph.D. 1975, University of California, Santa Barbara

HINKSON, Jimmy W., 1970
Professor of Chemistry
B.S. 1956, M.S. 1958, Brigham Young University; Ph.D. 1962, Indiana University

HOLDER, Franklin B., 1965
Professor of History
B.A. 1949, M.A. 1951, Ph.D. 1962, University of California, Berkeley

HOLT, Lewis E., 1971
Associate Professor of Psychology
B.A. 1960, M.A. 1967, Ph.D. 1969, University of California, Berkeley

HOOD, Bruce D., 1966
Associate Professor of Drama
B.F.A. 1959, University of New Mexico; M.A. 1966, San Francisco State University

HUGHES, Steven W., 1971
Associate Professor of Political Science
B.A. 1966, Whittier College; Ph.D., 1971, University of North Carolina

JAMES, Ralph L., 1970
Associate Professor of Mathematics
B.S. 1963, University of Washington; M.S. 1965, Ph.D. 1970, Oregon State University
JAVAHER, James N., 1961
Professor of Mathematics
L.L.B. 1946, University of Tehran; A.B. 1950, San Jose State University; M.A. 1952, University of California, Berkeley;
B.S. 1954, Stanford University; Doctorat d'Université, Faculte des Sciences, 1960, University of Paris, Sorbonne

JENKINS, David O., 1970
Professor of Business Administration
B.B.A. 1952, Loyola University of Los Angeles; M.A. 1955, The Catholic University of America; C.P.A. 1958, State of California; D.B.A. 1963, University of Southern California

JENSEN, James P., 1961
Professor of English
B.A. 1953, M.A. 1957, Ph.D. 1964, University of Washington

JOHNSON, Lola V., 1960
Professor of English
B.A. 1956, M.A. 1959, University of the Pacific

JONES, Richard V., 1966
Professor of Education
B.A. 1956, M.A. 1956, Stanford University;
Ed.D. 1966, University of California, Berkeley

KELLOGG, Susan E., 1969
Associate Professor of Speech Pathology and Audiology
B.S. 1964, Syracuse University; M.S. 1965, University of Wisconsin, Madison

KOTTKE, Frederick E., 1963
Professor of Economics
B.S. 1952, Pepperdine College; M.A. 1957, Ph.D. 1960, University of Southern California

LAMBRIGHT, Robert W., 1968
Professor of Marketing

LEE, Yin-Po, 1970
Associate Professor of Economics
B.A. 1955, National Taiwan University; Ph.D. 1970, Southern Illinois University

LEO, Louis J., 1969
Dean for Administration
B.A. 1966, University of Michigan; J.D. 1969, University of Michigan Law School
LEVERING, Richard A., 1973
Assistant Professor of Drama
A.B. 1961, M.A. 1968, California State University, Long Beach

LODEWYCK, Ronald W., 1973
Associate Professor of Business Administration
B.S. 1965, Illinois Institute of Technology; M.S. 1966,
Ph.D. 1973, Northwestern University

LUCAS, Richard S., 1969
Associate Professor of Speech
B.A. 1966, M.A. 1968, California State University, Sacramento

LUEVANO, Richard L., 1972
Assistant Professor of Ethnic Studies
B.A. 1970, California State College, Stanislaus; M.A. 1971,
San Jose State University

MACK, Gerhard G., 1970
Associate Professor of German
A.B. 1965, California State University, Los Angeles; M.A. 1967,
Ph.D. 1971, University of Southern California

*MAGNELIA, Paul F., 1966
Professor of Political Science
B.A. 1955, Washington University; M.A. 1960, University of
The Americas; Ph.D. 1967, University of Geneva

MARIA, Narendra L., 1968
Professor of Mathematics
B.A. 1948, M.A. 1949, Punjab University, India; Ph.D. 1968,
University of California, Berkeley

MAYOL, Perpetuo S., 1968
Associate Professor of Biological Sciences
B.S.A. 1957, University of the Philippines; M.S. 1965,
Oklahoma State University; Ph.D. 1968, Purdue University

McCLINTOCK, William F., 1963
Credentials Coordinator and Director of Academic Advising
Professor of Education
A.B. 1937, Occidental College; M.A. 1949, Ph.D. 1957,
Claremont Graduate School

McDEARMON, James R., 1970
Professor of Speech Pathology
B.A. 1940, University of California, Berkeley; M.A. 1950,
University of the Pacific; Ph.D. 1960, University of Denver

*Sabbatical Leave, Fall 1976.
McDERMOTT, Douglas W., 1970
Professor of Drama
A.B. 1958, Pomona College; M.A. 1960, University of North Carolina; Ph.D. 1963, University of Iowa

McFARLAND, William H., 1974
Associate Professor of Audiology
B.A. 1965, M.A. 1966, San Francisco State University;
Ph.D. 1969, University of Washington

MENDES, Richard G., 1970
Associate Professor of Political Science

MOLLEMA, Peter C., Jr., 1975
Head of Technical Services
B.A. 1959, Carleton College; M.A. 1965, University of New Hampshire; M.A.L.S. 1965, University of Wisconsin, Madison

MORGAN-PAAP, Cynthia L., 1974
Assistant Professor of Psychology
A.B. 1968, Temple University; M.A. 1971, Ph.D. 1974,
University of Wisconsin, Madison

MORICONI, R. J., 1968
Professor of Education
A.B. 1955, M.A. 1957, Stanford University; Ed.D. 1967,
University of Florida

MORRIS, William M., 1971
Associate Professor of Physical Education
A.B. 1962, M.A. 1964, California State University, Chico;
Ed.D. 1969, University of Utah

MOYNIHAN, Michael H., 1974
Assistant Professor of Sociology
B.A. 1966, M.A. 1969, Ph.D. 1976, University of Colorado at Boulder

MUEDEKING, George D., 1972
Assistant Professor of Sociology
B.A. 1965, Pacific Lutheran University; M.A. 1968,
Ph.D. 1972, Washington State University

NAPTON, Lewis K., 1971
Professor of Anthropology
B.S. 1959, Montana State University; M.A. 1965, University of Montana; Ph.D. 1970, University of California, Berkeley
NELSON, Wayne E., 1970
Associate Professor of Physical Education
B.S. 1951, M.S. 1957, University of Wisconsin;
Ed.D. 1970, University of New Mexico

NICKERSON, Melvin R., 1966
Coordinator of Audio Visual Services
A.B. 1956, A.M. 1960, University of the Pacific;
Ph.D. 1966, University of Michigan

NORDAHL, Thomas E., 1975
Visiting Lecturer in Mathematics
B.S. 1970, M.A. 1972, Ph.D. 1974,
University of California, Davis

NORTON, Max C., 1961
Professor of Speech
B.A. 1951, M.A. 1955, University of the Pacific; Ph.D. 1962,
University of Denver

NOVACK, Joseph A., 1971
Associate Professor of Sociology
B.S. 1964, Wisconsin State University; M.A. 1969, Ph.D. 1971,
Louisiana State University

NOVAK, Gary D., 1973
Assistant Professor of Psychology
A.B. 1968, Rutgers University; M.A. 1970, Temple University;
Ph.D. 1974, State University of New York at Stony Brook

O'DELL, Jerry C., 1973
Assistant Professor of English
B.A. 1964, Centenary College; A.M. 1966, Ph.D. 1972, Stanford
University

OPPENHEIM, Samuel A., 1971
Associate Professor of History
B.A. 1962, University of Arizona; A.M. 1964, Harvard
University; Ph.D. 1972, Indiana University

OWEN, Philip J., 1975
Assistant Professor of Speech Communication
A.B. 1964, A.M. 1965, Ph.D. 1970, University of
Illinois, Urbana

OZUNA, William, 1973
Assistant Director of Educational Opportunity Program
B.A. 1970, California State College, Stanislaus

PANDELL, Alexander J., 1970
Associate Professor of Chemistry
B.S. 1964, San Francisco State University; Ph.D. 1968,
Stanford University
Faculty

PARKER, J. Carlyle, 1963
Assistant Director of the Library
Head of Public Services
A.B. 1957, Brigham Young University; M.L.S. 1958, University of California, Berkeley

PARTON, Ralf, 1963
Professor of Art
Diploma 1953, Albright Art School; B.S. 1954, State University of New York at Buffalo; M.A. 1955, Columbia University

PATTERSON, Richard G., 1972
Director of Educational Opportunity Program
B.S. 1971, University of Nevada, Reno

PERONA, Michael J., 1973
Associate Professor of Chemistry
B.A. 1964, Ph.D. 1968, University of California, Santa Barbara

PETERS, Priscilla S., 1972
Catalog Librarian
A.B. 1971, Stanford University; M.L.S. 1972, University of California, Berkeley

PHILLIPS, William H., 1974
Assistant Professor of English
B.A. 1962, Purdue University; M.A. 1966, Rutgers University; Ph.D. 1972, Indiana University

PIERCE, Wayne S., 1971
Associate Professor of Biological Sciences
A.B. 1964, Humboldt State University; M.S. 1967, Ph.D. 1971, Washington State University

PIPHO, Armin P., 1971
Associate Professor of Physical Education
B.A. 1960, Luther College; M.A. 1963, University of Iowa; Ph.D. 1971, University of Oregon

PISKOTI, James, 1969
Associate Professor of Fine Art
B.S. 1967, University of Michigan; M.F.A. 1969, Yale University

PITMAN, Leon S., 1969
Associate Professor of Geography
B.S. 1965, Brigham Young University; M.A. 1966, University of Oklahoma; Ph.D. 1973, Louisiana State University

PLATT, James H., 1966
Professor of Speech Pathology and Audiology
B.A. 1940, Bowling Green State University; M.A. 1946, State University of Iowa; Ph.D. 1954, University of Denver

*Leave of Absence 10/18/75-10/17/76.
Faculty

PLOEGER, R. John, 1974
Visiting Lecturer in Art

QUINLEY, C. W., Jr., 1962
Registrar
A.B. 1950, San Jose State University

RAO, Cherukuri U., 1970
Professor of Business Administration
B.Com. 1954, M.Com. 1956, Andhra University; M.B.A. 1966, Atlanta University; Ph.D. 1972, University of North Carolina

RASMUSSEN, John Peter, 1962
Professor of History
B.A. 1955, California State University, Fresno; M.A. 1959, Ph.D. 1962, Stanford University

REDD, Linda J., 1974
Reference Librarian
B.A. 1973, M.L.S. 1974, University of California, Berkeley

RENNING, H. Dieter, 1970
Professor of Economics
Dr. rer. pol. (Doctor of Economics) 1961, University of Freiburg, Germany

REUBEN, Paul P., 1971
Associate Professor of English
B.A. 1961, Patna College, India; M.A. 1963, Patna University, India; Ph.D. 1970, Bowling Green State University

ROE, Pamela, 1971
Assistant Professor of Biological Sciences
B.A. 1965, University of Texas; M.S. 1967, Ph.D. 1971, University of Washington

*RUECHELLE, Randall C., 1964
Professor of Speech
A.B. 1942, M.A. 1944, University of Chicago; Ph.D. 1953, University of Southern California

RUSHDOONY, Haig A., 1961
Professor of Education
A.B. 1949, M.A. 1953, San Francisco State University; Ed.D. 1961, University of California, Berkeley

SANDERSON, Douglas R., 1975
Athletic Director
B.A. 1967, University of California, Riverside; M.A. 1969, California State University, Chico

*Sabbatical Leave Fall 1976
SANTOS, Robert L., 1970
Bibliographer
B.S. 1969, California State College, Stanislaus; M.A. 1970, University of Southern California

SCHUETZE, Carl J., 1970
Visiting Lecturer in Business Administration
B.S. 1958, M.S. 1960, University of Illinois, Urbana

*SCHWARCZ, Ervin H., 1967
Professor of Physics
B.S. 1945, Ohio State University; M.S. 1948, Ph.D. 1955, University of Michigan

SEBAN, Martha M., 1971
Assistant Professor of Physical Education
B.S. 1967, M.S. 1971, California State University, Hayward

SEBOK, Richard F., 1970
Director of Student Services
B.A. 1960, Millikin University; M.Ed. 1965, University of Illinois; Ed.D. 1974, University of the Pacific

SETTERA, George E., Jr., 1972
Assistant Professor of English
B.S. 1964, Portland State University; Ph.D. 1971, University of Oregon

SHAW, Gary C., 1969
Associate Professor of Political Science
B.A. 1966, Utah State University; M.A. 1967, Ph.D. 1970, Michigan State University

SHERMAN, Stanley E., 1969
Associate Professor of Psychology
B.A. 1956, University of California, Berkeley; B.D. 1959, Berkeley Baptist Divinity School; M.A. 1966, San Jose State University; Ph.D. 1969, University of Washington; Certified Clinical Psychologist, 1970, State of California

SHRABLE, V. Kenneth, 1970
Dean, School of Behavioral and Social Sciences
Professor of Psychology

*Sabbatical Leave, Fall 1976.
Faculty

SMITH, Priscilla R., 1968
Professor of Education
A.B. 1941, John R. Stetson University; M.Ed. 1955, National College of Education; Ed.D. 1963, University of Denver

SMURR, J. W., 1967
Professor of History
B.A. 1950, M.A. 1951, University of Montana; Ph.D. 1960, Indiana University

STENZEL, David Bentheim, 1961
Professor of History
Diploma 1950, University of Vienna; B.S. 1951, Georgetown University; M.A. 1954, Ph.D. 1957, University of California, Berkeley

SWAIN, Lorna M., 1961
Professor of Education
A.B. 1937, University of California, Berkeley; M.A. 1954, Humboldt State University; Ed.D. 1960, Stanford University

TAYLOR, Douglas H., 1969
Professor of English
B.A. 1960, Whitman College; M.A. 1963, University of Washington; Ph.D. 1967, University of California, Davis

THOMPSON, Evan M., 1965
Dean, School of Natural Sciences
Professor of Chemistry
B.A. 1960, Ph.D. 1964, Brigham Young University

THOMPSON, Lloyd R., 1968
Associate Professor of Education
B.S. 1952, University of Minnesota; M.A. 1957, California State University, Long Beach; M.Ed. 1959, Ed.D. 1966, University of Southern California

TORDOFF, Walter, III, 1970
Associate Professor of Biological Sciences
B.A. 1965, University of Massachusetts; M.S. 1967, Ph.D. 1971, Colorado State University

TRIPI, Frank J., 1971
Associate Professor of Sociology
B.A. 1961, M.A. 1963, California State University, Los Angeles; Ph.D. 1971, University of California, Los Angeles

TSACLE, Alfred G., 1973
Assistant Professor of Business Administration
B.S. 1968, University of San Francisco; M.A. 1971, University of California, Berkeley
TUMAN, Vladimir S., 1965
Professor of Physics
B.S. 1948, Birmingham University of England; D.I.C. 1949, Imperial College of London; Ph.D. 1964, Stanford University

UNRUH, Gary L., 1972
Associate Professor of Music
B.A. 1963, M.A. 1965, Occidental College; D.M.A. 1973, University of Illinois

VANDERMOLEN, Ronald J., 1969
Associate Professor of History
B.A. 1961, Calvin College; M.A. 1962, DePaul University; Ph.D. 1969, Michigan State University

WADE, Jere D., 1969
Associate Professor of Drama
B.A. 1958, M.A. 1966, University of California, Davis; Ph.D. 1972, University of Oregon

WAKEFIELD, James A., Jr., 1974
Associate Professor of Psychology
B.A. 1970, University of Texas, Austin; M.A. 1973, Ph.D. 1973, University of Houston

WASHINGTON, Delo E., 1972
Assistant Professor of Ethnic Studies
B.A. 1957, Spelman College; M.S.W. 1959, Atlanta University

WATLING, Thomas C., 1967
Director of Career Planning and Placement
B.A. 1949, M.Ed. 1955, Drury College; Ph.D. 1967, University of Denver

WEAR, James H., 1975
Visiting Lecturer in Drama
B.F.A. 1973, University of Texas

WEEDON, Jerry L., 1971
Associate Professor of Speech
B.A. 1958, California State University, Long Beach; M.A. 1963, Ph.D. 1969, University of California, Los Angeles

WILLIAMS, Daniel F., 1971
Associate Professor of Biological Sciences
B.A. 1966, Central Washington State College; M.S. 1968, Ph.D. 1971, University of New Mexico

WILLIAMS, Jack W., 1969
Associate Professor of English
B.A. 1962, M.A. 1966, University of Colorado

* Sabbatical Leave, Spring 1977
WISLER, Gene C., 1963
Professor of Music
A.B. 1947, San Jose State University; M.A. 1950, University of Minnesota; Ed.D. 1956, University of Oregon

*WOLD, John T., 1970
Associate Professor of Political Science
B.A. 1965, California Lutheran College; M.A. 1968, Ph.D. 1972, Johns Hopkins University

WOOLDRIDGE, Kent E., 1974
Visiting Lecturer in Mathematics
B.S. 1964, University of Chicago
Ph.D. 1975, University of Illinois, Urbana-Champaign

WORSLEY, Alice F., 1973
Assistant Professor of English
B.A. 1961, College of Notre Dame, Belmont; M.A. 1969, Ph.D. 1973, University of California, Santa Cruz

YASUI, Roy Y., 1971
Professor of Education
B.Ed. 1964, University of Alberta; M.S. 1965, Ph.D. 1967, University of Oregon

YOCKEY, Jamie M., 1975
Assistant Professor of Psychology
B.S. 1971, University of Pittsburgh; M.A. 1972, Ph.D. 1975, University of Florida

YOUNG, Kenneth G., 1961
Professor of Accounting
C.P.A. 1944, University of Illinois; B.S.C. 1948, Loyola University; C.P.A. 1948, State of California; M.B.A. 1951, University of California, Berkeley

*Sabbatical Leave, Spring 1977
PART-TIME FACULTY

BLAKELEY, Philip B., 1973
Visiting Lecturer in Psychology
B.A. 1969, California State College, Stanislaus
M.A. 1971, Ph.D. 1973, University of Nebraska, Lincoln

BRUNN, Charles K., 1966
Visiting Lecturer in Business Law
B.S. 1954, University of San Francisco; L.L.D. 1957, University of San Francisco School of Law

DEHNING, Margaret J., 1974
Visiting Lecturer in Music
B.A. 1966, California State University, Los Angeles

DIEKMAN, Jane E., 1971
Visiting Lecturer in Education
B.S. 1958, University of North Dakota, Grand Forks

DOWN, Janice C., 1975
Visiting Lecturer in Music
B.A. 1953, M.A. 1973, San Jose State University

DROLLINGER, Louise G., 1975
Visiting Lecturer in Anthropology
B.A. 1953, Mexico City College, Mexico City
M.A. 1965, University of Hawaii, Honolulu

DUDLEY, Anna Carol, 1974
Visiting Lecturer in Music
A.B. 1952, Oberlin College; M.A. 1956, Oberlin College Conservatory of Music

FRANE, Robert E., 1974
Visiting Lecturer in Business Administration
B.A. 1957, M.A. 1959, University of California, Berkeley

FRICKEY, Judith Ann, 1975
Visiting Lecturer in Business Administration
B.S. 1964, University of South Dakota, Vermillion
C.P.A. 1976, State of California

HESS, Monroe H., Jr., 1972
Visiting Lecturer in Business Administration
A.B. 1950, University of the Pacific
M.B.A. 1952, Harvard University

HOYEN, Glenn R., 1975
Visiting Lecturer in Physical Education
Faculty

IWASHI, Kenneth K., 1971
Visiting Lecturer in Business Administration
B.A. 1969, University of California, Berkeley
M.B.A. 1971, University of Oregon

McARTOR, Michael J., 1975
Visiting Lecturer in Music
B.A. 1971, University of Northern Colorado

NAVARES, Desmond D., 1975
Visiting Lecturer in Mathematics
B.A. 1970, California State University, Sacramento
M.S. 1972, California State University, Hayward

POLIS, John M., 1976
Visiting Lecturer in Business Administration
B.S. 1952, L.L.B. 1954, J.D. 1968, Drake University

PRESCOTT, Richard, 1970
Visiting Lecturer in Education
A.B. 1938, University of Chicago
M.A. 1958, University of the Pacific

SHORT, Kathleen J., 1976
Visiting Lecturer in Business Administration
B.A. 1962, California State University, Fresno

SLIGER, Stephanie Ann, 1974
Visiting Lecturer in Physical Education
B.A. 1971, California State University, Fresno

SPEARS, Alice B., 1975
Visiting Lecturer in Music
B.M. 1962, University of the Pacific
Artist Diploma in Voice, 1966, The Curtis Institute of Music

TORRENS, William J., 1972
Visiting Lecturer in Business Administration
A.B. 1951, Rutgers University

ULRICH, Jack P., 1976
Visiting Lecturer in Business Administration
B.A. 1964, California State College, Stanislaus
C.P.A. 1967, State of California

WESTERBERG, Stephen C., 1975
Visiting Lecturer in Biological Sciences
B.S. 1967, M.S. 1969, Ph.D. 1971, University of Utah

WOODWARD, M. Shirley, 1976
Visiting Lecturer in Music
B.M. 1953, M.M. 1954, University of Texas, Austin
Diplomas, 1962, 1963, Mozarteum Academy, Salzburg, Austria
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