1982

Course Catalog 1982-83

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BULLETIN
1982-83

CALIFORNIA · STATE · COLLEGE
SAN · BERNARDINO
This Bulletin represents the College’s course descriptions and requirements at the undergraduate and graduate levels. California State College, San Bernardino reserves the right to revise Bulletin provisions in accordance with official actions of the Board of Trustees of the California State University and Colleges and other governing bodies. Students are advised to consult the appropriate department, school or office for current information. Supplementary bulletins contain additional information about graduate and summer programs. The 1982-83 Bulletin may be purchased at the College Bookstore, California State College, San Bernardino, 5500 State College Parkway, San Bernardino, CA 92407.

Inquiries about admission to the college should be directed to Associate Dean of Admissions, (714) 887-7311; requests for general academic information and about graduate programs may go to the Dean of Academic Planning, (714) 887-7521, California State College, San Bernardino, 5500 State College Parkway, San Bernardino, CA 92407.

BULLETIN
(USPS 817-800)
Vol. 12 No. 1 June 1982
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San Bernardino, 5500 State College Parkway,
San Bernardino, CA 92407.
Second class postage paid at San Bernardino, California

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CALENDAR
1982–83

FALL TERM

Sept. 13  Beginning of the academic year
Sept. 14–17  Orientation of new students
Sept. 16–17  Advising
Sept. 20–21  Registration
Sept. 23  Classes begin; late registration begins
Sept. 29  Late registration ends
Oct. 13  Last day to drop classes
Oct. 14  Last day to file graduation check for March graduation; see page 71

Nov. 18–19,
22–24  Advising
Nov. 25–27  Thanksgiving holiday
Dec. 3  Last day of classes
Dec. 6–9  Final examinations
Dec. 25  Christmas holiday

WINTER TERM

Jan. 1  New Year’s Day holiday
Jan. 3–4  Registration
Jan. 6  Classes begin; late registration begins
Jan. 12  Late registration ends
Jan. 26  Last day to drop classes
Jan. 27  Last day to file graduation check for June, July and August graduation; see page 71

Feb. 28–March 4  Advising
March 16  Last day of classes
March 17–18,
21–22  Final examinations

1982

SEPTEMBER

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1983

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Calendar

SPRING TERM
March 30-31  Registration
April 4     Classes begin; late registration begins
April 8     Late registration ends
April 22    Last day to drop classes
April 25    Last day to file graduation check for December graduation; see page 71
May 30     Memorial Day holiday
June 13    Last day of classes
June 14-17  Final examinations
June 18    Commencement

SUMMER SESSIONS
June 21    Registration
June 22    Classes begin for regular session
July 4      Independence Day holiday
July 27    Classes end for regular session
July 28    Registration for post session
Aug. 1     Classes begin for post session
Aug. 19    Classes end for post session

FALL TERM 1983
Sept. 12    Beginning of the academic year
Sept. 13–16 Orientation of new students
Sept. 15–16 Advising
Sept. 19–20 Registration
Sept. 22    Classes begin; late registration begins
Sept. 28    Late registration ends
Oct. 12     Last day to drop classes
Oct. 13     Last day to file graduation check for March graduation; see page 71
Nov. 17–18, 21–23  Advising
Nov. 24–26  Thanksgiving holiday
Dec. 2     Last day of classes
Dec. 5–8   Final examinations
Dec. 26    Christmas holiday

APRIL

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JUNE

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AUGUST

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SEPTEMBER

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A more detailed calendar of academic dates and deadlines is published each quarter in the class schedule.
THE CALIFORNIA STATE UNIVERSITY

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act in 1960. In 1972 the system became The California State University and Colleges and in 1982 it became The California State 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 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, 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 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.

The CSU offers more than 1,500 bachelor's and master's degree programs in some 200 subject areas. Nearly 500 of these programs are offered so that students can complete all upper-division and graduate requirements by part-time late afternoon and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California.

The Consortium of the CSU draws on the resources of the 19 campuses to offer regional and statewide off-campus degree, certificate and credential programs to individuals who find it difficult or impossible to attend classes on a campus. In addition to Consortium programs, individual campuses also offer external degree programs.

Enrollments in fall 1981 totaled more than 313,000 students, who were taught by a faculty of 18,000. Last year the system awarded more than 50 percent of the bachelor's degrees and 30 percent of the master's degrees granted in California. More than 800,000 persons have been graduated from the 19 campuses since 1960.
The California State University
California State College, Bakersfield
9001 Stockdale Highway
Bakersfield, California 93309
Dr. Jacob P. Frankel, President
(805) 833-2011

California State University, Chico
1st and Normal Streets
Chico, California 95929
Dr. Robin S. Wilson, President
(916) 895-5011

California State University, Dominguez Hills
Carson, California 90747
Dr. Donald R. Gerth, President
(213) 516-3300

California State University, Fresno
Shaw and Cedar Avenues
Fresno, California 93740
Dr. Harold M. Haak, President
(209) 294-4240

California State University, Fullerton
Fullerton, California 92634
Dr. Jewell Plummer Cobb, President
(714) 773-2011

California State University, Hayward
Hayward, California 94542
Dr. Ellis E. McCune, President
(415) 881-3000

Humboldt State University
Arcata, California 95521
Dr. Alistair W. McCrone, President
(707) 826-3011

California State University, Long Beach
1250 Bellflower Boulevard
Long Beach, California 90840
Dr. Stephen Horn, President
(213) 498-4111

California State University, Los Angeles
5151 State University Drive
Los Angeles, California 90032
Dr. James M. Rosser, President
(213) 224-0111

California State University, Northridge
18111 Nordhoff Street
Northridge, California 91330
Dr. James W. Cleary, President
(213) 885-1200

California State Polytechnic University, Pomona
3801 West Temple Avenue
Pomona, California 91768
Dr. Hugh O. LaBounty, Jr., President
(714) 598-4592

California State University, Sacramento
6000 J Street
Sacramento, California 95819
Dr. W. Lloyd Johns, President
(916) 454-6011

California State College, San Bernardino
5500 State College Parkway
San Bernardino, California 92407
Dr. John M. Pfau, President
(714) 887-7201

San Diego State University
5300 Campanile Drive
San Diego, California 92182
Dr. Thomas B. Day, President
(714) 265-5000

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

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

San Jose State University
Washington Square
San Jose, California 95192
Dr. Gail Fullerton, President
(408) 277-2000

Sonoma State University
1801 East Cotati Avenue
Rohnert Park, California 94928
Dr. Peter Diamandopoulos, President
(707) 664-2880

California State College, Stanislaus
800 Monte Vista Avenue
Turlock, California 95380
Dr. A. Walter Olson, President
(209) 667-3122
TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY

EX OFFICIO TRUSTEES

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

Mike Curb
Lieutenant Governor of California
State Capitol, Sacramento 95814

Willie L. Brown, Jr.
Speaker of the Assembly
State Capitol, Sacramento 95814

Wilson C. Riles
Superintendent of Public Instruction
721 Capitol Mall, Sacramento 95814

Dr. W. Ann Reynolds
Chancellor of The California State University
400 Golden Shore, Long Beach 90802

APPOINTED TRUSTEES

Appointments, which expire March 1, are for a term of eight years, except for a student trustee and an alumni trustee who serve for two years. Names are listed in order of appointment to board.

Charles Luckman, 1982
9200 Sunset Boulevard, Los Angeles 90069

Dr. Claudia H. Hampton, 1982
450 N. Grand, Room G-353
Los Angeles 90012

Willie J. Stennis, 1983
3947 Landmark, Culver City 90230

Dr. Juan Gomez-Quinones, 1984
Professor, History Department, University of California, Los Angeles
405 Hilgard Avenue, Los Angeles 90024

John F. O’Connell, 1983
Bechtel Corp., P.O. Box 3965
San Francisco 94119

Ms. Blanche C. Bersch, 1984
415 N. Camden Dr.
Beverly Hills 90210

Michael R. Peevey, 1985
215 Market St., Suite 930
San Francisco 94105

John F. Crowley, 1985
3068 16th Street, San Francisco 94103

Ms. Wallace Albertson, 1986
1618 Sunset Plaza Dr., Los Angeles 90069

Donald G. Livingston, 1987
550 S. Flower St., Los Angeles 90077

Ms. Celia I. Ballesteros, 1987
110 West C St., Suite 2202, San Diego 92101

Mrs. Lynne Myers, 1988
514 Doheny Rd., Beverly Hills 90210

Dr. August Coppola, 1988
1040 North Las Palmas, Los Angeles 90038

George M. Marcus, 1989
2626 Hanover St.,
Palo Alto 94304

Ms. Jenny Oropeza, 1983
3121 Corto Place, Apt. 7,
Long Beach 90803

Blaine Quick, 1983
1010 Second Ave., Suite 2307,
San Diego 92101
OFFICERS OF THE TRUSTEES

President: Governor Brown
Chairperson: Mr. O'Connell
Vice Chairperson: Mr. Peevey
Secretary-Treasurer: Dr. Reynolds

OFFICE OF THE CHANCELLOR
THE CALIFORNIA STATE UNIVERSITY
400 Golden Shore, Long Beach 90802
(213) 590-5506

Chancellor: Dr. W. Ann Reynolds

Executive Vice Chancellor: Harry Harmon
Vice Chancellor, Academic Affairs: Dr. Alex C. Sherriffs

Vice Chancellor, Business Affairs: D. Dale Hanner
Acting Vice Chancellor, Faculty and Staff Affairs: Dr. Robert Tyndall

Vice Chancellor and General Counsel: Mayer Chapman
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<td>Robert J. Bierschbach</td>
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<td>Eliseo G. Ruiz</td>
<td>Redlands</td>
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<td>Mrs. Luella M. Cohen (Theodore M.)</td>
<td>San Bernardino</td>
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<td>Mrs. Regina Garza (Florentino)</td>
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<td>Harold C. Harris, Jr.</td>
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<td>Dannie M. Hayes</td>
<td>Riverside</td>
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<td>William Honeysett</td>
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<td>Robert J. Mitton</td>
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<td>Verne F. Potter</td>
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CALIFORNIA STATE COLLEGE, SAN BERNARDINO

ADMINISTRATIVE OFFICERS

President: to be announced

Vice President for Academic Affairs: Gerald M. Scherba, Ph.D.
  Associate Vice President for Academic Affairs: J. Cordell Robinson, Ph.D.
Dean of Academic Administration: James D. Thomas, Ph.D.
  Associate Dean of Academic Administration: Richard T. Ackley, Ph.D.
  Assistant Dean of Academic Administration: Florence Weiser, M.A.
Manager, Computer Center: Frank Slaton, M.S.
Dean of Academic Planning: Ralph H. Petrucci, Ph.D.
  Associate Dean of Academic Planning: Catherine C. Gannon, Ph.D.
  Associate Dean of Academic Planning for Graduate Studies: Lee H. Kalbus, Ph.D.
Dean of Continuing Education: Lee Porter, Ed.D.
Dean, School of Administration: H. Arthur Hoverland, Ph.D.
Dean, School of Education: Ernest F. Garcia, Ph.D.
Dean, School of Humanities: Irving H. Buchen, Ph.D.
Dean, School of Natural Sciences: James D. Crum, Ph.D.
Dean, School of Social and Behavioral Sciences: Ward M. McAfee, Ph.D.
Director of Library: Arthur Nelson, M.A.L.S.
  Head, Library Operations: Marty Bloomberg, M.A.
  Head, External Operations: John Tibbals, M.S.L.S.
Director of Audiovisual Services: Robert A. Senour, Ph.D.
Director of Institutional Research: Robert A. Schwabe, Ph.D.

Vice President for Administration:
  Director of Plant Operations: James H. Urata, M.A.
  Director of Public Affairs: Edna Steinman, B.J.

Dean of Students: Kenton L. Monroe, Ph.D.
Associate Dean, Admissions and Records: H. Stephen Prouty, M.S.
  Admissions Officer: Cheryl Weese, M.B.A.
  Registrar: Jo Ann Von Wald, B.A.
  Coordinator, Veterans Services: Raymond E. Sayre, M.A.
Associate Dean, Counseling Services: John M. Hatton, Ph.D.
International Student Advisor: Donald C. Woods, Ph.D.
Director, Placement: Paul Esposito, Ed.D.
Relations with Schools Officer: Michael M. Rose, M.A.
Director, Activities: Jeanne Hogenson, M.A.
Associate Dean, Educational Support Services: Tom M. Rivera, Ed.D.
Director, Services to Students with Disabilities: L. Theron Pace, Ph.D.
Director, Educational Opportunity Program Supportive Services and Acting Associate Dean: Walter Hawkins, M.S.W.
Director, Learning Center: Dianne Irwin, Ph.D.
Coordinator, Student Affirmative Action: Laura Gomez de Chamorro, M.A.
Associate Dean, Student Services: Doyle J. Stansel, M.A.
Director/Teacher, Children’s Center: Pamela I. Dortch, B.S.
Director, Financial Aid: Theodore Krug, M.A.
Director, Housing: Craig Henderson, Ph.D.
Director, Student Health Service: Ross Ballard, M.D.
Director, Department of Public Safety: Arthur A. Butler, B.A.

Business Manager: Leonard B. Farwell, M.B.A.
Accounting Officer: Donald E. Sapronetti, B.A.
Budget Officer: Jim G. Martinez, B.A.
Personnel Officer: Sandra Lyn Jensen, M.A.
Support Services Officer: Janice L. Lemmond, B.A.
College Commons
SAN BERNARDINO:
LOCATION AND HISTORY

The city of San Bernardino is situated at the foot of the San Bernardino Mountains, which form the northeastern boundary of the San Gabriel Valley. The valley's western terminus, 60 miles away, is the Los Angeles basin and the beaches of the Pacific Ocean.

In earlier times the San Bernardino area was the home of Serrano, Luiseno and Cahuilla Indians. The first pioneers from Mexico settled in the San Gabriel Valley in the 1770's. Mission San Gabriel was founded by Fr. Junipero Serra in 1771, ten years before pueblo Los Angeles was established. The mission built a fortified asistencia near modern San Bernardino in 1819, but this was abandoned in 1834 when newly independent Mexico secularized the missions.

In 1842 the Lugo family purchased the 37,000-acre San Bernardino Valley. A group of Mormon colonists came to the valley in 1851, purchased the Lugo Rancho and built a stockade near the present county courthouse. A village developed around the stockade and this, coupled with California statehood, led to the establishment of San Bernardino County in 1853 and the incorporation of the city of San Bernardino in 1854. Connection to the transcontinental railroad in 1885 recognized the valley's importance and insured its future growth and prosperity.

Inland Southern California

Historic San Bernardino Valley is part of inland southern California, an area encompassing all of San Bernardino and Riverside counties. The College is within the Riverside-San Bernardino-Ontario metropolitan area and serves as well more distant locations in the two counties—the Colorado River communities of Blythe and Needles; the high desert area including Victorville and Barstow; the low desert, Coachella Valley region including Palm Springs and Indio; the mountain communities of Big Bear, Lake Arrowhead and Idyllwild; the Hemet Valley, including Hemet, San Jacinto and Perris.
Now into its second decade, California State College, San Bernardino continues its development in new directions.

The College opened in 1965, offering six degree programs to approximately 300 students and focusing on the liberal arts. Currently the curriculum has been expanded to 36 baccalaureate degree programs, 13 teaching credential fields and various options within eight master's degree programs. Current enrollment exceeds 4,900.

While continuing to emphasize the liberal arts, the College is now implementing a number of career-oriented programs, both at the undergraduate and the graduate levels.

**Academic Plan**

The College has adopted an academic calendar consisting of three 11-week terms which differs from the conventional quarter system in that full-time students normally enroll in only three courses per term. Under the three/three plan, each course normally meets four hours per week (laboratory and studio courses are exceptions). The student thus is in class 12 hours per week or the equivalent, instead of the traditional 15. Such reduction of classroom time is balanced by increased assignment of written work and greater emphasis on independent study and independent laboratory work. As a result, student effort is still expected to be a minimum of 15 hours per week per class. This academic program is designed to afford the student the opportunity to carry on studies in depth and in breadth, to develop abilities to work independently and to achieve intellectual growth.

**Class Size**

A distinctive feature of the San Bernardino plan is that the maximum enrollment in most classes (nearly 90 percent) is limited to 20. This small class size increases the possibilities for discussion and for student-faculty contacts both within and outside the classroom.

To maintain the 20-student class as the norm requires that a small proportion of courses be offered in a large-lecture format (maximum enrollment of 250) or in an intermediate size (enrollment of 50 to 100).

Among lower-division general education courses, those in the basic skills area, in foreign language and in philosophy are offered mostly through small classes, while those in other areas employ intermediate or large-lecture classes. Upper-division general education courses are also offered in the large-lecture format. Each department utilizes intermediate size classes for a small number of required
or elective courses, but the majority of departmental offerings are in small classes. The typical laboratory section has a maximum enrollment of 24, sometimes less.

Faculty Office Hours

In addition to meeting with students during designated class hours, faculty members hold regularly scheduled office hours, which are posted outside their offices. A student who is unable to see a faculty member during class or the posted office hours may arrange an appointment by contacting the appropriate department office.

Accreditation

The California State College, San Bernardino is accredited by the Western Association of Schools and Colleges, the official accrediting body for institutions of higher learning in the West. The teaching credential programs of the College are approved by the California State Board of Education. The Chemistry Department is accredited by the American Chemical Society. The baccalaureate program in nursing is accredited by the National League for Nursing.

Phi Kappa Phi

The College has an active chapter of the national honor society of Phi Kappa Phi, whose purpose is the recognition and encouragement of superior scholarship in all academic disciplines. Membership is by invitation issued to selected juniors, seniors and graduate students who have excelled in scholarship and who meet the chapter’s requirements.

Baccalaureate Degree Programs

In the 1982–83 academic year, the College will offer bachelor’s degree programs in the following fields (majors):

<table>
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<tr>
<th>School of Administration</th>
<th>Administration</th>
<th>B.A./B.S.</th>
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</thead>
<tbody>
<tr>
<td>School of Humanities</td>
<td>Art</td>
<td>B.A.</td>
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<td></td>
<td>English</td>
<td>B.A.</td>
</tr>
<tr>
<td></td>
<td>French</td>
<td>B.A.</td>
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<tr>
<td></td>
<td>Humanities</td>
<td>B.A.</td>
</tr>
<tr>
<td></td>
<td>Music</td>
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<td>Philosophy</td>
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<tr>
<td></td>
<td>Spanish</td>
<td>B.A.</td>
</tr>
<tr>
<td></td>
<td>Theatre Arts</td>
<td>B.A.</td>
</tr>
<tr>
<td>School of Natural Sciences</td>
<td>Biology</td>
<td>B.A./B.S.</td>
</tr>
<tr>
<td></td>
<td>Chemistry</td>
<td>B.A./B.S.</td>
</tr>
<tr>
<td></td>
<td>Health Science</td>
<td>B.S.</td>
</tr>
</tbody>
</table>
### Mathematics
B.A./B.S.

### Nursing
B.S.

### Physics
B.A./B.S.

### School of Social and Behavioral Sciences
- **Anthropology** B.A.
- **Criminal Justice** B.A.
- **Economics** B.A.
- **Geography** B.A.
- **History** B.A.
- **Political Science** B.A.
- **Psychology** B.A.
- **Social Sciences** B.A.
- **Sociology** B.A.

### Interdisciplinary Programs
- **American Studies** B.A.
- **Child Development** B.A.
- **Environmental Studies** B.A.
- **Human Services** B.A.
- **Liberal Studies** B.A.
- **Special Major** B.A.
- **Vocational Education** B.V.E.

### Graduate Programs
In the 1982–83 academic year, the College will offer master's degree programs in the following fields:

- **Business Administration, M.B.A.**
- **Public Administration, M.P.A.**
- **Biology, M.S.**
- **Education, M.A.**
  - (with options in elementary education, secondary education, history and English for secondary teachers, reading, counselor education, school administration, special education, bilingual/cross-cultural education and vocational education)
- **English Composition, M.A.**
- **Psychology, M.A.**
- **Psychology, M.S.** (with concentration in clinical/counseling psychology)
- **Special Major, M.A.**

### Special Courses
More specific information on the special courses described below can be obtained from the Office of Academic Planning or the appropriate schools and departments.
Comprehensive Examinations. Students now have limited opportunities to spend a full term out of the classroom while preparing for comprehensive examinations that serve as alternatives to regular instruction. Comprehensive examinations are currently available in psychology, sociology and in upper-division general education (see Interdisciplinary Studies 388).

Cooperative Education. The College is developing ways in which students may earn course credit through academically related work experience. Currently available are internship courses in administration, anthropology, art, child development, criminal justice, education, geography, history, political science, psychology and sociology.

Words and Ideas. In an attempt to integrate the teaching of composition and logical reasoning, the College offers an optional two-term, 10-unit course called Words and Ideas (Interdisciplinary Studies 101A and B). Students register in this course for two successive terms and receive general education credit in the area of basic studies (equivalent to English 101 and Philosophy 105).

Self-Paced Courses. An alternative mode of instruction, being developed for a few courses, enables students to set their own learning pace. Some of these, such as French 101-102-103, involve some classroom work. Others, such as Administration 303, 304, 306; Anthropology 335; French 420, History 540, Psychology 385 and Social Sciences 215, are conducted on an independent study basis made possible through the use of study guides, video tapes and other instructional resources.

Facilities

The academic program is complemented by an excellent physical plant, consisting of 23 air-conditioned buildings. In addition to the facilities for course work in the arts, letters and sciences, the College has a number of rather distinctive facilities, such as simulation laboratories, a modern instructional center for counseling psychology, an electronic music studio, glass blowing facilities in the Art Department and a scanning electron microscope.

The College Library

The College Library consists of a general collection of 370,000 books and bound periodicals. The Library subscribes to more than 1800 periodicals and newspapers in addition to other serial publications. The book collection is further augmented by recordings, musical scores, maps, microformat materials, pamphlets and curriculum materials. As a depository for California state documents, the Library regularly receives state publications. Reciprocal borrowing agreements with other area libraries further enhance the availability of material.

All materials are easily accessible to students. An open-shelf arrangement of the collection gives users convenient access to Library materials. The Library occupies the first, third and fourth floors and parts of the basement and fifth floors of the Library-Classroom Building in the center of the campus. Special facilities include individual study cubicles and carrels, group study rooms, typing rooms, listening facilities, photo-duplicating service, microform
Academic Program / 23

rooms, a map room and seating for about 800 users. Individual or group instruction in Library usage is available upon request.

The Computer Center

The Computer Center provides access to four computer systems which allow students a wide range of computing experiences. Each year, approximately 30 percent of the student body utilizes these computer systems for class assignments in programming, problem solving, simulations and computer-assisted instruction.

Generally students interface with the computers at the Terminal Lab, located in the basement of the Library. Terminals, printers and keypunches are available in the lab along with consultants to assist student users. Adjacent to the Terminal Lab is the Microcomputer Lab which provides access to several microcomputers utilizing color graphics, voice synthesis, voice recognition and music synthesis. Other terminals and microcomputers are located in various departments throughout the campus.

The computer systems available on campus are a Control Data Corporation (CDC) CYBER 170 model 720 for timesharing and batch processing and a Digital Equipment Corporation PDP 11/45 timesharing minicomputer. Access to two centrally located computer systems, a CDC CYBER 174 and a CDC CYBER 170 model 760, is facilitated through communication links between the campus and the State University Data Center in Los Angeles. Access to any of these systems for class or special projects is available at no expense to all students, both graduates and undergraduates.

The Learning Center

The Learning Center provides individual and group tutoring in most academic areas. Seminars that are offered during each academic year focus on topics such as term paper preparation, college study and survival skills, pre-statistics, writing awareness and improvement, and intermediate writing. In conjunction with SAIL, a two-unit college study skills course is taught. Large lecture courses are taped, with the tapes maintained in the center. Cassette and video tapes of specific classes and foreign languages also are available to support classroom instruction.

Scheduling of Classes

Three basic plans are used in scheduling classes—four 50-minute periods per week, two 100-minute periods, or one four-hour period. Principal exceptions occur among laboratory and studio courses and courses which carry fewer than five units credit. The four-period, four-day-per-week format is utilized mostly for morning classes; the two-period, two-day-per-week format for late afternoon and evening classes; and the single four-hour period for certain evening and Saturday classes. The College attempts to maintain accurate information about changing student needs and to adjust its class schedule accordingly.
Composition of the Student Body

The student body, as at most urban campuses, is extremely diverse. Most students are under 24 years of age; but because of the large number of mature adult students, especially in the late-day classes, the average student age is 27. Nearly half of the students are married, a majority work at least part-time and many are graduates of nearby community colleges. Most students commute to the campus, but the College does have a fine residential complex on campus.

International Programs

The California State University (CSU) International Programs offers students the opportunity to continue their studies overseas for a full academic year while they remain enrolled at their home CSU campus. The International Programs' primary purposes are to enable selected students to gain a firsthand understanding of other areas of the world and to advance their knowledge and skills within specific academic disciplines in pursuit of established degree objectives.

A wide variety of academic majors may be accommodated by the 24 foreign universities cooperating with the International Programs in 14 countries around the globe. The affiliated institutions are: the University of Sao Paulo (Brazil); the Universities of the Province of Quebec (Canada); the University of Copenhagen (through Denmark's International Student Committee's Study Division); the University of Provence (France); the Universities of Hamburg, Heidelberg, and Tubingen (Germany); the Hebrew University of Jerusalem (Israel); the University of Florence (Italy); Waseda University (Japan); the Ibero-Americana University (Mexico); Massey University and Lincoln University College (New Zealand); the Catholic University of Lima (Peru); National Chengchi University (Republic of China/Taiwan); the Universities of Granada and Madrid (Spain); and the University of Uppsala (Sweden). Information on academic course offerings available at these locations may be found in the International Programs Bulletin which may be obtained from the International Programs representative on campus.

Eligibility for application is limited to those students who will have upper-division or graduate standing at a CSU campus by September 1983, who possess a cumulative grade-point average of 2.75 for all college-level work completed at the time of application (some programs require a 3.0 cumulative grade-point average), and who will have completed required language study where applicable. Selection is competitive and is based on home-campus recommendations and the applicant's academic record. Final selection is made by the Office of International Programs in consultation with a statewide faculty selection committee.

The International Programs supports all tuition and administrative costs overseas for each of its participants to the same extent that such funds would be expended to support similar costs in California. Students assume responsibility for all personal costs, such as transportation, room and board, and living expenses, as well as for home campus fees. Because they remain enrolled at their home CSU campus while studying overseas, International Programs students earn full resident credit for all academic work completed while abroad and remain eligible to receive any form of financial aid (other than work-study) for which they can individually qualify.
Information and application materials may be obtained from Dr. Richard H. Rowland on campus or by writing to The California State University International Programs, 400 Golden Shore, Suite 300, Long Beach, California 90802. Applications for the 1983–84 academic year overseas must be submitted by February 9, 1983 (except for the New Zealand program where applications are due by May 15, 1983).

**College Foundation**

The Foundation of the California State College, San Bernardino, a California nonprofit corporation, was established in 1962 for the purpose of promoting and assisting the educational services of the College. The Foundation Board of Trustees establishes policies for the administration of scholarship and loan funds, federal research grants and the operations of the Commons and Bookstore.

**The CSUC Desert Studies Center**

The California Desert Studies Consortium operates a Desert Studies Center in the Mojave Desert near Baker, California. The consortium consists of seven campuses of The California State University system, including California State College, San Bernardino. The center offers lodging and laboratory/storage space in support of desert field-oriented courses in biology, geology, geography and anthropology. In addition to providing support for field trips in various disciplines, the center provides a site for independent study courses and research of desert phenomena by individual students, both undergraduates and graduates. Complete details and arrangements for use of the Desert Studies Center are available through the School of Natural Sciences.

**Campus Tours**

Tours of the Cal State campus are available throughout the year, for individuals or groups. Student visitors interested in obtaining first-hand information about the College’s programs or classes may arrange to meet with faculty or administrators. Individuals or small groups also may sit in on class lectures or visit the residence halls, if sufficient prior notice is given for arrangements to be made. Requests should be made through the New Student Services Office.
STUDENT LIFE

Housing

Serrano Village, the College’s on-campus housing facility, is a focal point of campus life for residential students. Social as well as educational activities are organized by the Village residents with the assistance of the housing staff, making the Village a center for living and learning with other students.

The Village is composed of eight attractive redwood houses. Each house has a main lounge, recreation room, kitchenette, laundry-workroom, sun deck and patio. Both single and double rooms are available. Rooms are arranged in suites so that no more than 10 students share a living room, a study room and bathroom facilities.

The Village has both indoor and outdoor recreational facilities. The indoor area contains pool tables, a ping-pong table, mail boxes and a conversational area. The outdoor recreational area contains a barbeque, patio, volleyball court, paddle tennis court, sun deck and a swimming pool.

Living on campus is reasonably priced when compared to the rapidly rising costs of commuting and has the added advantage of being near the College Library and other facilities. The rates for living in the Village include meals served at the nearby College Commons. The cost of a double room and meals is expected to be approximately $2375 per year in 1982-83. Several convenient payment options are available. Serrano Village does not provide family housing or on-campus apartments for married students.

Any student needing information about housing, either on-campus or off-campus, should contact the Housing Office.

Activities

Recognizing the diverse interests, backgrounds and lifestyles of today’s student, the College and the Associated Students strive to provide a rich program of activities. These include orientation for new students, Friday night film series, dances, drama productions, choral concerts, fall and spring festivals, musical concerts, guest lecturer series and small group parties.

The College encourages and aids formation of organizations which add to the educational opportunities of students. Some of these organizations involve students, faculty and staff working together in professional, recreational, educational, service, religious and cultural activities. Recognized groups have full use of College facilities in planning their programs.

All students are members of the Associated Students, which is governed by its Board of Directors. AS sponsors a book co-op, check-cashing service, emergency loan program, legal aid and other student-initiated services. AS also assists the Children’s Center, campus newspaper and many College-wide programs.

The College sponsors an outdoor leisure program called “Escape.” This pro-
gram provides students with the opportunity to learn about and discover California's outdoors while participating in leisure time activities. An attempt is made to create an informal atmosphere which will enable students to make new acquaintances, exchange ideas and develop personal awareness. Examples of “Escape” activities include trips to area amusement parks and sports events, back-packing, skiing, sailing and canoeing.

Student Union

The Student Union is designed to provide comfort, relaxation and recreation for students of the College. The Union provides a spacious lounge area, a convenient snack bar, the Pub with its large-screen television, pool, electronic games, and an outdoor beer garden. Offices for the Associated Students, meeting rooms for various groups and organizations and a large multipurpose room used for dances, lectures and movies are part of the facility.

Intramurals

The intramural program provides an opportunity for students, faculty and staff to participate in organized recreational sports activity.

The program is “fun-oriented” and skill, while helpful, is not a prerequisite.

A comprehensive schedule includes at least ten different events each quarter, ranging from team sports to one-day individual activities. Some of the more popular programs are basketball, canoe races, flag football, floor hockey, skiing, softball, volleyball and the annual turkey trot. Additional events will be offered to meet varying student interests.

Funding and insurance may be provided, on a limited basis, for extramural athletic activities such as volleyball, soccer, softball, floor hockey and basketball.

Specific information about the program is available at the Intramural Office in the Physical Education Building.

Recreation

The physical education facilities, playing courts and swimming pool are made available for recreational enjoyment. All students are encouraged to make use of the gymnasium, courts, activity fields, swimming pool and weight room as long as there is no conflict with classes or other scheduled College events. Also recreational equipment for use on-campus and certain items for off-campus use can be checked out from the Department of Physical Education and Recreation, subject to College regulations.

Since the campus is located only about 45 minutes from mountains, beaches and desert, students have a unique opportunity to explore a variety of recreational activities. Because of student interest in skiing, the Associated Students provides equipment which may be rented.

Questions relating to recreational use of campus facilities or scheduling of facilities for special club or campus organizational use should be directed to the Physical Education and Recreation Office.
Career Planning and Placement

Services of the Career Planning and Placement Center are available to all students of the College. Services include career exploration seminars and materials, advisement on employment and salary trends, counseling about personal satisfaction in career employment, vocational testing service and placement services for graduating seniors, graduate students and alumni. In addition, the Placement Center assists enrolled students who are seeking part-time and vacation employment.

The Placement Center serves as a repository for career placement files for the College's qualified degree and credential candidates who register for placement service. There is no placement services charge for current students. A nominal fee is charged to alumni.

Career Placement Information

The campus may furnish, upon request, information concerning the subsequent employment of students who graduate from programs or courses of study which have the purpose of preparing students for a particular career field. This information includes data concerning average starting salary and the percentage of previously enrolled students who obtained employment. The information provided may include data collected from either graduates of this College or graduates of all campuses in The California State University. Copies of the published information are available in the Career Planning and Placement Center and the Relations with Schools Office.

Financial Aid

The Financial Aid Office administers a variety of programs to assist qualified students. Sources of aid include the federally sponsored Pell and supplementary educational opportunity grants, national direct student loans and the college work-study program. California insured student loans are also available. Short-term loans are available for financial crises which require funds rapidly. The office also administers state grants for Educational Opportunity Program students. Nursing student loans and scholarships are available to students enrolled in that program.

For a student interested in working part-time, on or off campus, assistance in obtaining a job is available through the Financial Aid Office.

All applications for scholarships and financial aid must be completed and in the Financial Aid Office by March 1. Late applications are accepted after March 1 and throughout the school year if funds are available. Applicants are required to submit a copy of the student's or parent’s most recent federal income tax return and the financial need analysis obtained through the College Scholarship Service. Necessary forms can be obtained from high schools, community colleges or the College.

A full description of the College’s financial aid programs is available in the free financial aid brochure.
Scholarships

The scholarships listed below are awarded to new and continuing students in accordance with the terms of the gifts. No special application need be made for these awards unless otherwise indicated. Generally, students must possess a minimum grade-point average of 3.0 (B). Ordinarily, students applying for scholarships are considered for any for which they may be eligible.

The Bank of America Foundation provides four $600 scholarships to full-time students entering their senior year. The recipients must be residents of California with a grade-point average of 3.25.

The California Parent-Teachers Association (PTA) provides a $350 scholarship to upper-division or graduate students entering the field of teaching. The student must be a citizen, of good character, possess a superior academic record, need financial assistance and make a commitment to teach in California for one year.

The California Retired Teachers Association provides a $500 scholarship to a senior or graduate student entering the field of teaching. The student is selected on the basis of financial need, academic achievement and school and community activities.

The California State College, San Bernardino Alumni Association provides scholarships of varying amounts to transfer students exhibiting financial need, academic superiority and community involvement.

The California State College, San Bernardino Associates provides two scholarships totalling $750 to upper-division students who possess a superior academic record, financial need and a record of good citizenship.

The California State College, San Bernardino Music Department provides 19 merit scholarships totaling $950 to students who have demonstrated above-average proficiency with a musical instrument and have performed with a related College organization.

The California State College, San Bernardino Theatre Arts Department provides 13 scholarships totaling $1300 to students who have demonstrated excellence in the field of theatre arts.

The Foundation for California State College, San Bernardino provides approximately $2000 in scholarships to continuing students with superior academic records and financial need. Among the scholarship funds are memorials to Dr. Florence Mote and Dr. Neville Spencer.

The Leslie I. Harris/Bennet Meyers Memorial Fund provides two four-year scholarships of $1,000 per year to high school graduates from the San Bernardino area with outstanding academic records (3.5 grade-point average) and involvement in school activities.

Alfred F. and Chella D. Moore Scholarship Fund provides approximately $17,000 in scholarships to incoming freshmen with outstanding academic records (3.5 grade-point average minimum). The amount of each award is $1200; some awards may automatically be renewed for an additional three years for a total of $4800. Special application is required for renewal.

The Riverside Foundation/Leon S. Heseman Scholarship Fund provides $7000 for scholarships to undergraduate students with superior academic records, financial need and records of good citizenship. Preference is given to residents of Riverside and San Bernardino counties. Typically, scholarships average $500.
The Alan Pattee Scholarship is provided to the children of California law enforcement personnel or firemen who are killed in the performance of official duties within the State of California. The amount of the scholarship is equal to the cost of tuition and mandatory registration fees.

The Nancy E. Smith Scholarship is provided to a full-time student majoring in public administration or political science who intends to pursue a career in public service. The amount of the award is $400.

The Union Pacific Foundation provides a $500 scholarship to a graduate student at California State College, San Bernardino.

Many students qualify for assistance through other programs not administered by the College. They include veterans benefits, dependents of disabled or deceased veterans, Social Security Administration, State Department of Rehabilitation, Bureau of Indian Affairs and other public assistance agencies.

*Cal Grant A/B and Graduate Fellowships.* Students apply directly to the California Student Aid Commission for these state-sponsored awards which cover the expense of required fees. Application blanks and full information on these awards are available at high schools, community colleges and California State College, San Bernardino.

A table summarizing some of the financial aid resources follows:
### Financial Aid Chart

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<td>no</td>
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<tr>
<td>Local scholarships</td>
<td>College financial aid officer</td>
<td>GPA or GPA and need</td>
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</tr>
<tr>
<td>College scholarships</td>
<td>College financial aid officer</td>
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<tr>
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<tr>
<td>B. Grants</td>
<td>High school or college counselor</td>
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<td>Pell Grant</td>
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<td>Supplemental Educational Opportunity Grant</td>
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<tr>
<td>Cal Grant A/B, Fellowships</td>
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<td>C. Loans</td>
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<td>National Direct Student Loan</td>
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<tr>
<td>Nursing program loans</td>
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<tr>
<td>D. Work-study</td>
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<td>need</td>
<td>no</td>
</tr>
<tr>
<td>College work-study program</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. On and off-campus part-time jobs</td>
<td>College placement advisors</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

Other aid-related programs are available through the Veterans Administration, California State Rehabilitation, ROTC, Social Security, Bureau of Indian Affairs and other public assistance agencies.
Counseling and Testing

The Counseling and Testing Center aids students in developing their personal resources and in making full use of the opportunities for growth during their college years. The services of the Center are available to all students in need of professional psychological assistance in educational, vocational or personal matters.

All psychological counseling is completely confidential. Information about a student’s use of the Center is not released to anyone without the written consent of the student.

Services of the center are offered to students at no charge.

The center also administers the college entrance test of the American College Testing program (ACT) and graduate record examinations. There is a charge for tests but not for the services of the center in giving them. Information and applications for other nationally administered tests used for college or graduate school entrance also are available from the center.

New Student Services

New Student Services has been established to help incoming freshmen and transfer students adjust to all the new demands—as well as the new opportunities—of life at the College. The office sponsors orientation programs and special activities for new students. It also publishes newsletters designed to communicate College news of special importance to students such as academic deadlines, social and cultural events and workshops. In addition, New Student Services provides an array of services for prospective students, such as pre-admission counseling and campus tours.

More generally, New Student Services is the “one-stop shopping place” for new students at the College. Students with questions about any part of their college experience may come to the office for counsel and appropriate referral.

International Students

The office of the international student advisor is the primary contact for foreign students including new immigrant and permanent resident students who are nationals of other countries. The office aids students in becoming accustomed to living and studying at the College. It provides information about academic procedures, such as special admission requirements for students from abroad, (see Admission: International Students) and governmental and legal aspects of their stay (for example, issuance of form I-20), restrictions on employment and the academic requirements that must be met to retain student visa.

Counseling is available for personal problems such as adjusting to living in a new cultural environment and working in a new educational setting as well as the types of personal problems encountered by all students. The international student advisor’s office is in the Counseling and Testing Center.

Educational Opportunity Program

The Educational Opportunity Program is an admissions and supportive services program designed to assist students who meet specific income guidelines.
and demonstrate the potential to obtain a baccalaureate degree offered by the College. The services are available for a maximum of five years.

Through the Educational Opportunity Program, the student receives help in admissions, registration, financial aid, housing, curriculum planning, tutoring, counseling, job and graduate school placement and other supportive services, depending upon individual needs.

In addition, Education 25 is offered to all EOP students. This orientation course deals with the topic of "How to succeed in the first year of college."

SAIL Program
The Student Assistance in Learning Program (SAIL) exists to aid students who are in need of improving their skills in one or all of the following areas: English, mathematics, reading, writing and study habits. In addition to providing personal and academic (probation) counseling, SAIL counselors facilitate a series of mini-workshops, "Lifeshops," which are designed to introduce students to the value of career exploration and of developing communication techniques, assertion skills and relaxation techniques.

Student Affirmative Action
The Student Affirmative Action (SAA) Program is designed to provide encouragement, assistance and information to high school and community college students regarding opportunities in higher education. The primary objective of these special outreach efforts is to increase the number of students coming from under-represented ethnic groups and to provide them with educational support services once admitted. Recruitment is focused on students who are likely to be regularly admissable to four-year colleges, but who have not necessarily considered a college education. Referral services are also provided to students who need special admissions. Special efforts also are made to involve parents. Campus tours and home visitations may be arranged upon request.

Upward Bound Program
The Upward Bound Program is a pre-college preparatory program designed to identify and assist low income high school students who demonstrate a potential to succeed in college.

Summer and academic year instructional programs are held in basic skills with tutorial and counseling assistance given to each student. The program also assists students desiring to continue their education by facilitating their admission into college and providing pre-counseling and orientation.

The Upward Bound Program works with 13 high schools: Colton, San Bernardino, Pacific, Cajon, San Gorgonio, Eisenhower, Sierra, Fontana, Bloomington, Birch, Redlands, San Andres and John Milor.

Student Health Center
The Student Health Center provides all services normally administered in a physician's office including emergency care, minor surgery, physiotherapy and gynecological care.
The Health Center is supported by student fees paid at registration and all CSCSB students are eligible for its services. The facility is located on the east side of campus adjacent to the Commons.

If a student needs more care than can be provided by the Health Center, the student is financially responsible for all bills incurred.

Supplemental insurance which provides coverage for students and dependents is available through a private company at student rates. Students not already protected by an insurance program are urged to consider this plan. A brochure which describes coverage is given to each student at registration; copies and claims forms are available in the Student Health Center.

Students who plan to enroll at the College should submit their health information forms prior to registration.

Services to Students with Disabilities

Assisting students who have temporary or permanent disabilities is the primary responsibility of this office. A wide variety of services are provided: campus tours and orientation for special situations such as students in wheelchairs, registration assistance, medical parking arrangements, reader and interpreter services, and helping to identify potential barriers inside and outside of campus buildings.

The office staff also helps students with disabilities to achieve their collegiate objectives. Services include typing assistance, taping assignments and course planning, in cooperation with academic advisors. The office is located in the Library Building.

Department of Public Safety

The Department of Public Safety (College Police) is a fully certified law enforcement agency with primary responsibility for service and protection of the college community.

All officers are empowered by law to enforce all laws of the state of California. Receiving basic and advanced training at the San Bernardino County Sheriff’s Academy, the officers are professional peace officers.

The department provides a full range of services including crime prevention, criminal investigations, traffic control, patrol and plant security. Services provided to the campus community include property identification, lost and found, jumper cables and assistance to motorists locked out of their cars.

All services are provided 24 hours a day and may be obtained by dialing extension 7557 in emergencies and 7555 for all other requests.

Dean of Students

The Dean of Students Office provides general information regarding the campus and assistance with students’ problems. The office can provide information concerning campus policies, procedures and regulations and can advise students on such matters. Information and counseling regarding College grievance procedures, grade appeal matters and the Family Rights and Privacy Act are available here also. A fuller statement on students’ privacy rights, grade appeal and student grievance procedures appears in the Appendix.
Children’s Center

A Children’s Center is available to accommodate children of the college’s students, faculty and staff and people of the community. The children and families must meet the eligibility criteria of the center in order to be enrolled. The center, which is operated through the College Foundation, accepts children two years (toilet trained) to 14 years. The center is open Monday through Friday during the academic school year and is closed during the summer months. The Children’s Center is located behind the Student Services Building.

Further information may be obtained by calling the Children’s Center at 887-7724 or the Dean of Students Office, 887-7526.

Veterans’ Affairs Office

The Veterans’ Affairs Office is responsible for assisting student veterans to achieve their academic and personal growth goals at the College. Services include admissions advisement, coordination with other veterans agencies and offices, and referral to proper on- and off-campus agencies on matters of transitional, remedial, tutorial and related services. Personnel in this office provide general advisement services to veterans who are experiencing difficulty in College.

Alumni Association

All graduates of the College are eligible to join and participate in the activities of the California State College, San Bernardino Alumni Association. Also eligible are those who earn credentials through the College and members of the senior class.

The purpose of the nonprofit association is to: assist alumni in continued cultural and educational development, further the community interests of the College, establish mutually beneficial relationships between the College and its alumni, and promote the educational goals of the College. Additional information may be obtained from the Associate Dean of Student Services.

The Commons

The Commons, one of the social centers of the campus, serves residential and commuter students, faculty and staff. The facility offers an attractive view of the mountains which provides a pleasant atmosphere for eating and relaxing.

Bookstore

Students are able to purchase or order books and supplies needed for classes plus magazines, records, class rings and personal items from the on-campus bookstore, owned and operated by the College Foundation. The bookstore is a nonprofit operation, with proceeds used to further the educational aims of the College.
Student Responsibility

Students at the College are subject to all federal, state and local laws as are other citizens. Of particular importance are regulations established by the State of California through its Education Code. In addition, Board of Trustees and local College regulations directly affect student life on campus. Students are responsible for their behavior on campus and are expected to comply with all policies and regulations which are posted and/or printed in College publications. Copies of all policies which affect students are available at the Dean of Students Office. The Student Conduct Code, which relates to student disciplinary matters, appears in the Appendix of this Bulletin.
ADMISSION
TO THE COLLEGE

Requirements for admission to the California State College, San Bernardino are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Administrative Code. Prospective applicants who are unsure of their status under these requirements are encouraged to consult a high school or college counselor or the Admissions Office. Applications may be obtained from the admissions office at any of the campuses of The California State University or at any California high school or community college.

Students who are admitted to the College for a given term but who do not register in that term must file a new application form and $25 application fee when they again seek admission and must meet the then current admission requirements.

Undergraduate Application Procedures

Prospective students, applying for part-time or full-time programs of study, in day or evening classes, must file a complete application as described in the application booklet. The $25 nonrefundable application fee should be in the form of a check or money order payable to The California State University and may not be transferred or used to apply to another term.

Undergraduate applicants need file only at their first choice campus. An alternative choice campus and major may be indicated on the application, but applicants should list as alternative campus only that campus of The California State University that they can attend. Generally, an alternative degree major will be considered at the first choice campus before an application is redirected to an alternative choice campus. Applicants will be considered automatically at the alternative choice campus if the first choice campus cannot accommodate them.

Systemwide Impacted Programs

Impacted programs are undergraduate programs in which the number of applications received in the first month of the filing period exceeds the total spaces available, either locally (at individual campuses) or systemwide. You must make application for an impacted program during the first month of the filing period and may file more than one application and fee for additional programs. Nonresidents, foreign or domestic, usually are not considered for admission to impacted programs. High school and community college counselors are advised before the opening of the fall filing period which programs will be impacted.

Each campus with impacted programs uses supplementary admission criteria in screening applicants. Campuses are authorized to use a freshman applicant’s
ranking on the eligibility index, the transfer applicant’s overall GPA, or a combination of campus-developed supplementary criteria in selecting those to be admitted. Freshmen applicants who plan to apply to an impacted program should take the ACT or SAT test at the earliest date. Test scores (received by the campus no later than the end of the first month of the filing period) and grades earned in the final three years of high school may be used to determine admission to the program. The supplementary admission criteria used by the individual campuses to screen applicants appear periodically in the Counselors Digest and are sent by the campuses to all applicants seeking admission to an impacted program.

Unlike unaccommodated applicants to locally impacted programs, who may be redirected to another campus in the same major, unaccommodated applicants to systemwide impacted programs may not be redirected in the same major but may choose an alternative major either at the first choice campus or another campus.

**Postbaccalaureate Application Procedures**

All applicants for any type of postbaccalaureate status (for example, master’s degrees, credentials and courses for professional growth) must file a complete application within the appropriate filing period. Candidates for second baccalaureate degrees should apply as undergraduate degree applicants. A complete application for postbaccalaureate status includes all of the materials required for undergraduate applicants plus the supplementary graduate admissions application. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to submit an application and the $25 nonrefundable fee.

Since applicants for postbaccalaureate programs may 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. If a postbaccalaureate applicant wishes to be assured of initial consideration by more than one campus, a separate application (including fee) must be submitted to each. Applications may be obtained from the Graduate Studies Office or Admissions Office at any campus of The California State University or from high schools or community colleges.

**Hardship Petitions**

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

<table>
<thead>
<tr>
<th>Terms in 1982-83</th>
<th>First accepted</th>
<th>Filing period duration</th>
<th>Student notification begins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer quarter 1982</td>
<td>Feb. 1, 1982</td>
<td>Each campus accepts applications until capacities are reached.</td>
<td>March 1982</td>
</tr>
<tr>
<td>Fall semester or quarter 1982</td>
<td>Nov. 1, 1981</td>
<td>Most accept applications up to a month prior to the opening day of the term.</td>
<td>Dec. 1981</td>
</tr>
<tr>
<td>Winter Quarter 1983</td>
<td>June 1, 1982</td>
<td>Some will close individual programs as they reach capacity.</td>
<td>July 1982</td>
</tr>
<tr>
<td>Spring semester or quarter 1983</td>
<td>Aug. 1, 1982</td>
<td></td>
<td>Sept. 1982</td>
</tr>
</tbody>
</table>

Space Reservation Notices

Most applicants will receive some form of space reservation notice from their first choice campus within two months of filing the application. A notice that space has been reserved is also a request for records necessary to make the final admission decision. It is an assurance of admission only if evaluation of the applicant’s previous academic record indicates that admission requirements have been met. Such a notice is not transferable to another term or to another campus.

Recommended High School Preparation

Overall excellence of performance in high school subjects and evidence of academic potential provide the basis for admission to the College. While no specific course pattern is required, the applicant, to be properly prepared to undertake a full program of studies, is strongly encouraged to include the following subjects in his high school program:

- College preparatory English, foreign language, college preparatory mathematics, college preparatory laboratory science, college preparatory history and/or social science, plus study in speech, music, art and other subjects contributing to a strong academic background. Beginning in the fall of 1984, entering freshmen will be required to have four years of high school English and two years of high school mathematics.

Undergraduate Admission Requirements

First-time freshman eligibility is governed by an eligibility index. The index is computed using the high school grade-point average on all course work completed in the last three years of high school, exclusive of physical education and military science; and the ACT composite or the SAT total score. The table of grade-point averages, test scores and the equation by which the index is computed is reproduced on Page 302.

Registration forms and dates for either test may be obtained from school or college counselors, from the addresses below, or from the campus testing offices. For either test, submit the registration form and fee at least one month prior to the test date.

<table>
<thead>
<tr>
<th>ACT</th>
<th>SAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>American College Testing Program</td>
<td>The College Board</td>
</tr>
<tr>
<td>Registration Unit, P.O. Box 414</td>
<td>Box 592</td>
</tr>
<tr>
<td>Iowa City, Iowa 52240</td>
<td>Princeton, N.J. 08540</td>
</tr>
</tbody>
</table>
Admission

First-Time Freshmen (California high school graduates and residents)

Applicants who are graduates of a California high school or legal residents for tuition purposes need a minimum eligibility index of 741 (ACT) or 3072 (SAT). The following table illustrates grade-point averages and scores needed to qualify for admission.

Excerpts from Admissions Eligibility Table for California High School Graduates

<table>
<thead>
<tr>
<th>G.P.A.</th>
<th>2.00*</th>
<th>2.20</th>
<th>2.40</th>
<th>2.60</th>
<th>2.80</th>
<th>3.00</th>
<th>3.20**</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT</td>
<td>35</td>
<td>31</td>
<td>27</td>
<td>23</td>
<td>19</td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>SAT</td>
<td>1472</td>
<td>1312</td>
<td>1152</td>
<td>992</td>
<td>832</td>
<td>672</td>
<td>512</td>
</tr>
</tbody>
</table>

* Below 2.0 not eligible
** Above 3.20 exempt from test requirement

First-Time Freshmen (nonresident)

Applicants who are neither residents for tuition purposes nor graduates of a California high school need a minimum eligibility index of 826 (ACT) or 3402 (SAT). Applicants whose GPA is above 3.60 are exempt from the test requirements.

Undergraduate Transfers (resident and nonresident)

Transfer admission eligibility is based on transferable college units attempted, rather than on all college units attempted. California community college transfers should consult their counselors for information on transferability of courses. Applicants in good standing at the last institution attended may be admitted as undergraduate transfers if they meet either of the following requirements:

1. Eligible for admission in freshman standing (see freshman requirements) with a GPA of C (2.0 on a scale where A equals 4.0) or better in all transferable college units attempted.

2. Completed at least 56 transferable semester units or 84 transferable quarter units with a GPA of C (2.0 on a scale where A equals 4.0) or better if a California resident; nonresidents must have a GPA of 2.4 or better.

International (foreign) Students

Applicants for admission as either graduates or undergraduates whose education has been in a foreign country should file an application for admission, official certificates and detailed transcripts of record from each secondary school and collegiate institution attended several months in advance of the opening of the quarter in which the applicant expects to attend. If certificates and transcripts are not in English, they should be accompanied by certified English translations. Credentials will be evaluated in accordance with the general regulations governing admission to California State College, San Bernardino.

An applicant whose education has been in a language other than English must take the Test of English as a Foreign Language (TOEFL). This test is administered in most foreign countries and test scores must be received by the College before admission to the College can be granted. Information as to the time and place at which this test is given may be obtained from: Educational Testing Service (TOEFL), Princeton, New Jersey 08540, U.S.A.

Foreign applicants must also submit a statement of financial responsibility to
the international student advisor to be considered for admission to the College. Also, foreign students are required to submit evidence of adequate medical/hospital insurance to the international student advisor.

Arrangements for housing should be completed before the student’s arrival on the campus. Detailed information regarding housing may be obtained from the Director of Housing, California State College, San Bernardino. Scholarship aid for entering students is limited; no scholarships are specifically reserved for students from another country.

Upon arrival at California State College, San Bernardino the student should obtain an appointment as early as possible with the foreign student advisor.

**English Placement Test**

All entering freshman and lower-division students who enroll with fewer than 84 transferable quarter units or 56 transferable semester units must complete the CSU English placement test (EPT) with the exception of students who present one of the following:

1. Satisfactory scores on the CSU English equivalency examination.
2. Score of 3, 4 or 5 on the English composition examination of the College Board Advanced Placement Program.
3. A score of 600 or above on the College Board achievement test in English composition with essay.
4. A score of 510 or above on the verbal section of the College Board Scholastic Aptitude Test (SAT—verbal).
5. A score of 23 or above on the ACT English usage test.
6. Completion of an acceptable college course in English composition of four quarter or three semester units with a grade of C or better.

(To be eligible to enroll in English 101, Freshman Composition, a student must achieve an essay score of seven or greater and a total score of 150 or greater, or must have completed the English placement test and have earned a grade of C or better in English 100.)

Failure to take the English placement test at the earliest opportunity after admission may lead to administrative probation which, according to Section 41300.1 of Title 5, California Administrative Code, and CSU Executive Order 186, may lead to disqualification from further attendance. The results of the EPT will not affect admissions eligibility but will be used to identify students who need special help in reading and writing in order to do college-level work.

Information bulletins and registration materials for the EPT will be mailed to all students subject to the requirement. The materials may also be obtained from the Office of Admissions and Records.

**Admission of Postbaccalaureate and Graduate Students**

Requirements pertaining to the admission of postbaccalaureate and graduate students are contained in the section on Graduate Programs, Page 77.

**Returning Students**

Students in good standing may be readmitted to the College after an absence of one term by filing a registration packet code sheet. The application and fee
of $25 are required if the student was not enrolled in any of the three terms (excluding summer session) prior to the term for which he is seeking admission or if he was enrolled in another institution during his absence from the California State College, San Bernardino. (See leave of absence Page 59.)

High School Students

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by the principal and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given program and does not constitute the right to continued enrollment. The College’s High School-College Program enables qualified high school juniors and seniors to enroll in college classes at times convenient to their high school schedules. A brochure describing the program is available from the Office of Admissions and Records or the Office of Academic Planning.

Other Applicants

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

Transfer of Credit

A maximum of 70 semester units (105 quarter units) of work taken at a community college can be applied toward the requirements for a degree from the College. No upper-division credit may be allowed for courses taken in a community college. No credit may be allowed for professional courses in education taken at a community college, other than an introduction to education course.

The Office of Admissions and Records will evaluate previous college work to determine its applicability to the requirements of the College. All undergraduate degree candidates will be issued a credit summary, indicating requirements which remain unfilled. Once issued to a student, the credit summary remains valid as long as the student matriculates at the date specified, pursues the objective specified, and remains in continuous attendance. Students will not be held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Administrative Code or the California Education Code.

Credit for work completed at institutions of recognized accreditation will be accepted toward the satisfaction of degree requirements at the College within limitations of residence and major requirements, community college transfer maximums, and course applicability.

Advanced Placement for Entering Students

The College grants credit toward its undergraduate degrees for successful completion of examinations of the advanced placement program of the College
Board. Students who present scores of three or better will be granted ten quarter units of college credit. For information on taking advanced placement examinations, students should consult their high school counselors.

College credit is also awarded to students who present appropriate scores on the CSU English equivalency examination and the College Level Examination Program general examination in the areas of social sciences, mathematics, natural science and humanities. Credit is also awarded for examinations in certain subjects. A list of the subjects for which credit can be awarded is available in the Office of Admissions and Records.

Information concerning other testing programs also is available in the Office of Admissions and Records.

**Credit for Extension and Correspondence Courses**

A maximum of 36 quarter units of credit earned through extension may be applied to a baccalaureate degree program. A maximum of 13 quarter units of graduate credit earned through extension registration may be accepted toward a master's degree program. No credit so earned may be used to satisfy the college residence requirement.

Only those credits will be accepted for transfer which are acceptable toward a degree or credential at the institution offering the courses.

**Credit for Military Service**

The College grants nine quarter units of lower-division undergraduate credit to veterans with a minimum of one year of active duty in the armed forces of the United States. This credit is applied as electives and may not apply toward the requirements in general education.

A limited amount of additional credit may be granted to students who have completed certain service schools in addition to basic training. This credit is allowed on the basis of recommendations of the Commission on Accreditation of Service Experiences of the American Council on Education.

**Admission to Teaching Credential Programs**

Admission to the College as a student does not constitute admission to a teaching credential program. Students who intend to work toward credentials should make application to the School of Education of the College.

**Admission as an Auditor**

A student who wishes only to audit a course instead of enrolling for credit must complete a statement of residence issued by the Office of Admissions and Records. Auditors must pay the same fees as would be charged if the courses were taken for credit. Enrollment as an auditor is subject to the approval of the instructor. A student registered as an auditor may be required to participate in any or all classroom activities at the discretion of the instructor. Credit for courses audited will not be subsequently granted on the basis of the audit. Transcripts are not issued for students enrolled as auditors only.
Permission to register as an auditor is by appointment with the Registrar after the second day of registration.

Admission to Summer Session

Students interested in attending summer session only do not need to file an application for admission to the College. Instructions for applying for summer session only are included in the Summer Session Bulletin. Attendance at summer session does not automatically constitute admission to the College for ensuing regular terms.

Readmission of Previously Disqualified Students

After receiving notice of disqualification, a student may petition the Dean of Admissions for readmission to the College on probation. All petitions for readmission must be submitted to the Office of Admissions and Records two weeks before the first day of registration for the term in which the student would enroll.

Admission on Academic Probation

An applicant with advanced undergraduate standing who does not meet the requirements stated above is eligible for admission on probation, if, in the opinion of the proper college authorities, he is likely to succeed in college.

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

Applicants who are admitted with a grade-point deficiency are given probationary status and are subject to the probation and disqualification regulations as stated on Page 63. A student admitted on probationary status may be restricted by his advisor to a limited program.

Determination of Residence

The determination of whether a student qualifies as a resident for admission and tuition purposes is made by the College after review of a residence questionnaire, designed to provide necessary information including the applicability of any exceptions. A statement summarizing the principal rules regarding residency determination and their exceptions is included in the appendix.

Use of Social Security Number

Applicants are required to include their social security number in designated places on applications for admission pursuant to the authority contained in Title 5, California Administrative Code, Section 41201. The social security number will be used as a means of identifying records pertaining to the student as well as identifying the student for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the College.
In the Theatre Arts Department
Late-Day Classes

Courses offered in the late afternoon and evening are in every respect the equal of courses offered earlier in the day; they have identical prerequisites and requirements and they confer equal credit. Late-day classes have proved to be of convenience to regular and part-time students, teachers, business people and others in the community. The proportion of late-day classes has been increasing and stands currently at more than one-third of all classes.

Evening Services Office

During the regular academic year, the College maintains an office to assist evening students. This office, located in the Library-Classroom Building, telephone 887-7520, provides these students with many of the services usually offered during the day, such as help with college regulations, dropping courses, graduation checks, changes in major and parking permits. This office also makes available general information about the College's academic programs and activities. Further information may be obtained from the Office of Academic Planning.

Degree Completion Programs For Part-Time Students

Increasing opportunities are being developed for part-time students to complete baccalaureate and master's degree programs by attending late-day classes. Presently offered in the late afternoon and evening is a sufficient range of upper-division course work to complete a major in administration, child development, criminal justice, economics, English, geography, health science, history, humanities, human services, liberal studies, nursing, political science, psychology, social sciences, sociology, Spanish and vocational education. At the graduate level, master's degree programs are available in business administration, public administration, biology, education, English composition and psychology.

Students who wish to undertake a late-day degree-completion program in other fields should consult with the department of their proposed major regarding the availability of required courses and then apply for admission to the College in the usual manner. (Persons with limited study time should note that a single late-day course constitutes one-third of a full load.)
**FEE SCHEDULE**

The regular fees of the College are given below. Students are required to pay registration fees at registration. Tuition is not charged to legal residents of California.

Checks will be accepted at registration only for the amount of fees due. VISA and Master Charge bank credit cards may be used for payment of student fees. The application and identification fees are nonrefundable.

The following reflects the fees and expenses for the quarter system in effect when the Bulletin was printed. They are subject to change:

**All Students**

<table>
<thead>
<tr>
<th>Fee</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application fee (nonrefundable, payable by check or money order at time of applying)</td>
<td>$25.00</td>
</tr>
<tr>
<td>Student service fee</td>
<td>$72.00</td>
</tr>
<tr>
<td>Facilities fee</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Associated Students fee</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>6 units or less</td>
<td>$4.00</td>
</tr>
<tr>
<td>6.1 units or more</td>
<td>$8.00</td>
</tr>
<tr>
<td>Winter</td>
<td></td>
</tr>
<tr>
<td>3.0 units or less</td>
<td>$3.00</td>
</tr>
<tr>
<td>6.0 units or more</td>
<td>$6.00</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>3.0 units or less</td>
<td>$3.00</td>
</tr>
<tr>
<td>6.0 units or more</td>
<td>$6.00</td>
</tr>
<tr>
<td>Summer session</td>
<td></td>
</tr>
<tr>
<td>3.0 units or less</td>
<td>$3.00</td>
</tr>
<tr>
<td>3.0 units or more</td>
<td>$3.00</td>
</tr>
</tbody>
</table>

| Student identification card fee          | $2.00    |
| Student union fee                        |          |
| Fall                                     | $13.00   |
| Winter                                   | $12.00   |
| Spring                                   | $12.00   |
| Summer session                           | $7.00    |

| Instructionally related activities fee   |          |
| Fall                                     | $4.00    |
| Winter                                   | $3.00    |
| Spring                                   | $3.00    |

| Nonresidents (foreign and domestic)      |          |
| Tuition (in addition to other fees charged all students): per unit or fraction | $70.00   |

| Residence halls (for academic year)      |          |
| Room and board (19 meals per week), double room | $2300.00 |
| Room and board (19 meals per week), single room | $2600.00 |
| Room and board (15 meals per week), double room | $2150.00 |
| Room and board (15 meals per week), single room | $2450.00 |

| Summer session fee                       | $32.00   |

| Special fees                             |          |
| Credential fee                           | $40.00   |
| Art fee, certain studio courses          | $5.00-10.00 |
| Late registration                        | $20.00   |
| Failure to meet required appointment or time limit | $2.00 |
| Diploma fee                              | $3.00    |
| Graduation fee                           | $4.00    |
| Certificate fee                          | $6.00    |
| Parking fees (per quarter)               |          |
| First vehicle                            | $15.00   |
| Two-wheeled vehicle (includes mopeds)    | $3.75    |
| Summer session (six-week session)        | $7.00    |
| Check returned for any cause             | $10.00   |
| Replacement of registration packet       | $2.00    |
| Transcript of academic record            | $2.00    |
| Library fees                             |          |
| Schedule posted at Library circulation desk |          |
| Master's degree thesis                   |          |
| Contact Office of Academic Planning      |          |

**Note:** Fees subject to change without advance notice.
Student Services Fee

A student services fee has been established by the trustees of The California State University in lieu of a previous material and service fee. It provides financing for various student services programs not covered by state funding. A full description of the allocation of the fee may be found in the appendix, Page 306.

Alan Pattee Scholarships

Children of deceased California public law enforcement or fire suppression employees, who were killed in the line of duty, are not charged fees or tuition of any kind at any California State University campus, according to the Alan Pattee Scholarship Act. Students qualifying for these benefits are known as Alan Pattee scholars. Further information is available at the Office of Admissions which determines eligibility.

Veterans' Dependents Exemptions

Certain dependents of U.S. veterans with service-connected disabilities and veterans who have been killed in service or died of a service-connected disability may be eligible for waiver of college fees. The annual income of the surviving parent cannot exceed $5000. Further information is available at the Veterans Office.

Refund of Fees

Fees may be refunded only as authorized by Sections 41802, 41803 and 41913 of Title 5, California Administrative Code. Whether a fee may be refunded and the circumstances under which a refund is possible vary depending on the particular fee involved. Requirements governing refunds may include such matters as the reason (for example, death, disability, compulsory military service), the number of days of instruction which have elapsed before application for refund is made (for example, requests for refund of student services fees), Associated Student Body fees and student union fees must be made no later than 14 calendar days following the start of regular classes and requests for refund of extension course tuition fees must be made prior to the fourth meeting of the class), and the degree to which the campus has provided the services for which the fee is charged. Details about refunds and the appropriate procedure to be followed may be obtained from the Business Office. The last date for refund of fees for each term appears in the class schedules.

Upon a student's withdrawal from all classes, the student services fee, the Associated Students fee, the Student Union fee and the instructionally related activities fee may be refunded if written application for refund, on forms provided by the Registrar, is submitted to the Bursar not later than 14 calendar days (includes Saturdays, Sundays and holidays) following the first day of classes. However, $5.00 shall be retained to cover the cost of registration. Students registered for credit or audit who make changes in their program resulting in a lower fee category may receive a refund consisting of the difference in student services fees between the higher or lower fee category, less $5.
Nonresident tuition is refunded on a prorated basis during the first four weeks of instruction according to the following schedule: 100% before or during the first week of instruction, 75% during the second week, 50% during the third week, 25% during the fourth week. No refund is available after the fourth week.

Parking fees are refunded, upon surrender of the decal, according to the following prorated schedule. Regular quarter: 66% during the first 25 calendar days of the quarter, 33% during the 26th through 50th calendar days, no refund after the 50th day. Summer session (based on calendar days commencing on the day instruction begins): 66% refunded during the first 10 days, 33% during the 11th through 20th days, no refunds after the 21st day.

Estimated Costs per Quarter

It is estimated that students pay about $95 each quarter for books and $95 for fees plus parking costs.

Debts Owed to the College

If a student becomes indebted to the College, the College is authorized by Title 5 of the California Administrative Code 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" until the debt is paid.

Under these provisions, the College may deny permission to register or may withhold permission to receive official transcripts of grades.

If a student feels that he does not owe all or part of an unpaid obligation, he should contact the College business office which will review the matter, including information the student may wish to present, and will advise the student of its conclusions.
ACADEMIC REGULATIONS

All students who register at California State College, San Bernardino in resident study for either the fall, winter or spring quarter must first be admitted to the College by the Office of Admissions. No student may attend classes until his registration has been completed. Registration is complete only when official programs are properly filed and all fees are paid. Students are required to make all payments on the regularly announced days.

Students are granted credit only for those courses in which they are formally registered and are responsible for completing all courses entered on their official student assignment slips, except those courses they officially change by filing a change of assignment with the Office of Admissions and Records.

Class Level of Students

Students are classified at the end of each quarter according to total earned credits accepted for transfer and/or completed at the California State College, San Bernardino as follows:

<table>
<thead>
<tr>
<th>Status</th>
<th>Units earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower division</td>
<td></td>
</tr>
<tr>
<td>Freshman</td>
<td>0–44.9 quarter units</td>
</tr>
<tr>
<td>Sophomore</td>
<td>45–89.9 quarter units</td>
</tr>
<tr>
<td>Upper division</td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td>90–134.9 quarter units</td>
</tr>
<tr>
<td>Senior</td>
<td>135 quarter units or more</td>
</tr>
<tr>
<td>Postbaccalaureate</td>
<td>Holding baccalaureate degree from an accredited college and not pursuing a graduate degree program</td>
</tr>
<tr>
<td>Unclassified</td>
<td>No degree, credential or certificate objective</td>
</tr>
<tr>
<td>Classified</td>
<td>Pursuing a credential or certificate</td>
</tr>
<tr>
<td>Graduate</td>
<td>Postbaccalaureate student pursuing a graduate degree</td>
</tr>
<tr>
<td>Conditionally classified</td>
<td>Completing prerequisite requirements</td>
</tr>
<tr>
<td>Classified</td>
<td>Admitted to the degree program</td>
</tr>
</tbody>
</table>

Advising

Students have the opportunity to meet with a faculty advisor (counselor) each term for help in planning their academic programs and schedules of classes. Usually, the faculty advisor comes from the same area as the student’s major
field. To make contact with an advisor, call the appropriate department office as listed in the Class Schedule which also gives information about advising for students who have not yet chosen a major and for students interested in one of the College’s certificate or credential programs. Faculty advisors are available during special advising periods, which are held before registration each quarter. (See Class Schedule for dates.) Advisors are also willing to see students during their office hours throughout the term.

The Counseling and Testing Center offers specialized counseling in educational and personal matters. In addition, the Career Planning and Placement Center provides assistance to both students and alumni regarding the job search, information on the job market and career opportunities.

**Academic Course Load: Undergraduates**

The normal full-time course load is 15 quarter units, but a student may carry up to 19.5 quarter units with the advisor’s consent.

A student may carry 20 or more units only upon petition to the school dean. Course overload cards are available in the school dean’s office. Normally, petitions are approved only if both the grade-point average for the previous term and the overall grade-point average are 3.0 or better.

**Academic Course Load: Postbaccalaureate and Graduate Students**

The normal academic load for a postbaccalaureate or graduate student is 10 quarter units. To enroll in more than 15 units in any one quarter, a student must have written approval of the advisor and the Associate Dean of Graduate Studies. Students who must work to support themselves, who have time-consuming family responsibilities, who commute long distances, or who are in other difficult circumstances, should, in conjunction with their advisors, weigh these factors and alter their course loads accordingly.

**Accelerated Progress**

Some students choose to accelerate progress toward completion of their objectives through a program of independent study, summer course enrollment and registration for additional course credits.

Credit-by-examination procedures permit students to demonstrate their mastery of the content of local courses, courses offered through the Advanced Placement Program and the College Level Examination Program.

In some instances, registration in summer sessions permits the completion of one full quarter, 15 units, of degree-applicable work.

Students wishing to enroll for additional course work during the academic year should follow the procedures described in the sections on academic course loads, above.

**Credit for Comprehensive Examination Courses**

Any student admitted to this campus may earn degree credit for no more than three comprehensive examination courses regardless of the total units earned in those courses. This maximum is to be counted separately from all other out-of-class curriculum options (for example, credit by examination). The student’s
major discipline may further restrict the number of comprehensive examination credits acceptable toward the major.

In cases where the subject matter of a comprehensive examination course duplicates that of a course taken previously, the College's Repeat of Course policy will apply (see Page 65). In no instance will duplicate credit be awarded for a repetition of subject matter.

Credit by Examination

A student may petition to receive course credit by examination. In this manner a student who already possesses, or through independent study is able to acquire, the skills or knowledge of the ideas and concepts of a course can accelerate progress through the College. Students must register for the examination in the office of the school or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first two weeks of the term. A limited number of courses may be designated by a school as inappropriate to be challenged by examination.

No fee is charged for these examinations. A student who passes an examination is given the grade of CR (see Page 61 for definition of this grade) for that course, provided that this does not duplicate credit counted for his admission to the College. No official record is made of failures in these examinations.

Examinations for course credit are given under the following restrictions:

1. They may be taken only by students currently enrolled at the College in courses other than the one(s) to be challenged.
2. They may not be taken by students who have received credit for work in the subject in advance of the course in which the examination is requested, except where permission is granted by the school or department concerned.
3. They may not be taken to raise grades or remove failures in courses.
4. Once students have successfully challenged a course, they may not subsequently enroll in the course for credit. Units attempted, units earned and grade points for any such enrollment will be disallowed.
5. A maximum of 40 units of credit may be received through such examinations.
6. A student may repeat an examination for credit only upon approval of the Dean of Academic Planning.
7. Credit by examination may not be used to fulfill the minimum residence requirement.
8. The course must be offered during the term in which the examination is taken. However, students may not enroll in a course they plan to challenge. If the challenge is unsuccessful, the student may add the course subject to the regulations for adding a class printed in the quarterly Class Schedule.

Exact times and places of examinations are announced by the departments concerned. Students who wish to take an examination should consult the departmental office well in advance.

Credit by examination cannot be earned during the summer sessions.

For regulations concerning credit by examination in graduate programs refer to the Graduate Bulletin.
Concurrent Enrollment

Procedures have been established whereby a student in good academic standing at the California State College, San Bernardino who has completed at least 18 quarter units of work at the College and who is eligible to register as a continuing student for the immediately subsequent term may enroll concurrently at another campus of The California State University system. The procedure enables a student to attend another campus within the system, on a term by term basis, without submitting the formal application for admission form and paying the $25 application fee. For information regarding the procedure, contact the Registrar.

To guarantee acceptance, for degree credit, of work taken at institutions other than those within The California State University system, a student must complete a concurrent enrollment/summer session contract. These contracts are prepared by the evaluators in the Office of Admissions and Records.

ROTC Programs

The College has a military science program (Army ROTC), described under Military Science in the academic section of this Bulletin. Students interested in Air Force or Navy ROTC should contact the Office of the School of Social and Behavioral Sciences.

Class Schedule

An official class schedule, prepared each quarter by the College, includes the registration schedule, procedure for registration, fees, classes offered by hours and instructors, and other pertinent registration information. The schedule is available several weeks in advance of registration each quarter and may be purchased at the College Bookstore. Students are responsible for being aware of information contained in the class schedule.

Late Registration

The last day for late registration each term will be announced in the class schedule. The College calendar, Pages 4 and 5, lists registration dates. Late registrants may find themselves handicapped in arranging their programs due to closed classes. A $20 late registration fee is required.

Adding Classes

Students may add classes beginning with the first day of the late registration period and, subject to appropriate approvals, continuing up to and including the last day to add classes. See the Class Schedule.

Auditing Courses

Enrollment in any course as an auditor shall be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so and only upon consent of the instructor. Auditors are subject to
the same fee structure as credit students and regular class attendance is expected.

Credit for courses audited will not subsequently be granted on the basis of the audit. Transcripts are not issued for audited courses.

Once enrolled as an auditor, a student may not change to credit status unless such a change is requested prior to the last day to add classes and is approved by the instructor and the advisor. A student registered for credit may change his status to audit with the approval of his advisor and the instructor concerned and within the prescribed time limits for dropping a course.

Forms for such changes may be secured from the Office of Admissions and Records. Registration is by appointment with the Registrar.

Class Attendance

Regular attendance is expected of all students enrolled at the College. The instructor of each class sets specific standards expected of students.

A student absent from classes is responsible for arranging to make up missed class work and assignments. In cases of prolonged absence, the student should investigate the feasibility of withdrawal from the College. (See below.)

Withdrawal from a Class or the College
(See class schedule for details)

Each student is assigned a grade for every course appearing on his official student assignment.

If a student withdraws officially from the College or from a class by the end of the third week of class (see College calendar for exact date), the course is not recorded on the permanent record.

Withdrawal after the third week, and prior to the last three weeks of instruction, is permissible only for serious and compelling reasons. Permission to withdraw during this time period must be obtained from the instructor and the school dean.

Withdrawal will 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 grade is not practicable. Withdrawal during this period requires the approval of the instructor, the school dean and the Dean of Academic Planning.

A grade of W will be assigned for approved withdrawals occurring after the third week of instruction.

A student who withdraws from all classes in which he is enrolled must officially withdraw from the College.

Leave of Absence

A planned leave of absence, if granted, entitles a student returning from an absence of from three quarters to two years to continue under the requirements of the catalog which applied prior to the absence.
Students may petition for planned leaves for reasons such as: (a) professional or academic opportunities, such as travel or study abroad, employment related to educational goals and major fields of study, or participation in field study or research projects; (b) medical reasons, including pregnancy, major surgery, or other health-related problems; (c) financial reasons, such as the necessity to work for a specified period in order to resume study with adequate resources; (d) military service.

Evaluation of petitions for planned leaves takes into account the student's stated plans and the extent to which a leave would contribute to educational objectives. Students are expected to plan their time of return and their activities during the leave. They must also state why it is critical to remain in continuous residence. In the case of medical or financial leaves, they must state how they plan to remain current with or advance in their academic fields.

Students obtaining a leave of absence after the last day to withdraw without penalty will receive grades of W in all courses.

The granting of a leave of absence does not constitute a waiver of the requirement for applying for readmission, but the application fee will be waived provided that the conditions of the leave have been met.

For information on the current policy, including restrictions, contact the Office of Academic Planning.

Final Examinations

Written examinations of two hours duration are held at the close of each term. In courses extending over more than one term, the examination in the concluding term may also cover work done in the preceding term or terms. Examinations may not be taken before or after the scheduled period nor may the time of an examination be changed without authorization by the Dean of Academic Planning. Permission to take a final examination with a different section in the same course may be granted by the Dean of Academic Planning with the consent of the instructors concerned. Failure to take or to pass any final or other course examinations will result in such deficiencies as instructors may assign.

Final Grade Report

Final grade reports will be available to students within a few weeks after the last day of each quarter.

Grievance Procedures

Information concerning academic or nonacademic matters may be obtained from the Office of the Dean of Students. Generally, a grade grievance must be initiated by the student within no more than 40 calendar days after the grade is recorded. The complete policy statement is available from the Office of the Dean of Students.
Grades

The grade symbols used at the College are as follows:

<table>
<thead>
<tr>
<th>Grade symbol</th>
<th>Performance level</th>
<th>Grade points per quarter hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.0</td>
</tr>
<tr>
<td>A -</td>
<td></td>
<td>3.7</td>
</tr>
<tr>
<td>B +</td>
<td>Good</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td>B -</td>
<td>Satisfactory</td>
<td>2.7</td>
</tr>
<tr>
<td>C +</td>
<td></td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>2.0</td>
</tr>
<tr>
<td>C -</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>D +</td>
<td>Passing</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>1.0</td>
</tr>
<tr>
<td>D -</td>
<td>Failing</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td></td>
<td>0.0</td>
</tr>
<tr>
<td>CR</td>
<td>Credit (A, B, C)</td>
<td></td>
</tr>
<tr>
<td>NC</td>
<td>No Credit (D, F)</td>
<td></td>
</tr>
</tbody>
</table>

All courses, except those specifically designated otherwise, will be graded on the A through F basis.

Grade-point averages are computed by dividing the number of grade points earned by the number of units attempted. Only units and grade points earned by a student while enrolled at this College are used to compute the resident grade-point average.

The following administrative grades carry no grade points and are, therefore, not used to determine a student's grade-point average. However, it should be pointed out that the Incomplete will be counted as an F if not removed within one calendar year from the date it was assigned.

I  Incomplete Authorized
RD Report Delayed
SP Satisfactory Progress
W  Withdrawal

The administrative grade of U carries no grade points but is included in determining units attempted. Thus, it is equivalent to an F.

Expanded Grade Symbol Definitions

A (Excellent): Meeting course requirements with a superior level of performance. A is recognized to be an honors evaluation.

B (Good): Meeting course requirements with a high level of performance.

C (Satisfactory): Meeting course requirements with an acceptable performance.

D (Passing): Meeting course requirements with minimally adequate performance.

F (Failing): Inadequate performance or not meeting course requirements.

CR (Credit): A satisfactory or better level of performance, equivalent to the grade of C (2.0) or better, has been demonstrated in meeting course objective. For graduate courses, equivalent to grade of B (3.0) or better.
NC (No Credit): Performance at an unsatisfactory or failing level, equivalent to a grade of less than C (2.0). For graduate courses, equivalent to a grade of less than B (3.0). Does not award credit for the course.

I (Incomplete): An Incomplete 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 and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A final grade is assigned when the work agreed upon has been completed and evaluated.

An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an Incomplete being counted as equivalent to an F (or an NC) for grade-point average computation.

RD (Report Delayed): The RD symbol is used in those cases where a delay in the reporting of a grade is due to circumstances beyond the control of the student. The symbol is assigned by the Registrar and is replaced by a more appropriate grading symbol as soon as possible. An RD is not included in the calculation of grade-point averages.

SP (Satisfactory Progress): The SP symbol is used in connection with courses which extend beyond one academic term. The symbol indicates that work in progress has been evaluated as satisfactory to date but that the assignment of a precise grade must await the completion of additional course work. Cumulative enrollment in units attempted may not exceed the total number applicable to the student’s educational objective. All undergraduate work is to be completed within the time specified but not to exceed 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. The time limitation for graduate degree theses may be up to two years but may not exceed the overall time limit for completion of all master’s degree requirements. Extension of any time period requires prior authorization by the Dean of Academic Planning.

U (Unauthorized Incomplete): The symbol U indicates that an enrolled student did not withdraw from the course but failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade-point average, this symbol is equivalent to an F.

W (Withdrawal): This symbol indicates that the student dropped the course. It carries no connotation of quality of performance and is not used in calculating grade-point average.

Policy on Credit/No Credit Grading

Courses, except those specifically designated to be taken Credit/No Credit, are graded on the A through F basis. A few are graded ABC/No Credit. Certain activity courses, independent study projects, and other courses serving special needs are not readily evaluated in the traditional A through F manner. The
nontraditional Credit/No Credit grading allows faculty to award credit for satisfactory performance in an activity, rather than assign a letter grade when such performance cannot be evaluated traditionally.

Courses graded Credit/No Credit, whether taken at this or at another institution, may not be used to satisfy requirements for the major, except specific courses designated by the department to be graded Credit/No Credit.

Students who, because of a change of major or because of transfer from another institution or for any other reason, present courses in the major field which have been graded on a Credit/No Credit basis may, at the discretion of the department or other appropriate academic unit, be required to pass competency examinations at an acceptable level or to take prescribed alternate courses before being allowed to continue in the major.

A student may offer no more than 36 quarter units of work graded Credit/No Credit in satisfaction of the total units required in the student's baccalaureate degree program at the California State College, San Bernardino. This number includes any combination of units graded Credit/No Credit earned at the California State College, San Bernardino and any other institution or institutions, excepting that all units accepted for transfer credit from another institution at the time of the student's admission to the College may be used toward the satisfaction of the total units required for the baccalaureate degree. Acceptance for transfer credit by the California State College, San Bernardino of 36 quarter units or more graded Credit/No Credit at another institution or institutions precludes the student from offering courses graded Credit/No Credit at the California State College, San Bernardino, for satisfaction of units required for the baccalaureate degree.

Course grades of credit received under a credit-by-examination program are exempt from the 36-unit limitation.

Scholarship Standards for Undergraduates

For purposes of determining a student's eligibility to remain at the College, quality of performance toward his objective shall be considered. Such eligibility shall be determined by use of grade points and grade-point average.

(a) An undergraduate student shall be subject to probation if, in any academic term, he fails to maintain either a cumulative grade-point average or a grade-point average at the California State College, San Bernardino of at least 2.0 (grade of C on a five-point scale).

(b) An undergraduate student shall be subject to disqualification if while on probation his grade-point balance either cumulative or at the California State College, San Bernardino displays a deficiency in excess of the number permitted for his class level pursuant to deficiency levels established by the chancellor.

Disqualification levels are as follows:
1. Lower-division student (fewer than 90 quarter units of college credit), 22.5 grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;
2. Junior (90 to 134.9 quarter units of college work), 13.5 grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;

3. Senior (135 or more quarter units of college work), 9 or more grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino.

(c) An undergraduate student who is not on probation may be disqualified if at any time his cumulative grade-point average falls below 1.0 (grade of D on a five-point scale) and, in the opinion of the appropriate campus authority, it is unlikely in light of the student's overall educational record that the resultant grade-point deficiency will be removed in subsequent terms.

A student disqualified for scholarship deficiency may not enroll in any regular session of this College without permission from the Admissions and Academic Standards Committee, and may be denied admission to other educational programs operated or sponsored by the College.

Scholarship Standards for Postbaccalaureate and Graduate Students

Students in classified or conditionally classified graduate standing must maintain a 3.0 grade-point average in all work attempted.

Students in classified postbaccalaureate standing in credential programs must maintain grade-point averages appropriate to their program. GPA requirements for the various credential programs are:

- Basic teaching credentials: single or multiple subjects require a 2.7 GPA in all work attempted; the designated subjects credential requires a 2.5 GPA in all work.
- Specialist or services credentials require a 3.0 grade-point average in all work attempted.

Failure to maintain the appropriate grade-point average will result in the student being placed on probation. Students on probation must rectify their grade-point deficiencies by the end of the quarter of notification of probationary status, or they automatically will be disqualified and placed in unclassified postbaccalaureate status. To apply for reinstatement to a graduate degree or credential program after disqualification, the student must petition the appropriate program committee.

A student who has been disqualified from a master's degree program may be admitted to another program only on the recommendation of the department to which the student has applied and with the approval of the Associate Dean of Graduate Studies.

Students in unclassified postbaccalaureate standing and students seeking a second bachelor's degree must meet the same scholarship standards as seniors. Students in this category who are dismissed from the College for failure to maintain these standards must petition the Committee on Graduate Education for readmission to the College.
Administrative Academic Disqualification

An undergraduate or graduate student may also be placed on probation or may be disqualified by appropriate campus authorities for unsatisfactory scholastic progress regardless of cumulative grade-point average or progress points. Such actions shall be limited to those arising from repeated withdrawal, failure to progress toward an educational objective and noncompliance with an academic requirement and shall be consistent with guidelines issued by the chancellor.

Repeat of Courses: Undergraduates

Students may repeat a course only once in order to have the first grade discounted and the grade from the second attempt used on their transcript. The discounting of the grade in a repeated course is by petition only. Discounting means that when computing grade-point averages required for graduation, the College will exclude units attempted, units passed (if any) and grade points (if any) for previous attempts. If a student repeats a course more than once, the subsequent grades will be averaged to determine cumulative grade-point averages. No more than five different courses may be discounted by repeating them. A course may not be repeated for the purpose of removing an incomplete. If a course with variable topics is repeated to discount a previous grade, the same topic (identified by specific schedule number) must be repeated.

Students should inquire at the Office of Admissions and Records for a complete policy statement covering the repeat of courses.

Repeat of Courses: Postbaccalaureate

Classified graduate students and postbaccalaureate students may be permitted to repeat a course under certain provisions. Requirements for seeking permission to repeat courses and utilization of credits earned are explained in detail in the Graduate Bulletin.

Academic Renewal

Under certain circumstances a student may be granted permission to have up to two semesters or three quarters of undergraduate course work, taken at least five years earlier, disregarded from all considerations associated with requirements for the baccalaureate degree. Students who feel that they may qualify for this "academic renewal" policy should consult with the Associate Dean of Admissions and Records.

Plagiarism

Plagiarism is the presentation as one's own the ideas and writings of another. Plagiarism is academically dishonest and subjects the offending student to penalties up to and including expulsion. Students must make appropriate acknowledgements of the original source where material written or compiled by another is used.
Declaring (or Changing) a Major

Work in a major field of study is designed to afford students the opportunity to engage in intensive study of a discipline.

Students may declare a major at the time of admission.

Students entering the College as “undeclared” or those changing their majors should process a change of major form through the Office of Admissions and Records. Students who declare a major or change from one major to another following admission will be held to either

(a) the current Bulletin for requirements of the major and to the Bulletin under which they entered for other college requirements (for example, general education), or
(b) the Bulletin in effect at the time of graduation for all requirements.

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same curriculum in this College, in any of the California community colleges, or in any combination of California community colleges and campuses of The California State University, may, for purposes of meeting graduation requirements, elect to meet the graduation requirements in effect at this College either at the time of entering the curriculum or at the time of graduation from this College, except that substitutions for discontinued courses may be authorized or required by the proper college authorities. (See leave of absence Page 59.)

Postbaccalaureate Credit for Senior Students

A student, for the term (including summer) in which he or she receives the baccalaureate degree, will be granted postbaccalaureate credit for any course taken at California State College, San Bernardino numbered 300 or above which is not needed to meet undergraduate degree requirements. Students not wishing to receive postbaccalaureate credit for such courses must petition to have the work included in their undergraduate program. Postbaccalaureate credit will not be granted for courses numbered below 300 or for courses taken in advance of the last undergraduate term.

Summer Enrollment at Other Institutions

In instances where there might be a question about the acceptability of course work taken at another institution in the summer, students are advised to consult the department offering the equivalent course at this College.

Information for Issuance of Transcripts

Transcripts are issued at a cost of $2 per copy, payable in advance.

All transcripts will be complete as of the date of issuance showing all work attempted at the California State College, San Bernardino.

Copies are normally mailed one week after receipt of request. However, if the request specifies inclusion of grades just earned or verification of a degree just awarded, two to three weeks must be allowed beyond the end of the term for a transcript to be issued.
Access to Records

All student records, including recommendations, are kept by the College in accordance with the Family Educational Rights and Privacy Act of 1974, which allows students access to their records. Inquiries and concerns about this federal regulation should be directed to the office of the Dean of Students for further information.

Information for Veterans

Students who plan to attend the College under the Veterans Readjustment Act of 1972 must present to the Registrar a valid certificate of eligibility in duplicate authorizing training at the California State College, San Bernardino.

The College will certify the following course loads to the Veterans Administration:

**Undergraduates**

<table>
<thead>
<tr>
<th>Fraction of Time</th>
<th>Course Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full time</td>
<td>12 quarter units*</td>
</tr>
<tr>
<td>$\frac{3}{4}$</td>
<td>9-11.5 quarter units*</td>
</tr>
<tr>
<td>$\frac{1}{2}$</td>
<td>6-8.5 quarter units*</td>
</tr>
<tr>
<td>Less than half</td>
<td>See Registrar</td>
</tr>
</tbody>
</table>

* All units must be degree or objective applicable.

**Graduates**

<table>
<thead>
<tr>
<th>Fraction of Time</th>
<th>Course Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full time</td>
<td>12 weighted units*, determined as follows:</td>
</tr>
<tr>
<td>$\frac{3}{4}$</td>
<td>500 and 600-level course weighted at 1.5 units</td>
</tr>
<tr>
<td>$\frac{1}{2}$</td>
<td>300 and 400-level course weighted at 1.0 units</td>
</tr>
<tr>
<td>Less than half</td>
<td>See Registrar</td>
</tr>
</tbody>
</table>

Independent study and self-paced courses will be certified only when the student is concurrently enrolled in residence and independent study courses. The independent study and self-paced courses will be reported at full unit value, unless they constitute more than one-half the academic load. In these cases, the maximum unit value allowed will be five units.
To be eligible for the bachelor's degree, a student must:

1. Complete a minimum of 186 quarter units of college credit.
2. Complete 75 quarter units (15 full-term designated courses) in general education distributed in the manner outlined in the following section titled General Education Requirements.
3. Complete all requirements for a major, including at least 20 quarter units of upper-division course work in the major.
4. Complete at least 45 quarter units at this College.
   (Refer to College Residence Requirement for Graduation, Page 73.)
5. Complete at least 60 quarter units of upper-division work.
6. Earn a grade-point average of 2.0 (C) or better in all units used to fulfill the requirements of the major.
7. Earn a grade-point average of 2.0 (C) or better in all units attempted, and in all units attempted at the College.
8. Complete six quarter units of physical education activity courses, or the equivalent. Students over 25 years old may substitute six units of their choice.
   (Refer to English Placement Test, Page 71.)
10. Complete the upper-division writing requirement.
    (Refer to Page 72.)
11. Complete history, constitution and government requirement.
    (Refer to History, Constitution, Government Requirement, Page 72.)
12. Be recommended for graduation by the faculty of the College.

General Education Requirements

The general education requirements at California State College, San Bernardino are designed to assure that all graduates of the College, whatever their major, have acquired certain essential skills and a broad range of knowledge appropriate to educated persons in our society.

Lower-division courses, distributed among four general categories, are intended to foster an ability to think clearly and logically, to find and critically examine information, and to communicate, at an appropriate level, orally and in writing; to acquaint students with the physical universe and its life forms and to impart an understanding of scientific methodology and of mathematical concepts and quantitative reasoning; to cultivate—through the study of philosophy, literature,
languages, and the arts—intellect, imagination, sensibility and sensitivity; and to deal with human social, political and economic institutions and their historical background, with human behavior and the principles of social interaction. Upper-division courses include a further requirement in writing and cross-disciplinary courses designed to examine, from various perspectives, issues important to an understanding of ourselves, our world and our society.

The purpose of general education is less to provide students with a number of possible avenues for specialization, than it is to make sure that all students will be able to write, speak and think clearly, to understand the issues on which they will have to make decisions, and to know something about themselves and the world in which they live.

The general education program requires a minimum of 75 quarter units distributed as follows:

A. Communication and critical thinking: three courses
   a. English 101
   b. Either Philosophy 105 or Theatre Arts 120 (Interdisciplinary Studies 101A and B may be taken as an alternative to English 101 and Philosophy 105.)
   c. Upper-division writing requirement: one course from among Administration 495, English 495, Humanities 495, Natural Sciences 495, Social Sciences 495
      Students exempted from this requirement by passing a designated special essay examination in writing must take instead a third course from Category E.

B. Humanities: three courses
   One course in the arts:
      a. Art (Art 200)
      b. Music (Music 180)
      c. Theatre Arts (Theatre Arts 250)
   Two courses in letters:
      a. Foreign studies (French, German or Spanish 101-102-103*, Spanish 450, Foreign Languages 450)
      b. Literature (English 110, 111, 170)
      c. Philosophy (Philosophy 190)

C. Natural sciences: three courses
   One course in mathematics:
      Mathematics 100, 110, 120, 200
   One course from the life sciences:
      a. Biology (Biology 100, 202)
      b. Health science (Health Science 120)
   One course from the physical sciences:
      a. Astronomy (Natural Sciences 100)
      b. Chemistry (Chemistry 100, 205, 215)
      c. Earth science (Earth Science 101)
      d. Physical geography (Geography 103)
      e. Physics (Physics 100; 121 and 225; 221 and 225)

D. Social sciences: three courses
   One world cultures course and one American society course must be selected. The third course may be selected from any of the three groups.

* Credit toward the general education requirement will not be awarded for the 101 course unless followed by 102.
Undergraduate Degree Requirements

a. World cultures (Social Sciences 140, 142, 144, 165)
b. American society (Political Science 203; Social Sciences 146, 151, 155, 160)
c. Behavioral and Social Sciences (Anthropology 100, 102; Economics 104; Geography 100; Political Science 200; Psychology 100; Sociology 100)

E. Upper-division general education requirement: two courses
To be chosen from among the designated upper-division general education lecture courses in two of three areas: Humanities (319, 330, 350, 353, 360); Natural Sciences (300, 310, 312, 320, 350, 351); Social Sciences (300, 304, 315, 321, 333, 345). An alternate way to satisfy this requirement is to complete one of the Interdisciplinary Studies comprehensive examination sequences: IS 386A and B, IS 387A and B, or IS 388.

F. General education elective: one course
To be chosen from the designated courses in categories A through E above.

G. Lifelong understanding and development: one course
In completing general education requirements A through F, students must include at least one of the following courses designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities: Biology 100, 202, Health Science 120, Natural Sciences 310, 312, 351, Social Sciences 160, 315, 333, Humanities 319.

Graduation Requirement Check
Seniors and postbaccalaureate students must request a graduation requirement check at the Office of Admissions and Records prior to completing their academic work at the College. Seniors should not request the check until they have accumulated 150 quarter units, which may include work in progress. Graduate students file after being advanced to candidacy. All students must file by the deadlines established for each quarter and published in the academic calendar in the Bulletin and in the Class Schedule.

In addition to certifying that requirements for graduation are met, the process also entitles undergraduate students within 30 units of graduation to first-day priorities for registration. The deadline for filing in order to secure this priority is earlier than the stipulated dates for filing to determine remaining requirements for graduation. Both dates are listed in the Class Schedule.

Students who do not complete the requirements in the term for which the first requirement check was filed must file a second graduation check on a second graduation check form, indicating the quarter in which graduation is expected.

English Placement Test
All entering freshmen and lower-division students who enroll with fewer than 84 transferable quarter units or 56 transferable semester units must complete the CSU English placement test (EPT) with the exception of students who present one of the following:
1. Satisfactory scores on the CSU English equivalency examination.
2. Score of 3, 4 or 5 on the English composition examination of the College Board Advanced Placement Program.
3. A score of 600 or above on the College Board achievement test in English composition with essay.
4. A score of 510 or above on the verbal section of the College Board Scholastic Aptitude Test (SAT—verbal).
5. A score of 23 or above on the ACT English usage test.
6. Completion of an acceptable college course in English composition of four quarter or three semester units with a grade of C or better.

(To be eligible to enroll in English 101, Freshman Composition, a student must achieve an essay score of seven or greater and a total score of 150 or greater, or must have completed the English placement test and have earned a grade of C or better in English 100.)

Failure to take the English placement test at the earliest opportunity after admission may lead to administrative probation which, according to Section 41300.1 of Title 5, California Administrative Code, and CSU Executive Order 186, may lead to disqualification from further attendance. The results of the EPT will not affect admissions eligibility but will be used to identify students who need special help in reading and writing in order to do college-level work.

Information bulletins and registration materials for the EPT will be mailed to all students subject to the requirement. The materials may also be obtained from the Office of Admissions and Records.

Upper-Division Writing Requirement

All students subject to degree requirements of the 1980–81 or subsequent Bulletins must complete an upper-division writing competency requirement as a condition of graduation through either of two means:

1. Completion with a grade of C or better of one of the following courses:
   - Administration 495
   - English 495
   - Humanities 495
   - Natural Sciences 495
   - Social Sciences 495
   
   or

2. Satisfactory completion of a designated essay examination.
   
   (Note: Students who choose this option must substitute a third course from Category E of the general education requirements for the required "495" course in Category A, Page 70.)

Further information about the examination (for example, how much it costs, when it is offered, what it covers) is available from the Counseling and Testing Office, Physical Sciences Building, Room 227 (887-7437). Contact the Office of Academic Planning for questions about the upper-division writing requirement itself.

History, Constitution, Government Requirement

California law prescribes, as a requirement for graduation, that each student demonstrate competence in understanding the Constitution of the United States; American history, institutions and ideals; and the principles of state and local government as established in California.

The requirement in the Constitution of the United States may be met by completing one of the following: Social Sciences 146, History 200 or 540, Political Science 203, 410 or 411.
The requirement in American history, institutions and ideals may be met by completing History 200 and 201, or one of the following: Social Sciences 146, Political Science 314 or History 540.

The requirement in the principles of state and local government as established in California may be met by completing one of the following: History 370B or Political Science 152, 203 or 330.

A student can meet the entire history, constitution and government requirement, while fulfilling general education requirements, by taking Political Science 203 and Social Sciences 146. The opportunity to meet the requirements by passing an optional examination, which may be repeated once, is given to students. Information may be obtained from either the Office of Admissions and Records or the School of Social and Behavioral Sciences office. The examinations are administered through the Counseling and Testing Center.

**Second Bachelor's Degree Requirements**

A student who holds a bachelor's degree from the California State College, San Bernardino or another accredited institution and who applies for a second degree must have satisfactorily completed each of the following in order to receive a second bachelor's degree:

1. General education requirements as stated in the appropriate catalog;
2. Upper-division writing requirement;
3. Requirements of the major involved;
4. In addition to whatever work was presented for the first bachelor's degree, a minimum of 45 quarter units of residence work of which
   (a) 18 units must be in the second major,
   (b) 15 units must be in general education,
   (c) 36 units must be at the upper-division level; and
5. Approval of the faculty of the College.

It is not necessary to complete a second bachelor's degree in order to graduate with a dual major; however, only a single diploma is issued in the case of a dual major.

**College Residence Requirement for Graduation**

A minimum of 45 quarter units must be completed at this College. At least 36 of these units must be upper-division, 18 in the major and 15 in General Education.

Extension credit or credit by evaluation may not be used to fulfill the minimum residence requirement.

**College Honors**

*College Honors at Commencement.* To be considered for College Honors at commencement, a student must have completed a minimum of 45 units of work at the California State College, San Bernardino in courses for which letter grades (A, B, C and D) were received.

Highest Honors: an overall undergraduate GPA of 3.9 or above and a GPA of 3.9 or above in all work attempted at this College.
High Honors: an overall undergraduate GPA of 3.75 or above and a GPA of 3.75 or above in all work attempted at this College.

Honors: an overall undergraduate GPA of 3.5 or above and a GPA of 3.5 or above in all work attempted at this College.

Dean’s List. An undergraduate student completing 15 or more units for which letter grades (A, B, C and D) were received, and who earns a 3.5 or above in any regular academic term will be placed on a Dean’s List.

1. Dean’s Letter of Recognition. Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in any regular academic term will receive a letter of special recognition from the appropriate dean.

2. Presidential Letter of Recognition. Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in three consecutive regular academic terms will receive a letter of special recognition from the President of the College.

Departmental Honors. Individual departments may grant departmental honors, recognizing distinguished students majoring in that field. The requirements to be met to earn honors are specified by the respective departments. Departmental honors are currently awarded in American studies, biology, chemistry, criminal justice, economics, environmental studies, health science, human services, mathematics, nursing, philosophy, political science, psychology and sociology.

Preparation for Professional Schools

The plan of undergraduate study at the California State College, San Bernardino emphasizes a liberal education in preparing for professional or vocational specialization.

Some professions, such as law, stress that candidates for admission to professional schools can best prepare themselves during college by acquiring several fundamental skills. Others, for example, medicine and dentistry, emphasize certain subject matters. A student preparing for either kind of emphasis (skills or specific subjects) has opportunities to do so by selecting, in consultation with an appropriate preprofessional advisor, the kind of curriculum that most soundly meets the standards set by the profession he or she wishes to enter.

Preprofessional Program: Medicine, Veterinary Medicine, 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) or a preprofessional advisor in the School of Natural Sciences.
In general, medical and dental schools recommend that the undergraduate degree program include: one year of general chemistry, one year of organic chemistry, one year of general biology, with additional course work in developmental biology and/or comparative anatomy and genetics, and one year of physics. Other courses, e.g., mathematics through calculus and physical chemistry, are often recommended as well.

Since preprofessional programs in dentistry and medicine place heavy emphasis in biology and chemistry, these are the two majors most often elected by preprofessional students. A preprofessional student majoring in biology should complete the biology core program, supported by courses in chemistry and physics, and should elect Mathematics 200 and Biology 342. A preprofessional student majoring in chemistry should complete the chemistry core program, supported by courses in mathematics and physics, and should elect Biology 342, 423 and 440.

The science and mathematics components of preprofessional programs in veterinary medicine are quite similar to those for medicine.

Admission to a school of pharmacy can also be gained after two years of undergraduate work. Although entrance requirements vary somewhat, they generally include full-year introductory courses in biology, chemistry, mathematics and physics. A course in organic chemistry is sometimes required as well.

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 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. However, students headed for law school are well advised to take a small number of selected liberal arts courses in subjects relevant to the law. Accordingly, the college offers a prelaw minor consisting of such courses. For further information concerning the prelaw minor, see Page 242.

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.

For these reasons, every prelaw student should carefully choose, with the aid of appropriate advisors, courses which sharpen the skills and sensitivities previously listed. Since no one major is mandatory, the student should select one which emphasizes the areas mentioned above (administration, economics, English, history, philosophy, political science and sociology to name a few). For additional information, the student should consult with the prelaw advisor and should be familiar with the Prelaw Handbook.

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.
Dr. Fred Newton,
1981–82 Outstanding Professor
California State College, San Bernardino currently offers graduate programs culminating in master's degrees in administration, biology, education, English composition, psychology and special major.

Graduate programs at the College are designed to serve a variety of needs. Some students pursue an advanced degree or a credential program in a professional area to enhance their career mobility; others, to expand their knowledge and understanding and to pursue research in a chosen discipline. The College provides for the part-time student, as well as the full-time student, by offering appropriate course work and research opportunities during the day, late afternoon and evening throughout the calendar year.

The School of Administration offers a Master of Business Administration (M.B.A.) and a Master of Public Administration (M.P.A.). Both degrees are broad programs designed to provide flexibility for the student to prepare for a career in administration in the private or public sector.

The M.S. in Biology provides further study in various biological concentrations. The unique environmental setting of the campus allows for special emphasis on desert and mountain ecological studies.

The M.A. in Education offers options in bilingual/cross-cultural education, counselor education, elementary and secondary education, English and history (for secondary teachers), special education, reading, school administration and vocational education. The School of Education also offers credential programs designed to prepare students to teach in a variety of settings. In addition to the multiple, single and designated subjects credentials, specialist and services credential programs also are available.

The Department of English offers an M.A. in English Composition. The program is designed for individuals interested in pursuing studies in the teaching of composition and is also of benefit to those who need expertise as writers of grants, interpreters of public policy, editors and the like.

The Department of Psychology offers an M.S. with an area of concentration in counseling, in addition to an M.A. degree.

An M.A. with a Special Major allows a student with unusual educational or vocational objectives to draw from several departments to meet a specific need. Information on this program is available from the Associate Dean of Graduate Studies.

Through its Office of Continuing Education, the College now offers an external Master of Arts degree in education in the Coachella Valley. The four options under this off-campus M.A. are elementary education, reading, school counseling and special education.

Latest details on the status of new programs may be obtained from the appropriate school or department or from the Graduate Studies Office.
General Requirements for Admission

The basic requirements for admission of postbaccalaureate and graduate students to the California State College, San Bernardino are determined by the Board of Trustees of The California State University and are stated in Title 5, Subchapter 3 of the California Administrative Code.

Specifically, a student admitted with unclassified postbaccalaureate standing must: (1) have earned an acceptable baccalaureate degree at an institution accredited by a regional accrediting association or have completed equivalent academic preparation, (2) have attained a grade-point average of at least 2.5 (on a five-point scale) in the last 60 semester units (90 quarter units) attempted, and (3) have been in good standing at the last college attended.

Applicants who do not qualify for admission under the provisions cited above may be admitted by special action if, on the basis of acceptable evidence, they are judged to possess sufficient academic, professional and other potential to merit such action. Petitions for admission by special action should be directed to the Associate Dean of Graduate Studies.

Categories of Admission

An applicant seeking admission to postbaccalaureate and/or graduate study at the College must be accepted in one of the following categories:

Unclassified Postbaccalaureate Standing. Students wishing to enroll in courses at the College with a professional growth objective, but not necessarily with an objective of a graduate degree or a teaching credential, may be considered for admission with unclassified postbaccalaureate standing when they meet standards specified under General Requirements. No more than 20 units of credit earned in unclassified standing may be used to demonstrate fitness to complete the program or may be counted toward meeting requirements for a graduate degree. Such units will be accepted only upon approval of the department in which the student is taking a degree. Admission to the College with unclassified postbaccalaureate standing does not constitute admission to graduate degree programs.

Classified Postbaccalaureate Standing (including Teaching Credentials). Students who have satisfied the general requirements for admission may be granted classified standing for the purpose of enrolling in a particular postbaccalaureate credential or certificate program. They must also satisfy such additional professional, personal, scholastic and other standards that are prescribed for the program.

Postbaccalaureate students interested in working toward a multiple subjects credential, a single subject credential, a services credential or a specialist credential must achieve classified standing. Credential candidates must have maintained a minimum 2.5 grade-point average in undergraduate course work in their major fields.

Conditionally Classified Graduate Standing. Students who have satisfied the general requirements for admission, but who have deficiencies in prerequisite preparation which can be met by specified additional preparation, including qualifying examinations, may be admitted to a graduate degree curriculum with conditionally classified graduate standing. These deficiencies must be corrected
in the specified manner in order for a student to continue in the graduate degree program.

**Classified Graduate Standing.** Students who have satisfied the general requirements for admission may be admitted to a graduate degree program as classified graduate students, if they satisfactorily meet the professional, personal, scholastic and other standards for admission to the program, including qualifying examinations, and if they have removed deficiencies in the specified manner while in conditionally classified graduate standing. Only those students who show promise of success and fitness will be admitted to graduate degree programs, and only those who continue to demonstrate a satisfactory level of scholastic competence and fitness shall be eligible to continue in such programs.

**Admissions Procedures**

1. All students, including graduating seniors from this College, who plan to enroll as postbaccalaureate or graduate students for the first time during any regular academic quarter (fall, winter or spring), must file a formal application for admission and a $25 nonrefundable application fee.

2. Former graduate students of the College must apply for readmission if: (a) they have been absent for more than two quarters (excluding summer sessions) immediately preceding the quarter for which readmission is sought, or (b) they have attended other colleges during their absences from California State College, San Bernardino. Students who have attended other colleges during their absences must submit official transcripts from those institutions. Students who have been absent for three quarters or more must again pay the $25 application fee. (Students in good standing may be readmitted to the College after an absence of two quarters by filing a returning student code sheet, available in the Admissions Office.)

3. Students who plan to complete all of their work for an advanced degree in summer sessions must still apply for classified standing and advancement to candidacy at the appropriate time; and to become classified, students must file a formal application for admission to the College.

Requests for information regarding admission to the fall, winter or spring quarters and all completed application materials should be directed to the Office of Admissions, California State College, San Bernardino; Attention: Graduate Admissions.

The College begins accepting applications from new and readmitted students on November 1 for the following fall quarter, June 1 for the following winter quarter and August 1 for the following spring quarter. Applicants for postbaccalaureate programs are limited to the choice of a single campus on each application. If postbaccalaureate applicants wish to be considered by more than one campus, they must submit separate applications and fees to each.

**Admission to the M.B.A. Program in Business Administration**

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A bachelor’s degree from an accredited college or university;

2. The following combination of grade-point average (GPA) and test score
on the Graduate Management Admission Test (GMAT): GMAT score plus 200 times GPA on the last 90 sequential quarter units (60 semester units) of course work (including postbaccalaureate course work) equals or exceeds 1020.

3. Submission of GMAT score by the deadline for that term; if test result is not submitted on time admission status will be unclassified postbaccalaureate;

4. Competence in the following prerequisite courses or their equivalents: Economics 305; Administration 220, 305, 330, 500, 503 and 504 (or Mathematics 504). Competence in the above prerequisite courses may be demonstrated by:
   a. Formal completion of the course or its equivalent,
   b. Credit by examination,
   c. Waiver based on specialized work experience; must have documentation of work directly related to course to be waived; and must be approved by the school's graduate committee. (Students requesting waiver of any prerequisite courses must petition the graduate committee of the School of Administration.)

5. Academic motivation and personal qualifications demonstrated through submission of a 200-250 word statement of reasons for wishing to pursue the M.B.A. at California State College, San Bernardino and personal qualifications that will contribute to successful completion of the program.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program.

Applicants who apply after the deadline for a particular term and meet all requirements for classified graduate standing may be admitted to conditionally classified standing. They will automatically be considered for classified graduate standing for the next regular academic term. Students in this category should contact the graduate program coordinator of the School of Administration for further information.

No more than 20 quarter units of course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student. There is no restriction on the number of quarter units of prerequisite courses that may be taken prior to advancement to classified status.

Admission to the M.P.A. Program in Public Administration

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A bachelor's degree from an accredited college or university;

2. The following combination of grade-point average (GPA) and test score on the GRE (Graduate Record Examination): GRE score plus 400 times GPA on the last 90 sequential quarter units (60 semester units) of course work (including postbaccalaureate course work) equals or exceeds 2100.

3. Submission of GRE score by the deadline for that term; if test result is not submitted on time admission status will be unclassified postbaccalaureate;
4. Competence in the following courses or their equivalents: Administration 210 or Mathematics 150 or Mathematics 350; Administration 220; Administration 302 or Administration 500; Economics 100 or Economics 305; Administration 306 or Administration 503; and Administration 575 (may be waived dependent upon related work experience). Competence in the above prerequisite courses may be demonstrated by:
   a. Formal completion of the course or its equivalent,
   b. Credit by examination,
   c. Waiver based on specialized work experience; must have documentation of work directly related to course to be waived; and must be approved by the school's graduate committee. (Students requesting waiver of any prerequisite courses must petition the graduate committee of the School of Administration.)

5. Academic motivation and personal qualifications that will contribute to successful completion of the program demonstrated through submission of a 200–250 word statement of reasons for wishing to pursue the M.P.A. at California State College, San Bernardino.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program.

Applicants who apply after the deadline for a particular term and meet all requirements for classified graduate standing may be admitted to conditionally classified standing. They will automatically be considered for classified graduate standing for the next regular academic term. Students in this category should contact the graduate program coordinator of the School of Administration for further information.

No more than 20 quarter units of course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student. There is no restriction on the number of quarter units of undergraduate work that may be taken prior to advancement to classified status.

Admission to M.S. Program in Biology

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college;
2. An undergraduate major in biology or associated fields (for example, microbiology, botany, zoology and chemistry);
3. Adequate preparation in chemistry at the college level, including courses in organic chemistry; quantitative analysis is recommended.
4. Two full-term courses in physics at the college level;
5. A minimum of one full-term course in mathematics at the college level.

Students who do not meet these criteria may be admitted as conditionally classified graduate students and will remain in this status until deficiencies have been removed.
Admission to M.A. Program in Education

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

In the bilingual/cross-cultural option:
1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education and in all bilingual/cross-cultural areas;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

In the counselor education option:
1. Completion of Education 531 with a grade of B (3.0) or better;
2. Three letters of recommendation from persons having knowledge of the applicant’s counseling potential, to be submitted before completion of Education 531;
3. Application form and self-disclosure statement, to be submitted before completion of Education 531.
4. A 3.0 GPA in all course work taken in education.

Students who do not meet all of the above criteria will be interviewed by at least two members of the counseling education faculty and may be admitted conditionally. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

In the elementary education option:
1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

In the reading option:
1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.
Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

In the school administration option:
1. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
2. A valid teaching credential or evidence of full-time teaching experience;  
   (NOTE: For the administrative services credential three years of full-time teaching is required; substitute teaching does not apply.)
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Normally, a student is expected to be working concurrently for a credential in school administration.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

In the secondary education option:
1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

In the History and English options for secondary teachers:
1. A valid teaching credential or teaching experience;
2. An undergraduate major in English or history;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the School of Education and the Department of English or History. No more than 20 quarter units may be used to demonstrate fitness to complete the program.
In the special education option:
1. A valid teaching credential or evidence of full-time teaching experience;
2. A 3.0 GPA in all course work taken in education;
3. Satisfactory completion of Education 530;
4. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

In the vocational education option:
1. A valid vocational teaching credential;
2. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarters units may be used to demonstrate fitness to complete the program.

Admission to M.A. Program in English Composition

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:
1. A baccalaureate degree with a major in English, or the following courses taken in conjunction with some other major: English 495; English 311 or 500 or 505; two courses from English 301, 302, 303; one course from English 120, 121, 140; English 475 or 476; one course from English 430, 432, 436; two courses from English 401, 403, 406, 409, 412, 415; one English elective.
2. A grade-point average of 3.0 in all upper-division English courses.

Unclassified postbaccalaureate students who have not fulfilled the above requirements may be admitted to the program as conditionally classified graduate students following review by the Department of English graduate committee.

To attain fully classified status, such students must satisfy conditions set by the Department of English Graduate Committee, usually including completion of at least 15 quarter units of appropriate course work at California State College, San Bernardino with a grade-point average of 3.0 or better.

Admission to M.A. Program in Psychology

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:
1. A baccalaureate degree with a major in psychology; or with any other undergraduate major, (a) score at least at the 50th percentile on the GRE advanced test in psychology or (b) satisfy the Graduate Admissions Committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
2. A cumulative undergraduate grade-point average of at least 2.5 overall and at least 3.0 in the major;
3. A brief statement describing preparation for graduate study, the goals of graduate study and professional aspirations, to be submitted to the department;
4. Three letters of recommendation, at least two from former professors. Letters should come directly from the writers or be included in a placement file. (It is the applicant’s responsibility to determine if letters have been received.)

Students who meet the general requirements of the College for admission to graduate study but who do not meet the Psychology Department’s specific requirements for admission to classified status or who wish to take course work prior to spring quarter consideration of their application for classified status, may be admitted to the College in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.

**Admission to M.S. Program in Psychology**

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A minimum cumulative undergraduate grade-point average of at least 2.5 overall and at least 3.0 in the major;
2. A baccalaureate degree with a major in psychology; or
   - one of the following two:
     a. A baccalaureate degree in a major other than psychology and achievement of at least at the 50th percentile on the GRE advanced test in psychology;
     b. A baccalaureate degree in a major other than psychology, including a course of study judged, by the Psychology Department Graduate Admissions Committee, to be satisfactory preparation for graduate study in psychology.
3. A brief statement (one or two typewritten pages) of the student’s preparation for graduate study, goals in a graduate training program and professional aspirations following receipt of the master’s degree, to be submitted to the department graduate admissions committee;
4. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student’s likely success in a graduate psychology program. At least two of these letters should be from former professors who are familiar with the student’s scholarly activities.

Students who meet the general requirements of the College for admission to graduate study but who do not meet the Psychology Department’s specific requirements for admission to classified status or who wish to take course work prior to spring quarter consideration of their application for classified status, may be admitted to the College in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.
Admission to M.A. Program with a Special Major

Occasionally, graduate students may have special needs relating to educational and/or vocational objectives which existing M.A. degree programs of the College may not adequately meet. In such cases, the interdisciplinary Special M.A. degree may be more appropriate to their needs.

This program is designed by the student in consultation with the Associate Dean of Graduate Studies and three faculty members. The three faculty members then comprise the student's faculty committee. The faculty committee members are usually selected from more than one academic discipline.

The Special Major proposal must be submitted on forms available from the Graduate Studies Office to the College Committee on Graduate Education for approval.

In addition to the general requirements of the College, some requirements for this interdisciplinary proposal are:

1. The program of courses must not significantly duplicate any existing degree program on this campus or on any other state college or university campus.
2. The program of study must include a minimum of 45 quarter units of course work.
3. Not less than 25 units shall be in 600-level courses.
4. At least 32 quarter units in the student's program must be completed in residence.
5. The program must include a synthesizing experience (comprehensive examination, project or thesis). If the thesis is chosen, only nine units may be taken in the thesis course.

If approval is recommended by the Committee on Graduate Education, the student is formally admitted into the program in either conditionally classified or classified status.

For further information concerning the Master of Arts degree with Special Major, contact the Associate Dean of Graduate Studies.

Graduate Bulletin

Complete details on requirements for admission to the existing programs, advancement to candidacy, requirements for graduation and credential program requirements are listed in the Graduate Bulletin, a separate publication available without charge from the Office of Academic Planning or any department offering a master's program. General information about graduate work at this College may be secured from the Office of Academic Planning. Specific details about a particular master's degree program are available from the department or school involved.
Serrano Village
John Houseman, right, Ken DeCroo, below, appear on campus.
CERTIFICATE PROGRAMS

The College offers several programs leading to a certificate of competency in a special area. Certificates may be earned by regularly matriculated or continuing education students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or (b) produce mastery of the content of a sub-field of an academic major (discipline); or (c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Courses offered for the certificate may be the same ones used to satisfy major, minor, credential or general education requirements. In order to qualify for a certificate, candidates must earn a grade-point average of 2.0 or better in applicable course work. Standards for individual programs may exceed this minimum. Candidates must also receive two-thirds of their certificate-applicable credit from the College. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

The certificate is awarded upon confirmation that the requirements for that program have been satisfied. The candidate is responsible for filing an application with the Office of Admission and Records for granting of the certificate, no later than the last term of certificate-applicable study, and for notifying the coordinator of the certificate program of completion of required course work. Award of the certificate will be noted on the student’s transcript.

Certificate in Accounting

(Administration Building, Room 135, 887-7711)

The requirements for a Certificate in Accounting are a minimum of 30 units distributed as follows:

Administration 306. Concepts of Accounting
*Administration 340. Managerial Accounting

or

*Administration 344. Cost Accounting Fundamentals

†Administration 372. Intermediate Accounting

*Administration 373. Problem Areas in Intermediate Accounting

Plus two of the following electives chosen in consultation with an advisor:

*Administration 343. Studies in Managerial Accounting
*Administration 345. Cost Accounting and Control
*Administration 374. Reporting Issues in Intermediate Accounting
*Administration 426. Federal Taxation: Individuals
*Administration 427. Federal Taxation: Corporations and Fiduciaries
*Administration 428. Accounting for Combined Corporate Entities
*Administration 430. Financial Policies and Systems
Certificate Programs

*Administration 438. Auditing
*Administration 445. Accounting Systems Management
*Administration 568. Governmental Financial Management and Accounting
*Administration 569. Theory and Practice of Internal Auditing

*Course has a prerequisite
†Placement test required

Certificate in Applied Gerontology
(Sociology Department, Administration Building, Room 183, 887-7224)

The requirements for a Certificate in Applied Gerontology consist of the following:

- Health Science 423. Health Aspects of Aging
- Psychology 329. Psychology of Adulthood and Aging
- Sociology 330. Social Gerontology

Plus 15 units of elective courses. These courses may be either in the Natural Science option or in the Social Science option and must be selected with the approval of the advisor.

Natural Science Electives

- Biology 222. Human Anatomy and Physiology
- Biology 314. Biology of Human Sexuality
- Biology 315. Introduction to Human Embryology
- Biology 316. Genetics of Man
- Health Science 336. Drug and Alcohol Use and Abuse
- Health Science 340. Diseases of Man
- Health Science 351. Foods, Nutrition and Health
- Health Science 356. Housing and Institutions
- Health Science 361. Principles of Accident Prevention
- Health Science 362. Principles of Nutrition
- Health Science 370. Diet and Disease
- Health Science 371. Organization and Function of Community Health Services
- Health Science 374. Basic Audiometry and Hearing Problems
- Health Science 440. Family Health
- Health Science 474. Advanced Audiometry

Social Science Electives

- Anthropology 530. Anthropology of Human Development
- Psychology 578. Advanced Topics in Psychology
- Psychology 580. Advanced Seminar in Psychology: Death and Dying
- Psychology 595. Independent Study
- Sociology 434. Community Organization
- Sociology 530. Advanced Seminar in the Sociology of Aging
- Sociology 555. Independent Study

* Course has a prerequisite

Certificate in Bilingual/Cross-cultural Studies: Spanish/English
(Office of Academic Planning, Administration Building, Room 196, 887-7521)

The requirements for a Certificate in Bilingual/Cross-cultural Studies: Spanish/
English consist of the following:

- Spanish 101. College Spanish I or equivalent
- *Spanish 102. College Spanish II or equivalent
- *Spanish 103. College Spanish III or equivalent
- Psychology 347. Psychological Development of the Chicano
- History 391. Chicano History

Three additional courses to be selected from:

- Anthropology 354. Cultures of Mexico and Central America
- Humanities 460. Culture Studies: Mexico
- History 390. History of Mexico
- Political Science 351. The Chicano and Politics
- *Sociology 342. The Chicano Family
- *Spanish 440. Mexican Literature
- Foreign Languages 450. Mexican Literature in Translation
- Education 536. Teaching the Culturally Different
- Art 328. Mexican Art
- Art 329. Chicano Art
- Music 351. Mexican and Chicano Music

*Course has a prerequisite

**Certificate in Business Skills for the Artist**

(Art Department, Visual Arts Building, Room 123, 887-7459)

The requirements for the Certificate in Business Skills for the Artist are 30 quarter units distributed as follows:

- Administration 305. Marketing Principles
- Administration 306. Concepts of Accounting
- *Administration 442. Small Business Management

Plus 15 units of upper-division studio art selected in consultation with an advisor.

* Course has a prerequisite

**Certificate in Community Mental Health**

(Department of Health Science and Human Ecology, Physical Sciences Building, Room 119, 887-7348)

The requirements for the Certificate in Community Mental Health are 30 quarter units distributed as follows:

- Health Science 371. Organization and Function of Community Health Services
- Health Science 421. Community Mental Health
- *Psychology 387. Community Psychology
- *Psychology 390. Abnormal Psychology

Plus 10 units chosen from the following in consultation with an advisor:

- Health Science 336. Drug and Alcohol Use and Abuse
- *Health Science 337. Special Topics in Drug and Alcohol Use
- *Health Science 399. Community Service Project
- Health Science 423. Health Aspects of Aging
Health Science 435. Child and Youth Development: Health Aspects
Health Science 451. Principles of Epidemiology
Health Science 470. Health Behavior and Community Health Education
*Health Science 492A. Field Study: Action/Research in Human Ecology and Health

*Psychology 201. Developmental Psychology
*Psychology 315. Helping Processes
*Psychology 329. Psychology of Adulthood and Aging
*Psychology 333. Drugs and Behavior
*Psychology 351. Behavior Modification: Principles and Applications
*Psychology 384. Personality and Social Development
*Psychology 385. Personality
*Psychology 391. Psychopathology of Childhood
*Psychology 490. Counseling Psychology
*Sociology 355. Medical Sociology
*Sociology 356. Sociology of Mental Illness

*Course has a prerequisite

Certificate in Computers and Programming
(School of Natural Sciences, Biological Sciences Building, Room 130, 887-7341)

The requirements for a Certificate in Computers and Programming consist of the following:

Computer Science 120. Introduction to Computing
Computer Science 131. Computer Programming I

or

Computer Science 135. Introduction to BASIC Programming
Computer Science 140. Introduction to FORTRAN Programming

or

*Computer Science 240. FORTRAN Programming
*Computer Science 250. COBOL Programming

or

*Computer Science 260. Assembly Language Programming
*Computer Science 310. Computer System Organization I
*Computer Science 311. Computer System Organization II
*Computer Science 330. Data Structures and Algorithms I

*Course has a prerequisite

Certificate in Criminal Justice
(Department of Sociology, Administration Building, Room 183, 887-7224)

The requirements for a Certificate in Criminal Justice consist of the following:

Criminal Justice 101. Introduction to Criminal Justice I
Criminal Justice 102. Introduction to Criminal Justice II
Criminal Justice 103. Critical Issues in Criminal Justice

or

*Sociology 352. Juvenile Offender
*Sociology 350. Criminology
*Sociology 357. Sociology of Law Enforcement
or
*Sociology 358. Sociology of Punishment and Corrections
*Sociology 359. Law and Society
Criminal Justice 300A. Criminal Justice Administration: Police Administration
or
Criminal Justice 300C. Criminal Justice Administration: Correctional Administration

*Course has a prerequisite

Certificate in Education of the Gifted and Talented
(School of Education, Library-Classroom Building, Room 238, 887-7788)
The requirements for a Certificate in Education of the Gifted and Talented consist of the following:
*Education 538. Introduction to Teaching the Gifted and Talented
*Education 539. Programs for Teaching the Gifted and Talented
†*Education 630. Topics in Research in Teaching and Learning: Education of the Gifted and Talented
†*Education 679F. Field Work: Education of the Gifted and Talented
*Course has a prerequisite
†Course is open to postbaccalaureate and graduate students only

Certificate in Educational Technology
(School of Education, Library-Classroom Building, Room 87, 887-7296)
The requirements for a Certificate in Educational Technology consist of the following:
Education 544. Construction of Instructional Materials
*Education 546. Microcomputers in Education
*Education 547. Educational Technology
*Education 548. Seminar in Instructional Design

Plus 10 additional units to be chosen from the following courses:
Art 303. Design Studies
Art 386. Audio and Video Media
Computer Science 135. Introduction to BASIC Programming
†Education 641. Media and Strategies in Teaching
English 370. Theory and Practice of Newspaper Journalism
Music 519. Audio Production
Theatre Arts 420. Techniques of Mass Communication
Theatre Arts 515. Communication Theory
*Course has a prerequisite
†Course is open to postbaccalaureate and graduate students only

Certificate in Financial Management
(Department of Business Administration, Administration Building, Room 135, 887-7711)
The requirements for a Certificate in Financial Management are a minimum of 30 units distributed as follows:
Certificate Programs

*Administration 303. Financial Theory
  Administration 306. Concepts of Accounting
*Administration 430. Financial Policies and Systems
*Administration 435. Investment Analysis

Plus two of the following electives chosen in consultation with an advisor:

*Administration 340. Managerial Accounting
†*Administration 372. Intermediate Accounting
*Administration 373. Problem Areas in Intermediate Accounting
*Administration 426. Federal Taxation: Individuals
*Economics 410. Money and Banking
*Economics 475. Public Finance

*Course has a prerequisite
†Placement test required

Certificate for French/English and English/French Translators
(Department of Foreign Languages, Library-Classroom Building, Room 266C, 887-7445.)

The requirements for a Certificate for French/English and English/French Translators are proficiency in French equal to that of French 103 or its equivalent ** and completion of the following courses with a GPA of 2.7 or better.

*French 200. Conversation and Composition
*French 302. Advanced French Composition
*French 309. French for Translators (A, B and C for a total of 15 units)
*English 495. Expository Writing
  Humanities 460. Culture Studies: France

* Course has a prerequisite
** Entering students with previous training in French, and those who are native speakers, should contact the department for information about advanced placement and credit by examination.

Certificate for German/English and English/German Translators
(Department of Foreign Languages, Library-Classroom Building, Room 266C, 887-7445.)

The requirements for a Certificate for German/English and English/German Translators are proficiency in German equal to that of German 103 or its equivalent ** and completion of the following courses with a GPA of 2.7 or better.

*German 202. German Conversation
*German 308. Readings in German Literature
*German 309. Advanced German Composition
*German 312. Practical Translation
*German 313. Technical and Scientific Translation
*English 495. Expository Writing
  Humanities 460. Culture Studies: Germany

* Course has a prerequisite
** Entering students with previous training in German, and those who are native speakers, should contact the department for information about advanced placement and credit by examination.
Certificate in Health Services Administration and Planning

(Department of Health Science and Human Ecology, Physical Sciences Building, Room 119, 887-7348)

The requirements for a Certificate in Health Services Administration and Planning consist of the following:

- Administration 301. Management Practices
- Administration 306. Concepts of Accounting
- Health Science 371. Organization and Function of Community Health Services
- *Health Science 415. Medical Care Organizations
- *Health Science 422. Health Planning
- *Health Science 427. Hospital Administration
- *Health Science 455. Organization and Management of Long-Term Care Facilities

* Course has a prerequisite

Certificate in Human Resources Management

(Department of Business Administration, Administration Building, Room 135, 887-7711)

The requirements for a Certificate in Human Resources Management are a minimum of 30 units distributed as follows:

- Administration 302. Human Behavior in Organizations
- *Administration 455. Human Resources Management
- *Administration 457. Industrial and Labor Relations
- Plus two of the following electives chosen in consultation with an advisor:
  - Administration 350. Administrative Communications
  - *Administration 355. Management of Administrative Conflict
  - *Administration 402. Studies in Organizational Behavior
  - *Administration 451. Organization and Management Theory
  - *Administration 456. Psychology of Human Resources
  - *Administration 462. Human Factors Design
  - *Administration 485. Women in Administration
  - *Administration 551. Organizational Behavior Modification
  - *Administration 557. Public Sector Labor Relations
  - *Administration 562. Public Personnel Administration

* Course has a prerequisite

Certificate in International Relations

(Political Science Department, Administration Building, Room 130, 887-7238)

The requirements for a Certificate in International Relations consist of six of the following, with no more than four from any one discipline:

- Political Science 300. Western Political Systems
- Political Science 304. Communist Political Systems
- Political Science 306. Developing Political Systems
- Political Science 325. American Foreign Policy
- Political Science 400. International Politics
Certificate Programs

Political Science 484. International Security and Defense Strategy
Political Science 500. International Law
Political Science 510. International Organization
Political Science 590. Seminar in International Relations
Social Sciences 300. Nonwestern World
*Economics 420. Comparative Economic Systems
*Economics 430. International Economics
Economics 450. Economic Development
Administration 470. Management of International Operations
History 556. Foreign Relations of the United States

*Course has a prerequisite

Certificate in Marketing Management

(Department of Business Administration, Administration Building, Room 135, 887-7711)

The requirements for a Certificate in Marketing Management are a minimum of 30 units distributed as follows:

Administration 305. Marketing Principles
*Administration 410. Consumer Behavior
*Administration 441. Techniques for Marketing

Plus three of the following electives chosen in consultation with an advisor:

*Administration 411. Retailing
*Administration 412. Advertising
*Administration 414. Sales Management
*Administration 440. Marketing Research
*Administration 442. Small Business Management
Administration 470. Management of International Operations
*Administration 530. Business and Society
*Economics 302. Intermediate Microeconomics
Geography 420. Geography of Economic Activity
* Course has a prerequisite

Certificate in Occupational Safety and Health

(Department of Health Science and Human Ecology, Physical Sciences Building, Room 119, 887-7348)

The requirements for a Certificate in Occupational Safety and Health consist of the following:

*Health Science 352. Environmental Health I
*Health Science 353. Environmental Health II (or other course selected in consultation with an advisor)
Health Science 361. Principles of Accident Prevention
Health Science 366. Occupational Health and the Work Environment
Health Science 381. Occupational Safety
*Health Science 410. Toxicology
Health Science 425. Hearing Conservation and Noise Measurement
*Health Science 476. Industrial Hygiene (or other course selected in consultation with an advisor)

* Course has a prerequisite
Certificate in Paralegal Studies
(Political Science Department, Administration Building, Room 130, 887-7238)

The requirements for a Certificate in Paralegal Studies consist of 55 units of which 40 are to be chosen from the following:

Paralegal Studies 370. Wills, Estates and Trusts
Paralegal Studies 371. Contract Law
Paralegal Studies 372. Tort Law
Paralegal Studies 373. Property Law
Paralegal Studies 376. Family Law and Community Property
Paralegal Studies 377. Trial Practice
Paralegal Studies 378. Corporate Law
Paralegal Studies 379. Environmental Law
Paralegal Studies 385. Legal Research and Writing

15 additional units to be selected from:

Political Science 328. Judicial Process
Political Science 410. American Constitutional Law
Political Science 411. The Bill of Rights
*Political Science 535. Seminar in Constitutional Law
*Sociology 359. Law and Society
*History 540. Constitutional History of the United States
Philosophy 465. Philosophy of Law
Administration 330. Legal Environment of Business

*Course has a prerequisite

Students are strongly advised to take Paralegal Studies 385 in the first quarter of the program as it provides an introduction to legal language.

Certificate in Religious Studies
(Philosophy Department, Library-Classroom Building, Room 266C, 887-7469)

The requirements for a Certificate in Religious Studies consist of 30 units to be chosen from the following:

History 395. Topics in History: Great Religions of the World
Humanities 496. Selected Topics in Humanities: The Death of God
Philosophy 450. Man’s Search for God or Gods
Philosophy 452. Classics of Eastern Thought
*Sociology 380. Sociology of Religion
Anthropology 480. Magic, Religion and Science
English 315. Studies in Literary Genres: The Bible as Literature
English 333. Myth and Epic

*Course has a prerequisite

Certificate in Social Work
(Department of Sociology, Administration Building, Room 183, 887-7224)

The requirements for a Certificate in Social Work consist of the following:

Sociology 100. The Study of Society
*Sociology 318. Social Welfare Policies and Services
*Sociology 339. Socialization

or
*Sociology 480. Human Growth and Social Environment
*Sociology 434. Community Organization
*Sociology 436. Group Dynamics
*Sociology 484. Social Casework
†Sociology 575. Internship in Sociology and Social Work (2 quarters—10 units)

* Course has a prerequisite
† Internship will be waived for those having one year of social work experience in a social agency.

Certificate in Spanish for Public Services

(Department of Foreign Languages, Library-Classroom Building, Room 266C, 887-7445.)

The requirements for a Certificate in Spanish for Public Services are proficiency in Spanish equal to that of Spanish 103 or its equivalent** and completion of the following courses:
*Spanish 202. Grammar and Composition
*Spanish 302. Theory and Practice in Composition
*Spanish 312. Techniques for Professional Interpreting and Translating in Spanish
*Spanish 314. Advanced Conversation
*Spanish 316. Spanish in Communication Media

Plus one additional course to be selected from:
*Spanish 400. Masterpieces in Spanish and Spanish American Literature
*Spanish 440. Mexican Literature
*Spanish 514. Seminar in Hispanic Language, Literature or Civilization

* Course has a prerequisite
** Entering students with previous training in Spanish, and those who are native speakers, should contact the department for information about advanced placement and credit by examination.

Certificate in Women's Studies

(Psychology Department Office, Physical Sciences Building, Room 219, 887-7226)

The requirements for a Certificate in Women's Studies consist of 30 units chosen from the following courses:
*Administration 485. Women in Administration
*Biology 314. Biology of Human Sexuality
History 513. Women in U.S. History
Philosophy 357. Philosophy and Sexual Politics
Political Science 340. Sex and Politics
*Psychology 331. The Psychology of Women
*Sociology 344. Sex Roles: The Life Cycle
*Sociology 346. Sex Roles: Inequality

and from
a variety of seminar courses such as Women in Art, Drama, and Literature and from certain 800-level extension course offerings, with no more than 15 units being taken at the 800 level

*Course has a prerequisite

Certificate in Writing

(English Department, Library-Classroom Building, Room 248, 887-7446)

The requirements for a Certificate in Writing consist of 30 units of the following courses selected in consultation with an English department advisor:

- English 311. The English Language
- English 313. Introduction to Creative Writing
- English 370. Theory and Practice of Newspaper Journalism
- English 495. Expository Writing
- English 500. Grammar and Linguistics
- English 505. History of the English Language
- English 513. Advanced Creative Writing

*Course has a prerequisite
CONTINUING EDUCATION

The term Continuing Education denotes a variety of courses, programs, activities and events through which the services and resources of the College are made available to a broad, general audience and are brought to bear on immediate issues and interests of the larger community of which the College is a part.

Responding to diverse educational needs of residents of its two-county service area, the College undertakes to develop opportunities for those seeking personal growth and fulfillment, for those pursuing professional renewal and advancement, for others aspiring to resume an education that has been interrupted or is incomplete, and for still others whose personal experience or community situation dictates an organized effort to understand and affect the conditions of modern urban life.

The California State University regards its extended education credit-bearing programs as integral parts of the institution. These programs are viewed as extensions of the College’s educational services and are in concert with its overall mission and purpose. The programs and courses in extended education are expected to meet the standards of quality which the institution sets for its other programs and courses, in terms of resources, faculty, level of instruction, evaluation and support services.

Extension Study and Credits

Extension offerings include both courses selected from the established curriculum and new courses designed to meet current needs and desires expressed by groups, professions and communities.

The College has a plan which also opens classes offered in the regular program of the College to extension students, answering the needs of those who wish to take a specific course or two, but do not want to matriculate to do so. These registrations are handled in the Office of Continuing Education and are accommodated on an individual, space-available basis. Credits earned are degree-applicable but do not carry residence credit.

A maximum of 36 quarter units of degree-applicable credit earned through extension may be applied to a baccalaureate degree program. A maximum of 13 quarter units of graduate degree-applicable credit earned through extension may be accepted toward a master’s degree program.

Credits earned in courses offered only through extension and numbered in the 800-series are not degree-applicable though they may satisfy salary hurdle, credential, re-licensure or similar professional requirements, or serve for personal growth.

Only those credits will be accepted for transfer which are acceptable toward a degree or credential at the institution offering the courses.
Individuals interested in the extension program may be placed upon the mailing list for regular announcements of courses by contacting the Office of Continuing Education.

Summer and Special Sessions

Summer and special sessions afford both regular and non-matriculated students opportunity to pursue undergraduate or graduate study in virtually all of the College’s academic majors and in professional programs.

There is no prior application required nor are there formal procedures for admission to summer or special sessions. Course credits earned in the summer denote residence credit and are accepted toward degree programs on campus when students matriculate in the College.

Announcement of the summer programs is made in early spring each year. The calendar and schedule of classes may be obtained without charge from the Office of Continuing Education.

External Degree Programs

Recent establishment in the California State University and Colleges of procedures for developing, implementing and evaluating external degree programs means that as need and demand warrant, complete upper-division curricula can be offered at sites distant from the College.

The guidelines imply careful articulation with community colleges in planning degree programs in a limited number of major fields. Classes of at least 25 to 35 students are essential since external degree programs are required to be self-supporting from fees, as extension long has been. For approved programs, usual residence requirements are waived enabling students who complete the prescribed sequence of courses to earn the baccalaureate degree wholly through off-campus study.

The College presently offers the following external degree programs in the Coachella Valley: M.A. in Education (elementary education, school counseling, reading and special education options) and a B.A. in Liberal Studies. Information on new or upcoming programs available in a specific area may be obtained by contacting the Office of Continuing Education.

Inservice Education

Within this scope of activity, the office provides consulting services, training development programs, educational components for grants, needs assessment and curriculum planning for organizations. The staff also initiates, co-sponsors or coordinates a variety of conferences, workshops and seminars each year on behalf of various professional and special interest groups.

Open College

Many of the College’s regular courses are open to nonmatriculated students through extension under a program called Open College. CSCSB extension students who meet the prerequisites may enroll in regular on-campus courses
on a space-available basis. Students in Open College courses will receive extension credit for the courses rather than regular residence credit and will be subject to extension regulations regarding fees, refunds, grading and transcripts. Up to 36 units of extension credit earned in this manner may be applied to a bachelor's degree and 13 units of graduate credit may be similarly applied if a student is admitted to an appropriate graduate program.

Students who desire to enroll in CSCSB's Open College classes are required to secure a permit from the Office of Continuing Education and obtain approval of the instructor.

Information about availability of specific courses may be secured from the Office of Continuing Education.
THE CURRICULUM

Schools of the College

The academic program of the College is offered through five schools—Administration, Education, Humanities, Natural Sciences and Social and Behavioral Sciences—organized into departments, listed below:

**Administration**
- Business Administration
- Public Administration

**Education**
- Special Programs
- Teacher Education

**Humanities**
- Art
- English
- Foreign Languages
- Music
- Philosophy
- Theatre Arts

**Natural Sciences**
- Biology
- Chemistry
- Health Science
- Mathematics
- Nursing
- Physics
- Physical Education and Recreation

**Social and Behavioral Sciences**
- Anthropology
- Economics
- Geography
- History
- Political Science
- Psychology
- Sociology

Degree programs are offered by departments, schools and interdisciplinary committees. A complete listing of the degrees available at the College may be found on Pages 20 and 21.

**Course Numbering System**

1–99  Nondegree-applicable credit.

100–299 Lower-division courses designed primarily for freshmen and sophomores. Graduate credit is not allowed.

300–599 Upper-division courses of junior and senior level; graduate credit may be awarded if course is accepted in a specific graduate program.

600–699 Courses for postbaccalaureate and graduate students only. May not be taken by undergraduates.

X800–X899 Courses offered through extension only. Credit not degree applicable.

IP100–IP699 Courses taken by students in the International Programs.

e300–e699 Credit earned in a continuing education program for residence credit pursuant to an external degree program.
Course Credits

Most courses at California State College, San Bernardino carry five quarter units of credit; some carry six units; some 2½ units; and a few variable credit. Course credits are indicated in the course descriptions in this Bulletin. For purposes of comparison with other colleges, a five quarter-hour course is equivalent to a 3½ semester-hour course.
The School of Administration offers a major in administration designed to prepare students for careers in business, government service, institutions and related fields.

The administration curriculum reflects the view that the concepts, philosophies and methodologies of modern administrative science, though traditionally studied in the context of business enterprise, have applicability to large-scale organizations generally. This curriculum, with its core requirements and areas of specialization, provides the student with a broad-based behavioral and quantitative understanding of the concepts of management. The managerial function and decision-making processes are studied with coverage in methods of analysis of quantitative information; judgment and appraisal of social, economic and human relations issues; and effective communication.

Areas of commonality among various public and private systems of institutional management constitute the core material of the administration major, while variations which distinguish management practices in different functional areas are subjects for optional specialization.

Inquire at the School of Administration Office, Administration Building, Room 142 (Telephone 887-7531) for further information about the administration program and academic advising and counseling.

Requirements for the bachelor of arts degree: Economics 100 and 102; Mathematics 110 or 120; Administration 210 or Mathematics 150 or 350 or equivalent; Administration 220, 301, 302, 303*, 304, 305*, 306, 330 and 490*. In addition, each student must complete one of the six concentrations indicated below plus the indicated number of concentration electives.

* For public administration concentration, students should substitute Economics 475 for Administration 303; Administration 307 for Administration 305, and Political Science 428 for Administration 490.

The concentration electives may be chosen from the electives listed for each concentration or, with the prior approval of the department chair, the student may substitute other courses for these electives. Up to two of the concentration electives may be chosen from other academic disciplines with prior approval. Students in planning their career goals should review course offerings of other departments to determine if specific courses fit their career plans.

Accounting: Administration 344, 345, 372, 373 and two electives chosen from Administration 343, 374, 426, 427, 428, 430, 438, 445, 568, 569, 575

Finance: Administration 340, 430, 432, 435 and two electives chosen from Administration 372, 420, 426, 442, 575, Economics 410, 475

Management: Administration 350 or 485, 451, 455 and three additional courses chosen with advisor's approval.
Management Science: Administration 360, 400, 420, 421, 465 and one elective chosen from Administration 440, 460, Economics 490
Marketing: Administration 410, 440, 441 and three electives chosen from Administration 411, 412, 414, 442, 470, 530, Economics 302, Geography 420
Public Administration: Administration 380 (or Political Science 380), 480, 562, 563 and 10 units of electives chosen with advisor’s approval

Requirements for the bachelor of science degree (accounting concentration): Economics 100 and 102; Mathematics 110 or 120; Administration 210 or Mathematics 150 or 350; Administration 220, 301, 302, 303, 304, 305, 306, 330, 344, 345, 372, 373, 420 and 490. In addition, students must complete one of four speciality areas indicated below and the specified number of electives:

Public Accounting: Administration 374, 426, 438 and one elective chosen from Administration 427, 428, 444, 568, 575
Management Accounting: Administration 400, 430, 445 and one elective chosen from Administration 343, 360, 465, 569, 575
Internal Auditing: Administration 438, 445, 569 and one elective chosen from Administration 343, 374, 426, 568, 575
Administrative Data Processing: Administration 400, 421, Computer Science 250 and one elective chosen from Administration 360, 438, 465, 569, 575

With the prior approval of the department chair, the student may substitute courses from other academic disciplines for these electives. Students in planning their career goals should review course offerings of other departments to determine if specific courses fit their career plans.

Requirements for the bachelor of science degree (management science concentration): Economics 100 and 102; Mathematics 110 or 120; Administration 210 or Mathematics 150 or 350; Administration 220, 301, 302, 303, 304, 305, 306, 330, 360, 400, 420, 421, 460, 465 and 490; Economics 490; Computer Science 140; plus one of the following electives: Administration 345, 435, 440; Economics 480; Computer Science 250; Mathematics 350.

With the prior approval of the department chair, the student may substitute courses from other academic disciplines for these electives. Students in planning their career goals should review course offerings of other departments to determine if specific courses fit their career plans.

Transfer students who have completed a lower-division introductory sequence in accounting will have met the upper-division requirement of Administration 306.

Requirements for the minor in business administration: Economics 102; Administration 220, 301 or 302, 303, 305 and 306.

Requirements for the minor in public administration: Economics 102, Administration 302, 380 (or Political Science 380), 480, 562, 563 and Economics 475.

Master of Business Administration and Master of Public Administration Degrees: Details of these programs are outlined in the Graduate Bulletin. The programs are open to both full-time and part-time students and generally require the equivalent of one year’s full-time work for completion (45 units of graduate work including a comprehensive examination for a M.B.A., or a research project for a M.P.A.).

Certificate Programs: The School of Administration offers certificate programs for students who are interested in course work in a specific field, but not
necessarily a degree. Currently available are certificates in: accounting, financial management, human resources management and marketing management. Details on the certificate programs and course requirements for each are found in the section Certificate Programs, Page 89.

210. APPLIED BUSINESS STATISTICS
An introduction to statistical reasoning and application of primary statistical techniques used in solving managerial problems. Covers both descriptive and inferential statistics. (5 units)

220. FUNDAMENTALS OF BUSINESS DATA PROCESSING
Introduction to business data processing for students with no previous background. Fundamental principles of business data processing utilizing illustrative cases of business applications. (5 units)

301. MANAGEMENT PRACTICES
Application of systems approach to business activities, with emphasis on planning, production and control. Process of management is discussed as it affects operations. Emphasis on principles and relationships rather than specific techniques. (5 units)

302. HUMAN BEHAVIOR IN ORGANIZATIONS
Behavior of people in relation to managerial environment and the functional fields of administration. Selected behavioral concepts analyzed with respect to applications in management. (5 units)

303. FINANCIAL THEORY
Basic principles of financial analysis for management. Techniques of financial decision-making for liquidity management, financial forecasting, dividend policy and selection of sources of capital. Prerequisite: Administration 306. (5 units)

304. QUANTITATIVE ANALYSIS FOR MANAGEMENT
Introduction to mathematical tools used in administrative problem analysis. Emphasis is on the application of deterministic and stochastic models to managerial decision making. Prerequisite: Mathematics 110 or 120. (5 units)

305. MARKETING PRINCIPLES
Marketing functions including products, channels, pricing and promotion. (5 units)

306. CONCEPTS OF ACCOUNTING
Development and use of basic accounting information for management analysis, decision-making, planning and control relating to operations. (5 units)

307. PUBLIC RELATIONS IN THE PUBLIC SECTOR
Public relations as an inherent aspect of management in the public sector. Problems and techniques of administration of programs to manage and improve public relations. (5 units)

321. PRINCIPLES OF PLANNING
Introduction to local and regional community planning; includes methods of adoption and interorganizational relationships. (5 units)

330. LEGAL ENVIRONMENT OF BUSINESS
Study of the legal system; nature and source of law as applied to business activity; statutes and significant cases involving business policies; effect of public policies on private enterprise system. (5 units)

340. MANAGERIAL ACCOUNTING
Accounting information systems used by management. May not be counted toward fulfilling requirements of the accounting concentrations. Prerequisite: Administration 306. (5 units)
343. STUDIES IN MANAGERIAL ACCOUNTING
Intensive study of selected topics relating to current problems and areas of controversy in managerial accounting. Prerequisite: Administration 340 or 344. (5 units)

344. COST ACCOUNTING FUNDAMENTALS
Cost accounting concepts, objectives and systems. Prerequisite: Administration 306. (5 units)

345. COST ACCOUNTING AND CONTROL
Theories and practice relating to cost accumulation and analysis for management planning and control. Prerequisites: Administration 304 and 344, or equivalents. (5 units)

350. ADMINISTRATIVE COMMUNICATIONS
Introduction to communication theory. Concepts, analysis and methods of improvement for interpersonal communication, communication within organizations and communication between organizations and their external environments. (5 units)

355. MANAGEMENT OF ADMINISTRATIVE CONFLICT
Emphasis on development of conflict, theories of administrative conflict and methods of resolving such conflict. Prerequisites: Administration 301 and 302. (5 units)

360. STATISTICAL ANALYSIS FOR MANAGEMENT
Application of probabilistic models and statistical decision theory to decision-making within the enterprise; techniques for optimization of administrative decisions. Prerequisites: Administration 304; and one of the following: Administration 210, Mathematics 150 or 350. (5 units)

372. INTERMEDIATE ACCOUNTING
In-depth study of the fundamentals of accounting and their applications to the short-term segments of the statement of financial position. Includes study of pronouncements of professional accounting organizations and the Securities and Exchange Commission. Prerequisites: Administration 306 and successful completion of the intermediate accounting placement test. Students may petition if they are unable to take, or if they fail, the placement test. (5 units)

373. PROBLEM AREAS IN INTERMEDIATE ACCOUNTING
Continuation of Administration 372 with applications to the long-term segments of the statement of financial position. Prerequisite: Administration 372 with a grade of “C” or better. (5 units)

374. REPORTING ISSUES IN INTERMEDIATE ACCOUNTING
Continuation of Administration 372 and 373 with applications to financial reporting issues. Prerequisite: Administration 373. (5 units)

380. SURVEY OF PUBLIC ADMINISTRATION
An introduction to the study of public administration, including a survey of the major functions, structures, behaviors, processes and problems. (Also offered as Political Science 380. Students may not receive credit for both.) (5 units)

400. QUANTITATIVE DECISION METHODS
Quantitative methods of analysis used in solution of administrative problems, including linear programming and calculus applications. Prerequisites: Administration 304; and one of the following: Administration 210, Mathematics 150 or 350. (5 units)

402. STUDIES IN ORGANIZATIONAL BEHAVIOR
Review and presentation of selected areas of behavioral science research and its application to management practices. Selected subjects may include: motivation, communication, change and leadership. Prerequisite: Administration 302. (5 units)

410. CONSUMER BEHAVIOR
Nature and determinants of consumer attitudes, consumption and purchasing behavior. Prerequisite: Administration 305. (5 units)
411. RETAILING
History, development, organization and management of retail institutions. Emphasis is on retail store operations, such as location, layout, planning, control of budgets, personnel, pricing and customer services. Prerequisite: Administration 305. (5 units)

412. ADVERTISING
Stimulation of market demand through advertising media, including printed messages, radio and television, developing the advertising appeal, selecting the media, placing copy and measuring results. Consideration of social consequences of advertising. Prerequisites: Administration 305 and 410. (5 units)

414. SALES MANAGEMENT
Organizing the selling function; hiring, training and motivating sales personnel; assignment of sales tasks, objectives and territories; evaluation of performance; compensation; coordination with other promotional activities; personal selling methods and their applications. Prerequisite: Administration 305. (5 units)

420. COMPUTER MANAGEMENT
Intermediate level approach to techniques, equipment, programming and managing computer operations. Prerequisites: Administration 220 and 304. (5 units)

421. ADVANCED ADMINISTRATIVE COMPUTER ANALYSIS
In-depth treatment of administrative computer systems examining the file structure and data management of on-line systems. Topics include the meaning and construction of data elements, file organization and data base design. Prerequisite: Administration 420. (5 units)

426. FEDERAL TAXATION: INDIVIDUALS
Provisions of tax law pertaining to the individual. Prerequisites: Administration 306 and senior standing. (5 units)

427. FEDERAL TAXATION: CORPORATIONS AND FIDUCIARIES
Concepts and principles of federal taxation as they apply to business enterprises and fiduciaries, i.e., estates and trusts. Prerequisite: Administration 426. (5 units)

428. ACCOUNTING FOR COMBINED CORPORATE ENTITIES
A comprehensive study of business combinations. Emphasis on accounting problems associated with mergers, acquisitions and technical problems of preparing consolidated financial statements. Prerequisite: Administration 373. (5 units)

430. FINANCIAL POLICIES AND SYSTEMS
Financial management with application to capital markets, financial planning, capital budgeting, capital structure, portfolio selection and managerial problems. Prerequisite: Administration 303. (5 units)

432. FINANCIAL INTERMEDIARIES
Structure, operations, portfolio compositions and problems of financial intermediaries and markets. Prerequisite: Administration 303. (5 units)

435. INVESTMENT ANALYSIS
Analysis and forecasting of security markets, industry studies, portfolio construction. Prerequisite: Administration 303. (5 units)

438. AUDITING
Function of the auditor, viewed from the perspective of professional ethics. SEC standards of reporting, auditor's legal liabilities. Techniques include internal control, sampling, standards of statement presentation, use of the computer as an auditing tool. Case studies emphasize design of audit programs, working papers and audit reports. Prerequisite: Administration 373. (5 units)
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440. MARKETING RESEARCH
Analysis of markets, survey methodology, sample design, quantitative techniques in market research projects. Prerequisites: Administration 304 and 305; and one of the following: Administration 210, Mathematics 150 or 350. (5 units)

441. TECHNIQUES FOR MARKETING
Strategies and techniques in marketing management. Student is required to apply prior material from the marketing curriculum to contemporary marketing problems. Emphasis is on decision-making in such matters as product, pricing, distribution and promotional strategies. Prerequisites: Administration 305 and 410. (5 units)

442. SMALL BUSINESS MANAGEMENT
Managerial considerations for the small business entrepreneur. Acquisitions, location, legal considerations, finances, taxation, labor relations and other topics. Prerequisite: consent of instructor. (5 units)

444. PROFESSIONAL ACCOUNTING LAW
Advanced topics in contracts, commercial paper, property, legal aspects of organizations, administrative law, trusts and insurance. Emphasis is on legal problems encountered in public accounting. Prerequisite: Administration 330. (5 units)

445. ACCOUNTING SYSTEMS MANAGEMENT
Concepts of accounting systems with emphasis on the information and control functions of the management decision-making process. Prerequisites: Administration 220 and either 340 or 344. (5 units)

451. ORGANIZATION AND MANAGEMENT THEORY
Development and analysis of organization and management theory. Comparative analysis seeking patterns and systematic explanation of differences among organizations. Dynamics of interaction between organizations and environment. Prerequisites: Administration 301 and 302. (5 units)

455. HUMAN RESOURCES MANAGEMENT
Policies relating to human resources; manpower planning, personnel selection and development, performance appraisal, compensation, relationships with unionized employees, collective bargaining. Prerequisite: Administration 302. (5 units)

456. PSYCHOLOGY OF HUMAN RESOURCES
Review of research in application of psychology to selection, evaluation and training of human resources. Topics include fair employment legislation, job analysis methodologies, merit evaluation, interviewing techniques and psychometric methods. Prerequisites: Administration 455 or Psychology 355; and one of the following: Administration 210, Mathematics 150 or 350. (5 units)

457. INDUSTRIAL AND LABOR RELATIONS
Social forces leading to collective employee action in relation to labor legislation and collective bargaining. Utilizes current development, case law and bargaining simulation. Prerequisite: Administration 455. (5 units)

458. EMPLOYMENT POLICIES AND PRACTICES
Evaluation of employer-employee relationships. Utilizes case analysis for the study of policy in the areas of collective bargaining, selection and placement, affirmative action, job design and manpower utilization. Prerequisites: Administration 453 and senior standing. (5 units)

460. PRODUCTION PLANNING AND CONTROL
Analysis of production resources; measurement and evaluation of man-machine systems; forecasting, planning and scheduling; quality and quantity control. Prerequisites: Administration 301 and 304. (5 units)
462. HUMAN FACTORS DESIGN
Principles of human factors engineering, design of the industrial environment and man-machine system development as applied to industrial, urban and services delivery systems. **Prerequisite: one of the following:** Administration 210, Mathematics 150 or 350, Psychology 210. (5 units)

465. OPERATIONS RESEARCH
Principles of management science in executive decision-making. Algebraic and geometric representations of optimization models in management. Problems in production, marketing, finance, purchasing and personnel administration. **Prerequisite: Administration 400.** (5 units)

470. MANAGEMENT OF INTERNATIONAL OPERATIONS
Cultural, economic, legal, political and institutional factors influencing international operations. Organizational, marketing, financial, production and labor problems, policies and practices in the international arena. (5 units)

480. ORGANIZATIONAL PROBLEMS IN PUBLIC ADMINISTRATION
Administrative and management problems as they exist within public organizations and agencies. **Prerequisites: Administration 380 (or Political Science 380) or consent of instructor.** (5 units)

485. WOMEN IN ADMINISTRATION
Problems and issues of current concern regarding women in management. Particular emphasis on role of women in managerial decision-making process. **Prerequisite: consent of instructor.** (5 units)

490. ADMINISTRATIVE STRATEGY AND POLICY
An integrative, problem-solving approach to problems which confront the administrator. Topics are explored by utilizing skills and techniques developed in previous course work. **Prerequisites: senior standing and administration core.** (5 units)

495. EXPOSITORY WRITING FOR ADMINISTRATION
Writing related to business and public administration including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. May not be counted for fulfilling concentration requirements for any degree program offered by the School of Administration. Graded A,B,C/NC. **Prerequisites:** English 101 and upper-division standing. (5 units)

500. MANAGEMENT AND ORGANIZATION BEHAVIOR
Purpose of management as it affects operations and the behavior of people in the organization’s environment. Analysis of organizational activities of planning, production and control as well as selected behavioral concepts. No credit will be awarded to students who have had Administration 301 and 302. May not be counted toward fulfilling requirements for any degree program offered by the School of Administration. (5 units)

503. ACCOUNTING AND FINANCIAL MANAGEMENT
Intensive introduction to applied topics and techniques in accounting and financial management. Development and use of basic financial information for management analysis, decision-making, planning and control. No credit will be awarded to students who have had Administration 303 and 306. May not be counted toward fulfilling requirements for any degree program offered by the School of Administration. (5 units)

504. QUANTITATIVE TOOLS FOR MANAGEMENT
Intensive introduction to applied topics in statistics, algebraic functions and linear programming for graduate students. No credit will be awarded to students who have had all of the following: Mathematics 110 or 120, Administration 210 or Mathematics 150 or 350, and Administration 304. May not be counted toward fulfilling requirements for any degree program offered by the School of Administration or the School of Natural Sciences. (Also offered as Mathematics 504. Students may not receive credit for both.) (5 units)
530. BUSINESS AND SOCIETY
Evaluation of American business systems; political, legal and social factors influencing business; role of business in alleviating society's problems. Prerequisite: senior or graduate standing. (5 units)

551. ORGANIZATIONAL BEHAVIOR MODIFICATION
Pragmatic approach to the application of operant conditioning and attitude change technology to the organizational/industrial environment. Prerequisite: Administration 302 or 500. (5 units)

557. PUBLIC SECTOR LABOR RELATIONS
Analyzes issues created by collective bargaining and unionism in public sectors. Examples: selection of bargaining agents, bargaining scope and obligation, impasse resolution and grievance procedure. Prerequisite: Administration 302 or 562. (5 units)

562. PUBLIC PERSONNEL ADMINISTRATION
Definition, description and evaluation of government personnel systems; classification, compensation, recruitment, examination, training, working conditions, incentives, performance ratings, public employee organizations and organizational development in the public service. Prerequisite: Administration 302. (5 units)

563. GOVERNMENTAL BUDGETING
Role of the budgetary process in government management, the public sector environment of budgeting, budget formulation and administration. (5 units)

564. LOCAL PUBLIC ADMINISTRATION
Administrative characteristics and problems of public management in the urban area, including city, county, school and special district organization and functions. (5 units)

568. GOVERNMENTAL FINANCIAL MANAGEMENT AND ACCOUNTING
An introduction to financial management practices in the public sector with emphasis on controls and fund accounting. Prerequisite: Administration 306. (5 units)

569. THEORY AND PRACTICE OF INTERNAL AUDITING
Internal auditing in both the public and private sectors. Emphasis on audit organization, professional standards, internal audit philosophy, audit processes and other topics. Prerequisite: Administration 306. (5 units)

575. INTERNSHIP IN ADMINISTRATION
Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisite: consent of instructor and school. (5 units)

590. SEMINAR IN ADMINISTRATION
An intensive study of some phase of administration to be developed by the instructor. May be repeated for credit as topics change. (5 units)

595. INDEPENDENT STUDY
Special topics involving library and/or field research. A total of 10 units in Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and school approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 5 units.)

600-level courses are open to postbaccalaureate and graduate students only.

600. FOUNDATIONS OF PUBLIC ADMINISTRATION
Advanced concepts of public administration, its role in society, management of public business, survey of the major functional fields and selected problems. Prerequisite: Administration 302 or 500. (5 units)
601. ORGANIZATION THEORY AND BEHAVIOR
A critical analysis of theories for viewing organizations and an examination of the common models for understanding human behavior, including executive behavior, within the constraints of a complex social system. Prerequisites: Administration 301, 302, or equivalents. (5 units)

602. FINANCIAL PLANNING AND CONTROL
Current developments and controversies in accounting and financial controls for government and industry. Analysis of financial management in the context of recent technological, sociological and environmental changes. Prerequisites: Administration 303, 306 or equivalents. (5 units)

603. RESEARCH METHODS IN ADMINISTRATION
Principles of research design, development of research instruments, data accumulation and analysis of significant data. Critique of sample research studies from the literature and a research study conducted by the student. Prerequisite: Administration 210 or Mathematics 150 or equivalent. (5 units)

605. MARKETING MANAGEMENT
Problem-solving and decision-making in marketing and the interacting effects of such factors as selling, advertising, pricing, consumer behavior and channels of distribution. Prerequisites: Administration 305 and Economics 305. (5 units)

606. ACCOUNTING FOR MANAGERIAL DECISION-MAKING
Study and application of the concepts and techniques used by management for planning and controlling business activities. Prerequisite: Administration 503. (5 units)

607. OPERATIONS MANAGEMENT
Integration and application of analytical techniques used in manufacturing and service industries. Concepts of decision models are examined for planning, control, forecasting, scheduling, and analysis within an enterprise. Prerequisites: Administration 504 (or Mathematics 504) and Administration 301 or 500. (5 units)

610. DECISION THEORY FOR MANAGEMENT
Behavioral and quantitative approaches to administrative decision making. Prerequisites: Administration 601 and 607. (5 units)

621. MARKETING STRATEGY
Process by which a company develops a strategic marketing plan. Emphasis is on the role of marketing in the preparation of corporate strategic plans, views of the consumer/customer, potential effects of the environment, consideration of marketing information and control systems. Prerequisite: Administration 605. (5 units)

622. CONSUMER AND ORGANIZATIONAL BUYING BEHAVIOR
Influences on the purchasing behavior of individual consumers and organizational buyers. Use of theories, concepts and research findings in management and public policy decisions. Prerequisite: Administration 605. (5 units)

623. ADVANCED MARKETING RESEARCH
Marketing research functions and activities and their relationships to product/service management, media choice decision, research instruments and data collection, strategy and tactical decisions. Prerequisites: Administration 504 or equivalents and Administration 605. (5 units)

625. ADVERTISING MANAGEMENT
Role of advertising in its relationship to other marketing functions, including a detailed study of advertising techniques. Emphasis is on client-agency relationship, government relations and the role of marketing management in determining and executing advertising and promotional policy. Prerequisite: Administration 605. (5 units)
630. PRODUCTION SYSTEMS DEVELOPMENT
Production function (both products and services) in management and its importance as a subsystem of administrative operations. Prerequisite: Administration 607. (5 units)

641. PERSONNEL ADMINISTRATION
Analysis of specific areas and problems in administration of personnel systems and policies. Includes employment planning; personnel recruitment, selection and development; performance appraisal; training; compensation. Prerequisite: Administration 210 or Mathematics 150 or Mathematics 350 or Administration 504 (or Mathematics 504). (5 units)

642. COMMUNICATION AND INTERPERSONAL PROCESSES
Various theories of interpersonal processes and communication as they relate to organizational efficiency and effectiveness, as well as a consideration of the organization as a communication system. Prerequisite: Administration 601. (5 units)

643. ORGANIZATIONAL DESIGN
Examination of organizational structure and design. Emphasis on current research and applications. Prerequisite: Administration 601. (5 units)

644. INDUSTRIAL RELATIONS
Analysis of industrial relations systems in major industries, collective bargaining institutions, processes, legal environment and problems. (5 units)

650. MANAGEMENT INFORMATION AND CONTROL SYSTEMS
Study and design of management information systems, their implementation and the integration of their operations within the organization. Prerequisites: Administration 301, 304 and 602, or equivalents. (5 units)

651. FINANCIAL INSTITUTIONS AND MARKETS
Analysis of financial institutions and markets. Term structure of interest rates, portfolio theory and flow-fund analysis, deposit-type intermediaries, insurance, pension funds and investment companies. (5 units)

653. INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT
Comprehensive introduction to the descriptive and formalized quantitative areas of security analysis and portfolio management. Prerequisite: Administration 303 or 503. (5 units)

680. PUBLIC POLICY ANALYSIS
An integrative course examining the analytical, behavioral and systems sciences approaches to public administrative systems with emphasis upon the development of evaluative skills in applied decision making. Prerequisites: Administration 562, 563, 600, 603. (5 units)

685. CORPORATE POLICY ANALYSIS
Corporate policy and strategy formulation, integrating the various business functions, e.g., marketing, accounting and finance. Prerequisite: completion of, or concurrent enrollment in, all other core course(s) for the Master of Business Administration. (5 units)

695. GRADUATE RESEARCH PROJECT
Required field study in public administration, including both literary and empirical research. Prerequisites: completion of, or concurrent enrollment in, all other courses for the Master of Public Administration; and consent of instructor and school. (5 units)

698. EXTENDED ENROLLMENT
Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. Prerequisites: advancement to candidacy and consent of school. (0 units)
AMERICAN STUDIES

While American studies is not specifically designed to prepare students for careers, the major is an appropriate educational program for those contemplating fields in which a comprehensive understanding of American culture is useful, for example, law, library work and government. It can also be used as preparation for graduate study.

The degree program provides a basic set of requirements and also allows considerable flexibility and expression of individual interests. Students must complete a core of upper-division courses which establish the general context for American studies. The primary purpose of the core's design is to enable the student to understand the sequential development of both American history and literature. Therefore, these requirements are chronological rather than topical in organization. Finally, both fields are synthesized in two courses, American Studies 300 and 501.

Inquire at the History Department Office, Administration Building, Room 130 (Telephone 887-7239) for further information about the American studies program and academic advising and counseling.

Requirements for the major:

Core Courses (40 units):

ENGLISH 430. AMERICAN LITERATURE I
ENGLISH 432. AMERICAN LITERATURE II
ENGLISH 436. AMERICAN LITERATURE III

plus

Three courses from:

HISTORY 350. THE AMERICAN COLONIES, 1607–1783
HISTORY 351. THE EVOLUTION OF AMERICAN DEMOCRACY, 1783–1840
HISTORY 354. CIVIL WAR AND RECONSTRUCTION
HISTORY 356. THE UNITED STATES, 1877–1917
HISTORY 357. THE UNITED STATES, 1917–1945
HISTORY 359. THE UNITED STATES SINCE 1945

plus
AMERICAN STUDIES 300.  INTRODUCTION TO AMERICAN STUDIES

AMERICAN STUDIES 501.  SEMINAR IN AMERICAN STUDIES

Electives (20 units):
Students are required to take additional courses from at least three departments from the following list. No more than two may be lower division.

ANTHROPOLOGY 305.  NEW WORLD PREHISTORY
ANTHROPOLOGY 351.  INDIANS OF NORTH AMERICA

ART 311.  ART OF THE UNITED STATES TO THE END OF THE 19th CENTURY
ART 413.  MODERN ART OF THE UNITED STATES

ECONOMICS 370.  THE AMERICAN ECONOMY
ENGLISH 140.  SURVEY OF AMERICAN LITERATURE
ENGLISH 580.  SEMINAR IN AMERICAN LITERATURE

HISTORY 200.  UNITED STATES HISTORY TO 1877
HISTORY 201.  UNITED STATES HISTORY, 1877 TO THE PRESENT

*HISTORY 350.  THE AMERICAN COLONIES, 1607–1783
*HISTORY 351.  THE EVOLUTION OF AMERICAN DEMOCRACY, 1783–1840
*HISTORY 354.  CIVIL WAR AND RECONSTRUCTION
*HISTORY 356.  THE UNITED STATES, 1877–1917
*HISTORY 357.  THE UNITED STATES, 1917–1945
*HISTORY 359.  THE UNITED STATES SINCE 1945

HISTORY 370A.  CALIFORNIA TO 1865
HISTORY 370B.  CALIFORNIA 1865–PRESENT

HISTORY 420.  ECONOMIC HISTORY OF THE UNITED STATES
HISTORY 556.  FOREIGN RELATIONS OF THE UNITED STATES
HISTORY 560.  HISTORY OF THE AMERICAN WEST
HISTORY 565.  ETHNIC MINORITIES IN AMERICAN HISTORY

MUSIC 360.  MUSIC IN THE UNITED STATES

POLITICAL SCIENCE 203.  AMERICAN GOVERNMENT

POLITICAL SCIENCE 314.  AMERICAN POLITICAL THOUGHT
POLITICAL SCIENCE 325. AMERICAN FOREIGN POLICY

POLITICAL SCIENCE 328. JUDICIAL PROCESS

POLITICAL SCIENCE 410. AMERICAN CONSTITUTIONAL LAW

POLITICAL SCIENCE 411. THE BILL OF RIGHTS

POLITICAL SCIENCE 570. POLITICS OF THE UNITED STATES ECONOMY

THEATRE ARTS 461. AMERICAN DRAMA

* These courses may be used as electives if they have not already been used for the core.

Honors in the Major: Students majoring in American studies are eligible to receive honors in American studies at graduation if the following conditions are met: (1) at least one-half of the course work required by the major is completed at this college, (2) at least a 3.5 GPA in the major, both at this college and overall, (3) an overall undergraduate GPA of 3.0 or better, and (4) completion of a senior project approved in advance by the program coordinator. Students interested in receiving this recognition must initiate the process by making a formal application with the History Department secretary.

300. INTRODUCTION TO AMERICAN STUDIES
Concepts and definitions essential to an interdisciplinary approach to American civilization and an application of these to some aspect of American experience. (5 units)

501. SEMINAR IN AMERICAN STUDIES
Special topics in some aspect of American civilization suitable for the particular background of the student. May be repeated for credit as topics change. Open to American studies majors with senior standing and to other qualified students upon consent of instructor. (5 units)
ANTHROPOLOGY

The study of anthropology promotes an understanding of self and all mankind by exploring man's nature at all times and in all places. In the modern world in which every society depends upon other societies, ignorance of the goals, values and ways of life of others may become a fear leading to discrimination and racism in the community or to war and oppression between nations. The challenges of desert life for the Australian Aborigine and the problems of contemporary ghetto existence are of equal interest to the anthropologist, and courses in these topics and world ethnography are offered by the Anthropology Department. Man's physical and cultural evolution, the distribution and significance of racial differences, the history and ecology of specific areas, and the role of language in culture are treated in courses in physical anthropology, archaeology and prehistory, and linguistics.

Inquire at the Anthropology Department Office, Student Services Building, Room 139 (Telephone 887-7281) for further information about the anthropology program and academic advising and counseling.

The Anthropology major involves a two-track system, Track A (general anthropology) and Track B (museum studies). Both tracks require a minimum of 40 upper-division units in anthropology; Track B requires an additional 30 units of course work in related fields.

Requirements for Track A: Anthropology 511; five units from Anthropology 300-325 (archaeology/physical anthropology); five units from Anthropology 351-361, 390 (culture areas); five additional units from Anthropology 300-325, 351-361, 390; 15 units from Anthropology 330, 335, 375, 456-595 (theory); five additional upper-division units in anthropology (or a related field as approved by an advisor).

Requirements for Track B: Anthropology 375; five units from Anthropology 300-325 (archaeology/physical anthropology); 10 units from Anthropology 351-361, 390 (culture areas); 10 units from Anthropology 330, 335, 456-550 (theory); 10 units of Anthropology 575 (internship); Administration 306 and 380 (cross-listed as Political Science 380); Art 201 and 203; Computer Science 120; one elective to be chosen from Administration 480, Art 380, Art 384, Geography 301.

Anthropology 100 and 102 or an equivalent background are ordinarily required for enrollment in upper-division anthropology courses.

Requirements for a minor in anthropology: Anthropology 100, 102 and 20 upper-division units selected in consultation with an advisor.

100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION
Man's biological and social evolution through time. (5 units)
102. INTRODUCTION TO ANTHROPOLOGY: CULTURE AND SOCIETY
Structure and dynamics of man's cultural experience; comparative analysis of language, religion, economic patterns and social and political organization in traditional and complex societies. (5 units)

300. ARCHAEOLOGY
History of archaeological research, a survey of concepts and methods for the study of prehistoric culture and a summary of major sequences in prehistory. (5 units)

301. OLD WORLD PREHISTORY
The prehistory and protohistory of Eurasia and Africa, emphasizing the growth of culture and the origin and spread of civilization. (5 units)

305. NEW WORLD PREHISTORY
The prehistory of North, Middle and South America, emphasizing the peopling of the New World, the earliest American Indian cultures and later regional developments. (5 units)

310. ANCIENT CIVILIZATIONS OF THE NEW WORLD
The origin, spread and decline of pre-Columbian civilizations in the New World. (5 units)

315. SOUTHWESTERN ARCHAEOLOGY
The prehistoric cultures of the American Southwest, their origins, characteristics and relationships. (5 units)

325. HUMAN VARIATION AND THE CONCEPT OF RACE
An inquiry into past and present interpretations of the significance of human physical differences. (5 units)

330. CROSS-CULTURAL CHILD-REARING PRACTICES
Cross-cultural examination of child-rearing practices from the perspective of major anthropological theories of personality formation and its relationship with culture. (5 units)

335. CROSS-CULTURAL PERSPECTIVES ON CRIME AND DEVIANCE
Cross-cultural examination of behavior regulation in human societies. Specific topics include cultural definition of crime and deviance, conflict resolution, processes of control and the distribution of authority and power. (5 units)

WORLD CULTURES (Anthropology 351-361)
Emphasis in the following courses is on major problems of current interest to the cultural anthropologist. Topics include general discussion of physical anthropology, language affiliations and culture, history of the area, the native populations, their relations with each other and to outside societies, and the effects of culture change upon them through time.

351. INDIANS OF NORTH AMERICA
(5 units)

352. INDIANS OF THE SOUTHWEST
(5 units)

354. CULTURES OF MEXICO AND CENTRAL AMERICA
(5 units)

356. CULTURES OF SOUTH AMERICA
(5 units)

360. PEOPLES OF AUSTRALIA
(5 units)
361. PEOPLES OF MICRONESIA, MELANESIA AND POLYNESIA
(5 units)

375. MUSEUM METHODS
Introduction to the techniques of museum work, and to the history, theory and practice of museums. Includes curatorial methods, and the care, preservation, storage and exhibition of museum specimens. (5 units)

390. SELECTED TOPICS IN ANTHROPOLOGY
An anthropological examination of a selected topic. May be repeated for credit as topics change. (5 units)

456. ADVANCED PHYSICAL ANTHROPOLOGY: PRIMATE STUDIES
Taxonomy and fossil record of the nonhuman primates. Primate behavior as a basis for the reconstruction of prehistoric human behavior. Prerequisite: Anthropology 100 or equivalent or consent of instructor. (5 units)

457. ADVANCED PHYSICAL ANTHROPOLOGY: PALEOANTHROPOLOGY
The analysis of the anatomical and behavioral evidence of fossil man and earlier hominid forms. Discussion of the problems involved in reconstructing the direction of human physical and cultural evolution. Prerequisite: Anthropology 100 or equivalent or consent of instructor. (5 units)

460. LANGUAGE AND CULTURE
Analysis of languages stressing the relationship of language to patterns of human behavior. (5 units)

470. CULTURE CHANGE AND DYNAMICS
An examination and evaluation of the various theories that have been proposed to explain societal change using actual case study materials. (5 units)

475. CULTURAL ECOLOGY
An examination of theories, methods and applications of the ecological perspective in the anthropological study of human cultures, and a cross-cultural comparison of adaptations to different ecological niches. (5 units)

480. MAGIC, RELIGION AND SCIENCE
A comparative study of the widely varied attempts by members of human societies to order, control and make predictions about their physical and social environments. (5 units)

490. SYSTEMS OF SOCIAL ORGANIZATION
A comparative description and analysis of social integration in human societies. (5 units)

492. ECONOMIC ANTHROPOLOGY
An anthropological approach to the analysis of systems of production and exchange in nonindustrial societies. (5 units)

493. URBAN ANTHROPOLOGY
Utilization of ethnographic and cross-cultural materials in an examination of anthropological concepts and methods for the study of urban environments and the processes of urbanization. (5 units)

511. METHODS AND THEORY IN ANTHROPOLOGY
An in-depth examination of the development and current status of major methodological and theoretical orientations in anthropology. Prerequisite: senior or graduate standing or consent of instructor. (5 units)

530. ANTHROPOLOGY OF HUMAN DEVELOPMENT
A cross-cultural perspective on human development and the processes of personality formation and cultural transmission. (5 units)
550. FIELDWORK IN CULTURAL ANTHROPOLOGY
Supervised design, execution and analysis of an ethnographic field project. Prerequisite: consent of instructor. (5 units)

575. INTERNSHIP IN ANTHROPOLOGY
Supervised work in public or private organizations (for example, museums) emphasizing practical applications of anthropological concepts. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (5 units)

595. INDEPENDENT STUDY
Special topics involving library and/or field research. A total of 10 units in Anthropology 595 may be applied toward graduation. Only five of those units may be applied to the major. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units.)
The challenge for visual artists is to discover what is already there, to open up and probe what is inside and outside themselves and to find a means of giving it back to the whole world. It is this adventure which is the focus of the Department of Art.

A student may either major or minor in art, and eventually chooses one or more specific areas of concentration. The choice is governed by the student’s experiences with various media, concepts and techniques, but this is not a rigid choice as new interactions among these elements are constantly being developed.

Three plans are available for students working for the Bachelor of Arts in Art and two options are available for a minor in art. The studio areas of concentration currently offered are: ceramics, crafts, communications design, drawing, glass, jewelry and metalsmithing, painting, photography, printmaking, sculpture, weaving and fiber construction, and woodworking and furniture design.

In addition to their courses in art, students are urged to seek electives in related areas of creative expression. Suggested possibilities include acting, creative writing, music seminar in electronic composition.

Art majors under Plans I and II are required in the senior year to arrange an exhibit or review of representative examples of studio work completed while in residence at this College.

Students in either Plan I or II interested in the history of art may use the three upper-division electives in art in that area.

Field trips are required in most art history courses and several studio courses as well. Also, in many courses students are required to pay for materials used.

Inquire at the Art Department Office, Fine Arts Building, Room 123 (Telephone 887-7450 or 887-7459) for further information about the art program and academic advising and counseling.

Requirements for the major (Plan I): Art 201, 203, 204, 599, four courses in the history of art, two upper-division studio courses in a single area of concentration, and three upper-division electives in the department. This program is designed for students seeking a liberal education with an emphasis in art, and is recommended for those who wish to teach at the secondary school level.

Requirements for the major (Plan II, single studio area of concentration): Art 201, 203, 204, 599, five courses in the history of art, four upper-division studio courses in a single area of concentration, and three upper-division electives in the department. This program is designed for the student with a strong professional interest in art who may wish to pursue graduate studies. Such students are strongly advised to take Art 210A and B.

Requirements for the major (Plan III, art history area of concentration): Art 201, 203, 204, 210A and B, 510; two upper-division studio art courses; one course chosen from each of the following five groups of art history courses: (Art 306,
308, 316A and B), (Art 321, 327), (Art 311, 423), (Art 328, 329, 413, 424), (Art 314, 317A, B and C, 324); and two additional courses chosen from the courses in the five groups listed above. This program is designed for the student with a strong professional interest in art history or museum work who may wish to pursue graduate studies. Such students are strongly advised to learn French and German.

A fourth plan is being developed for students working for the Bachelor of Arts, Plan IV (communications design area of concentration). Contact the Department of Art for further details.

Minor in studio art: Art 201, 203, 204; three courses in art history; and one upper-division studio course.

Minor in art history: six courses in art history. In most cases, students who have completed the minor in art history and three terms of a foreign language or equivalent proficiency can easily complete the requirements of a humanities major as well.

Certificate Program: The Department of Art offers a certificate program in Business Skills for the Artist. Details concerning this program are found on Page 91.

200. STUDIES IN ART
Exploration of the form and content of art. Cannot be counted toward fulfillment of requirements in the major. (5 units)

201. FOUNDATION STUDIO IN ART
Organization of two-dimensional phenomena with an emphasis on the interaction of color. (5 units)

203. FOUNDATION STUDIO IN ART
The organization of three-dimensional phenomena. Materials fee required. (5 units)

204. DRAWING AND LIFE DRAWING
Exploration in techniques of drawing for purposes of creative expression related to object and figure placement in space. (5 units)

Art 201, 203 and 204 represent a foundation group that can be taken in any sequence. This group or its equivalent must be completed before enrollment in upper-division studio courses—with certain exceptions as noted in course descriptions.

210. WESTERN ART HISTORY
Development of western art and its historical context.
A. Prehistoric Times through the Middle Ages (5 units)
B. Renaissance to the Present (5 units).

303. DESIGN STUDIES
Study and experimentation in creative problem solving and various techniques in visual design. (5 units)

304. ADVANCED DRAWING AND LIFE DRAWING
Further exploration in techniques of drawing for purposes of creative expression. A maximum of 25 units may be applied toward the degree. Prerequisite: Art 204 or consent of instructor. (5 units)

306. GREEK AND ROMAN ART
Architecture, sculpture, painting and decorative arts of ancient Greece and Rome. (5 units)
308. MEDIEVAL ART
Art and architecture of Europe from the 8th through the 13th centuries. (5 units)

311. ART OF THE UNITED STATES TO THE END OF THE 19TH CENTURY
Development of American art from the Colonial period to c. 1900. Significant examples from the fields of architecture, sculpture, painting and the decorative arts. (5 units)

314. THE ART OF INDIGENOUS PEOPLES
Art of the native cultures of North, Central and South America; the South Pacific; Africa. (5 units)

316. TOPICS IN NEAR EASTERN ART
History and development of the architecture, sculpture and decorative arts of the Near East.
A. The Ancient Near East (5 units)
B. Egyptian Art (5 units)

317. TOPICS IN FAR EASTERN ART
History and development of styles of eastern art from pre-historic times.
A. India (5 units)
B. China (5 units)
C. Japan (5 units)

321. RENAISSANCE ART
Art and architecture of northern and southern Europe in the 15th and 16th centuries. (5 units)

324. PRE-COLUMBIAN ART
Art and architecture of pre-Columbian cultures with an emphasis on Mexico and Peru. (5 units)

327. BAROQUE AND ROCOCO ART
Art and architecture of 17th and 18th century Europe. (5 units)

328. MEXICAN ART
Art and architecture of Mexico from the Conquest to the present. (5 units)

329. CHICANO ART
Art and culture of Mexican Americans. (5 units)

331. PAINTING I
Pictorial functions of formal elements of picture-making such as line, plane, color and light, pattern and edge. Materials fee required. Prerequisites: Art 201 and 204. (5 units)

334. ADVANCED PAINTING
Advanced work in painting. A maximum of 20 units may be applied toward the degree. Materials fee required. Prerequisite: Art 331 or consent of instructor. (5 units)

340. SCULPTURE
Approaches to sculpture using a variety of materials, tools, processes and concepts. A maximum of 25 units may be applied toward the degree. Materials fee required. Prerequisite: Art 203 or consent of instructor. (5 units)

354. CERAMICS I
Procedures of hand building, throwing, slip casting and glazing as practiced by the studio potter and the ceramic sculptor. Materials fee required. (5 units)

357. ADVANCED CERAMICS
Advanced work in ceramics. A maximum of 20 units may be applied toward the degree. Materials fee required. Prerequisites: Art 203 and 354 or consent of instructor. (5 units)
360. PRINTMAKING
Creative research into studio techniques in relief, intaglio, collographic, planographic and stencil processes. A maximum of 25 units may be applied toward the degree. Materials fee required. 
Prerequisites: Art 201 and 204. (5 units)

368. WOODWORKING AND FURNITURE DESIGN I
Explorations in the use of hand and power tools in woodworking. Prerequisite: Art 203. (5 units)

369. ADVANCED WOODWORKING AND FURNITURE DESIGN
Advanced work in woodworking and furniture design. A maximum of 20 units may be applied toward the degree. Prerequisite: Art 368. (5 units)

374. WEAVING AND FIBER CONSTRUCTION
Design and execution of woven and nonwoven textile structures using a variety of techniques. Exploration in the use of various fibers in the form of yarns, rope, cord and cane, and the possibilities of weaving without a standard loom. A maximum of 25 units may be applied toward the degree. Materials fee required. Prerequisite: Art 203 or consent of instructor. (5 units)

375. GLASS
Techniques of blown, stained, molded, neon and flame glass used in the formation of functional and sculptural objects. A maximum of 25 units may be applied toward the degree. Materials fee required. Prerequisite: Art 203 or consent of instructor. (5 units)

376. JEWELRY AND METALSMITHING
Design and fabrication of jewelry and hollow ware including the techniques of bending, forming, soldering and casting. A maximum of 25 units may be applied toward the degree. Materials fee required. Prerequisite: Art 203 or consent of instructor. (5 units)

380. COMMUNICATIONS DESIGN
Design concepts as applied to visual communication, including graphic design and layout, packaging, corporate identity, symbology, display and environmental graphics. A maximum of 25 units may be applied toward the degree. Materials fee required. Prerequisites: Art 201 and 203 or consent of instructor. (5 units)

382. COMMUNICATIONS SPECIALTIES
Design of labels, structure, display and production of three-dimensional containers for industrial and commercial usage, and consumer consumption. Course may be repeated as topics change. Materials fee required. Prerequisite: Art 380.
A. Display and Tradeshow Design (2½ units)
B. Design Practices (2½ units)
C. Typography/Production (2½ units)
D. Publication Design (2½ units)
E. Mark and Logo Design (2½ units)
F. Packaging Design (2½ units)
G. Problem Solving (2½ units)

384. PHOTOGRAPHY
Creative research in the study of photography, to include content, design, technique and individual problems. A maximum of 25 units may be applied toward the degree. Materials fee required. (5 units)

386. AUDIO AND VIDEO MEDIA
Introduction to the theories and techniques governing the use of video, photographic and audio recording equipment in graphic production. (5 units)

395. ART IN THE CLASSROOM
Providing art experiences through the use of varied art media in the elementary school. May not be counted toward fulfilling requirements of courses in the art major. (5 units)
397. **EXPLORATION IN ART**
Uses of a variety of art materials, processes and concepts for the purposes of creative expression. Designed for the nonart major and the elementary school teacher. May not be counted toward fulfilling requirements of courses in the art major. (5 units)

410. **STUDIES IN ART HISTORY**
Study in a selected period in the history of art. May be repeated for credit. (5 units)

413. **MODERN ART OF THE UNITED STATES**
Art in America in the 20th century. (5 units)

423. **NINETEENTH CENTURY EUROPEAN ART**
Art of 19th-century Europe; from neo-Classicism through post-Impressionism. (5 units)

424. **MODERN EUROPEAN ART**
Twentieth-century art and architecture in Europe from 1900 to the present. (5 units)

483. **STUDIES IN STUDIO ART**
Study and experimentation in a selected area of art. May be repeated for credit as topics change. Materials fee required. Prerequisites: Art 201, 203 and 204 or consent of instructor. (5 units)

484. **STUDIES IN STUDIO ART**
Study and experimentation in a selected area of art. May be repeated for credit as topics change. Materials fee required. Prerequisites: Art 201, 203 and 204 or consent of instructor. (5 units)

510. **COLLOQUIUM IN ART**
Inquiry into problems of art history, aesthetics and art criticism. May be repeated for credit. Prerequisite: consent of instructor. (5 units)

575. **COMMUNICATIONS DESIGN INTERNSHIP**
Supervised work in a professional design office or for a public or private organization. May be repeated once for credit. Prerequisite: consent of department. (5 units)

595. **INDEPENDENT STUDY**
Studio and/or library research conducted under the direction of a faculty member. A total of ten units of Art 595 may be applied toward graduation. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1–6 units)

599. **SENIOR ART PROJECT**
Preparation of senior portfolio and senior show. Prerequisites: senior status in final quarter of residence and consent of instructor. (2½ units)
BILINGUAL/CROSS-CULTURAL STUDIES

The courses listed below are intended to be used by students who wish to complete simultaneously the B.A. in Liberal Studies and the requirements for the multiple subjects credential with the bilingual/cross-cultural option (see Page 204). For further information concerning credential programs, contact the School of Education.

The College offers a certificate in bilingual/cross-cultural studies: Spanish/English. For further information, see Page 90.

ANTHROPOLOGY 354. CULTURES OF MEXICO AND CENTRAL AMERICA
ANTHROPOLOGY 460. LANGUAGE AND CULTURE
ART 328. MEXICAN ART
ART 329. CHICANO ART
EDUCATION 536. TEACHING THE CULTURALLY DIFFERENT
FOREIGN LANGUAGES 450. (SPANISH 450.) LITERATURE IN TRANSLATION: MEXICAN
HISTORY 390. HISTORY OF MEXICO
HISTORY 391. CHICANO HISTORY
HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY
HISTORY 566. ETHNIC MINORITIES IN THE AMERICAN SOUTHWEST: PAST AND PRESENT
HUMANITIES 460. CULTURE STUDIES: MEXICO
INTERDISCIPLINARY STUDIES 460. ASPECTS OF CHICANO CULTURE
MUSIC 351. MEXICAN AND CHICANO MUSIC
POLITICAL SCIENCE 351. THE CHICANO AND POLITICS
PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO
SOCIOLOGY 342. THE CHICANO FAMILY
SOCIOLOGY 410.  RACIAL AND CULTURAL MINORITIES

SPANISH 202.  GRAMMAR AND COMPOSITION

SPANISH 204.  INTRODUCTION TO LITERARY TEXTS

SPANISH 302.  THEORY AND PRACTICE IN COMPOSITION

SPANISH 440.  MEXICAN LITERATURE
The major in biology emphasizes the relationship between structure and function in living systems and the concept that biological processes can be studied at different levels of organization. The program provides a balanced blend of traditional and modern biology, incorporating the important generalizations of traditional biology and the more recent advances essential to the successful biologist or medical practitioner of the future.

The excellent facilities and equipment of the department are readily available to all students enrolled in biology courses. Qualified seniors are encouraged to engage in research projects through the independent study program.

Many career opportunities are available to the student majoring in biology. The undergraduate program provides an excellent background for further work in medicine, dentistry, veterinary medicine, medical technology and graduate programs; and it also can serve for direct entry into public school teaching and a variety of positions in industrial, research and governmental organizations.

Field trips are a normal and required part of a number of courses.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in biology should refer to Page 74 of this bulletin and consult with a departmental advisor.

Inquire at the Biology Department Office, Biological Sciences Building, Room 217 (Telephone 887-7353) for further information about the biology program and academic advising and counseling.

Requirements for the bachelor of arts degree: Mathematics 120 or 150 or 200; Physics 121, 225, 122 and 226 or 221, 225, 222 and 226; Chemistry 215-216 and 225-226 or 321-322-323; Biology 200-201-202; and six upper-division courses in biology (which may include Chemistry 436-437) totaling no less than 30 units.

Requirements for the bachelor of science degree: Mathematics 120 or 150 or 200; Physics 121, 225, 122 and 226 or 221, 225, 222 and 226; Chemistry 215-216-217 and 225-226 or 321-322-323; Biology 200-201-202; four courses selected from Biology 400 (or Chemistry 437), 423, 424 or 431, 440, 450; and six upper-division courses in biology (which may include Chemistry 436-437) totaling no less than 30 units.

All courses leading to either a B.A. or a B.S. are to be selected in consultation with a departmental advisor.

Requirements for a minor in biology: Biology 200-201-202 and three additional upper-division courses in biology totaling no less than 15 units; Chemistry 215-216; and one of the following: Physics 100, 121 and 225, 221 and 225; Mathematics 120, 150, 200.

Departmental Honors: Candidacy for departmental honors in biology is voluntary. To be eligible a student must fulfill the following requirements: achieve a minimum GPA of 3.5 for all courses satisfying the requirements for the major (as defined above), take at least five courses in the major at the College, complete
satisfactorily Biology 595 and complete satisfactorily the departmental comprehensive examination. Application for candidacy must be made at the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor will have sole responsibility for acceptance of the completed project.

The department may grant honors to the exceptional student who fails to meet the above requirements, but who has in the judgment of the department brought distinction upon himself and the department in some other appropriate manner.

Master of Science Degree: Details of this program and application procedures are outlined in the Graduate Bulletin. The program is open to both full-time and part-time students and generally requires the equivalent of one year's full-time work for completion (45 units of graduate study including completion of master's thesis and final oral examination or the nonthesis alternative).

134. TOPICS IN BIOLOGY
Major generalizations of biology with particular emphasis on man's interaction with the biosphere. Lecture and three hours of laboratory. (5 units)

200. BIOLOGY OF THE CELL
Introduction to cellular structure and function. Lecture and three hours of laboratory. Prerequisite: one year of high school chemistry or equivalent. (5 units)

201. BIOLOGY OF ORGANISMS
Introduction to the structural and functional attributes of organisms. Lecture and three hours of laboratory. (5 units)

202. BIOLOGY OF POPULATIONS
Introduction to the principles of ecology, heredity and evolution. Lecture and three hours of laboratory. (5 units)

220. PRINCIPLES OF MICROBIOLOGY
Morphology, physiology and classification of bacteria, yeasts, molds, rickettsiae and viruses. Bacteriology of air, soil and dairy products; rudiments of infection and immunity. Laboratory training in culture preparation, sterilization, inoculation and identification. Lecture and six hours of laboratory. Prerequisite: one lower-division biology course. (6 units)

222. HUMAN ANATOMY AND PHYSIOLOGY
Survey of structure and function of human organ systems with emphasis on homeostasis. May not be counted toward fulfilling requirements in the biology major. Lecture and three hours of laboratory. Prerequisite: one lower-division biology course. (5 units)

310. SCIENCE AND HUMAN PHENOMENA
Integrated course emphasizing the dynamic aspects of biology, chemistry and physics as they relate to the function of the human body and biomedical instrumentation. Lecture and three hours of laboratory. May not be counted toward fulfilling requirements in the biology major. Prerequisite: a college course in biology. (5 units)

314. BIOLOGY OF HUMAN SEXUALITY
Biological aspects of human anatomy, physiology and behavior as related to sexual reproduction including discussion of fertility, pregnancy, childbirth and birth control; consideration also given to homosexuality, venereal disease, sexual intercourse and response. Lecture only. Prerequisite: one lower-division biology course. (5 units)
315. INTRODUCTION TO HUMAN EMBRYOLOGY
An introductory course in human development. Emphasis on normal developmental sequences from fertilization to birth and on factors which can modify these normal sequences. Lecture only. This course is not appropriate for premedical students or biology majors and may not be counted toward major requirements in biology. Prerequisite: Biology 100. (5 units)

316. GENETICS OF MAN
Principles of heredity as they apply to man. Lecture only. May not be counted toward fulfilling requirements in the biology major by students already receiving credit for Biology 423. Prerequisite: one lower-division biology course. (5 units)

319. LOCAL FLORA
Identification of the flora of the immediate San Bernardino area with a consideration of taxonomic principles. Field collections, lecture and six hours of laboratory. Prerequisite: one lower-division biology course. (6 units)

321. EVOLUTION
Darwin, the modern view of evolution and the implications of evolution in other disciplines. Lecture only. Prerequisite: one lower-division biology course. (5 units)

331. BIOLOGY OF THE INVERTEBRATES
The evolution of the invertebrate phyla with emphasis on major phylogenetic changes. Lecture and six hours of laboratory. Prerequisite: Biology 201. (6 units)

335. ENTOMOLOGY
A study of the evolution, anatomy, classification and habits of insects and related arthropods. Lecture and six hours of laboratory. Prerequisite: Biology 201. (6 units)

342. BIOLOGY OF THE CHORDATES
Consideration of structural, physiological and ecological changes in the evolution of the chordate groups with an emphasis on comparative vertebrate anatomy. Lecture and six hours of laboratory. Prerequisite: Biology 201. (6 units)

352. BIOLOGY OF PLANTS
Lecture and six hours of laboratory. Prerequisite: Biology 201
A. Evolution, structure and physiology of lower plants and fungi. (6 units)
B. Comparative morphology and phylogeny of higher plants. (6 units)
C. Biosystematics and classification of vascular plants. (6 units)

360. FUNCTIONAL ANATOMY OF PLANTS
Tissues and tissue aggregates in vascular plants, stressing the functional attributes of structure, with laboratory study of living and preserved plant material and prepared slides. Lecture and six hours of laboratory. Prerequisite: Biology 201. (6 units)

370. SYMBIOSIS
The nature and principles of biological interactions with a survey of various types of relationships such as commensalism, mutualism, parasitism and competition. Lecture only. Prerequisite: Biology 201. (5 units)

371. PARASITOLOGY
Study of the nature and principles of parasitism with a survey of various types of animal parasites. Lecture and six hours of laboratory. Prerequisite: Biology 201. (6 units)

376. BASIC FOUNDATION IN ENDOCRINOLOGY
Vertebrate endocrine system, with emphasis on mechanisms for regulating the biosynthesis, secretion, transport and actions of hormones. Designed for students interested in medicine and related areas. Lecture only. Prerequisites: organic chemistry and vertebrate physiology, or equivalent. (5 units)
378. MEDICAL AND ECONOMIC ENTOMOLOGY
Survey of medically and economically important species harmful and beneficial to man. Lecture only. (5 units)

400. MOLECULAR BIOLOGY
A basic course in biological chemistry with emphasis on gene function. May not be counted for credit by students who have received credit for Chemistry 437. Lecture and six hours of laboratory. Prerequisites: Biology 201 and Chemistry 226 or 323. (6 units)

423. GENETICS
Principles of classical and modern genetics including an introduction to population genetics. Lecture and six hours of laboratory. Prerequisite: one year of biology, including Biology 202 or equivalent. (6 units)

424. COMPARATIVE ANIMAL PHYSIOLOGY
A comparative analysis of the physiological mechanisms and processes of organisms with emphasis upon trends of evolutionary specialization. Lecture and six hours of laboratory. Prerequisite: Biology 201. Pre- or corequisite: Chemistry 226 or 323. (6 units)

431. COMPARATIVE PLANT PHYSIOLOGY
Analysis of water relationships and nutrient requirements of green plants, their metabolism and controlling mechanisms involved in their growth and development. Lecture and six hours of laboratory. Prerequisite: Biology 201. Pre- or corequisite: Chemistry 226 or 323. (6 units)

440. PRINCIPLES OF DEVELOPMENT
A comparative analysis of patterns and processes of development in organisms, with emphasis upon the role of genetic and biochemical mechanisms. Lecture and six hours of laboratory. Prerequisite: Biology 201. (6 units)

450. ECOLOGY
An analysis of the interrelationships of organisms and their physical and biotic environment with a consideration of the role of the environment in natural selection. Lecture, field studies and six hours of laboratory. Prerequisites: Biology 201 and 202. Recommended: Mathematics 150. (6 units)

460. BIOGEOGRAPHY
Investigation of plants and animals according to their environmental and spatial relationships. Biogeographic theory and regions will be examined; agents of biotic distribution and human influence will be noted. Lecture only. (Also offered as Geography 460. Students may not receive credit for both.) Prerequisites: upper-division standing, Geography 103 or Earth Science 101, and Biology 201 or 202; or consent of instructor. (5 units)

474. HEMATOLOGY
Basic principles and current laboratory procedures used in the study of blood. Morphological and chemical characteristics of normal and abnormal blood tissue will be emphasized. Lecture and six hours of laboratory. Prerequisite: Biology 424. (6 units)

476. IMMUNOBIOLOGY
Antigens, antibodies and the immune response. Lecture and six hours of laboratory. Prerequisites: Biology 400 or equivalent and Biology 424. (6 units)

522. THE GENETICS AND ECOLOGY OF POPULATIONS
Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Lecture only. Prerequisite: Biology 423. Recommended: Biology 450. (5 units)

542. NEUROSCIENCE
An integration of the basic principles of neurophysiology and psychobiology. Information transmission at various levels in the organism. Interpretation of behavioral correlates. Lecture only. (Also offered as Psychology 542. Students may not receive credit for both.) Prerequisites: senior or graduate standing and consent of instructor. (5 units)
545. THE NATURE AND EVOLUTION OF ANIMAL BEHAVIOR
Interrelationship between the ecology and behavior of animals, with particular reference to evolutionary aspects. Prerequisites: senior or graduate standing and consent of instructor. (5 units)

570. PHYSICAL AND CHEMICAL LIMNOLOGY
Physical and chemical characteristics of lakes and streams, as related to the activities of the natural biota, environmental factors and the geological substratum. Lecture and six hours of laboratory. Prerequisites: Biology 450 and Chemistry 217. (6 units)

595. INDEPENDENT STUDY
Laboratory and/or library research in selected areas in biology conducted under the direction of a faculty member. A total of six units in Biology 595 may be applied toward graduation. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. (Credit to be arranged: 1 to 6 units)

600-level courses are open to postbaccalaureate and graduate students only.

600. ADVANCED TOPICS IN MOLECULAR BIOLOGY
An in-depth consideration of selected research areas in molecular biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2½ units)

620. ADVANCED TOPICS IN PLANT BIOLOGY
An in-depth consideration of selected areas of current study in plant biology. May be repeated for credit as topics change. (2½ units)

624. ADVANCED TOPICS IN PHYSIOLOGY
An in-depth consideration of selected research areas in physiology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2½ units)

640. ADVANCED TOPICS IN NEUROSCIENCE
An in-depth consideration of selected areas of neurophysiology and psychobiology. May be repeated for credit as topics change. Lecture only. (Also offered as Psychology 640. Students may not receive credit for the same topic in both.) Prerequisite: Biology 542 or Psychology 542. (2½ units)

650. ADVANCED TOPICS IN GENETICS
An in-depth consideration of selected research areas in genetics. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2½ units)

660. ADVANCED TOPICS IN DEVELOPMENT
An in-depth consideration of selected research areas in developmental biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2½ units)

664. BIOSYSTEMATICS
Fundamental concepts of classification systems, biometric and experimental taxonomic procedures, nomenclature and systematic literature; both plant and animal materials used. Lecture only. Prerequisites: Biology 423 and one taxonomy-based course; e.g. Biology 319, 331, 335, 342, 352A, 352B or 352C. Recommended: Mathematics 150. (2½ units)

670. ADVANCED TOPICS IN ECOLOGY
Literature survey of specific topics related to community or ecosystem dynamics. May be repeated for credit as topics change. Prerequisite: Biology 450 or equivalent. (2½ units)

675. ADVANCED TOPICS IN PARASITOLOGY
An in-depth consideration of selected research areas in parasitology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2½ units)
680. ADVANCED TOPICS IN EVOLUTION
Topics of current research interest in plant or animal evolution. May be repeated for credit as topics change. (2½ units)

690. GRADUATE SEMINAR IN BIOLOGY
Selected topics and reviews of current investigations in the fields of biology. Required of all graduate students in biology. May be repeated for credit as topics change. (2½ units)

695. RESEARCH TECHNIQUES IN BIOLOGY
Students will work in research laboratories of faculty a minimum of two weeks in each of the five subdivisions of biology. Experimental design, collection of data and evaluation of results will be considered. (2½ units)

698. EXTENDED ENROLLMENT
Independent study leading to completion of requirements (other than course work) for the master of science degree. Students enrolled in this course have full use of College facilities. Prerequisite: advancement to candidacy and consent of department. (0 units)

699. THESIS RESEARCH AND THESIS
Independent graduate research conducted under guidance of the major advisor and resulting in a thesis. May be repeated for a maximum of 9 units. Prerequisites: Biology 695 and advancement to candidacy. A. (3 units) B. (3 units) C. (3 units)
The Department of Chemistry provides: (1) undergraduate training in chemistry for students planning professional careers in chemistry and allied professions such as medicine, dentistry, pharmacy, health sciences and veterinary medicine and for those contemplating graduate work for advanced degrees; (2) appropriate courses for the teacher credential program; (3) fundamental chemical science courses required by students majoring in related fields such as physics and biology; and (4) an understanding of the achievements and contributions of chemistry as a science.

The Bachelor of Science in Chemistry satisfies the requirements for certification by the American Chemical Society.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in chemistry should refer to Page 74 of this bulletin and consult with a departmental advisor.

Students interested in fields such as environmental science, environmental law, business, and clinical chemistry can pursue these by following the minimum requirements of the major and appropriate electives.

Inquire at the Chemistry Department Office, Physical Sciences Building, Room 319 (Telephone 887-7344) for further information about the chemistry program and academic advising and counseling.

Requirements for the bachelor of arts degree: Chemistry 215-216-217, 321-322-323, 455-456, 475, 590 and five additional upper-division units in chemistry; Physics 121, 225, 122, 226 or Physics 221, 225, 222, 226; and Mathematics 200-201-202.

Requirements for the bachelor of science degree: Chemistry 215-216-217, 321-322-323, 455-456, 475, 590 and 20 additional upper-division units in chemistry (one chemistry course must include laboratory work; an upper-division course in mathematics or physics selected in consultation with the departmental advisor may also be included); Physics 221, 225, 222, 226 and 223; Mathematics 200-201-202-203 and one applied mathematics course selected in consultation with the departmental advisor; foreign language (two terms of German or Russian or equivalent proficiency). A comprehensive examination covering the major field of study will be required in the senior year.

Requirements for a minor in chemistry: Chemistry 215-216-217, 225-226 or 321-322-323, 455, and 456 or 475; Mathematics 200-201-202; and Physics 121, 225, 122 and 226 or 221, 225, 222 and 226.

Departmental Honors: A graduating senior will be awarded departmental honors in chemistry after meeting the following requirements: at least a 3.5 average in all chemistry course work taken at the College with a minimum being...
five chemistry courses, at least a 3.0 average on the comprehensive examinations, and an A in Chemistry 595 or another demonstration of ability to do independent work in chemistry.

100. CHEMISTRY IN THE MODERN WORLD
Examination of chemistry, its use by modern man and its value to contemporary society. Designed primarily for students with no high school background in chemistry. Lecture and two hours of laboratory. (5 units)

205. FUNDAMENTALS OF CHEMISTRY I: GENERAL CHEMISTRY
Basic introduction to the concepts of chemistry, including the composition of matter and physical and chemical changes. Lecture and three hours of laboratory. Recommended preparation: one year of high school algebra. (5 units)

206. FUNDAMENTALS OF CHEMISTRY II: ORGANIC CHEMISTRY
Introduction to the chemistry of organic compounds. Lecture and three hours of laboratory. Prerequisite: Chemistry 205. (5 units)

207. FUNDAMENTALS OF CHEMISTRY III: BIOCHEMISTRY
Introduction to the principles of modern biological chemistry and to organic compounds of biological interest. Lecture and three hours of laboratory. Prerequisite: Chemistry 206. (5 units)

215. INTRODUCTORY CHEMISTRY I: ATOMIC STRUCTURE AND CHEMICAL BONDING
The first of a three-course sequence in general chemistry and quantitative analysis. Topics in this course include atomic and molecular structure, chemical bonding, states of matter and solutions. Lecture and six hours of laboratory. Recommended preparation: one year of high school chemistry and three years of high school mathematics. (6 units)

216. INTRODUCTORY CHEMISTRY II: PRINCIPLES OF CHEMICAL REACTIONS
Chemical kinetics and equilibrium, thermodynamics, redox reactions and electrochemistry, and topics in inorganic, organic, biological and environmental chemistry. Lecture and six hours of laboratory. Prerequisite: Chemistry 215 or consent of instructor. (6 units)

217. INTRODUCTORY CHEMISTRY III: MODERN QUANTITATIVE ANALYSIS
Gravimetric and volumetric analysis, chemical equilibria, modern instrumental methods and radioanalytical techniques. Lecture and six hours of laboratory. Prerequisite: Chemistry 216 or consent of instructor. (5 units)

225. ORGANIC CHEMISTRY I
Descriptive discussion of carbon compounds, including modern concepts of structure, reaction mechanisms and reactivity. Major emphasis is placed on organic compounds of biological interest. Lecture and six hours of laboratory. For nonchemistry majors only. Prerequisite: Chemistry 216 or consent of instructor. (6 units)

226. ORGANIC CHEMISTRY II
Continuation of Chemistry 225. Lecture and six hours of laboratory. Prerequisite: Chemistry 225 or consent of instructor. (6 units)

321. PRINCIPLES OF ORGANIC CHEMISTRY I
Detailed study of organic molecules and their structures, reaction mechanisms, stereochemistry and synthesis. Lecture and six hours of laboratory. Prerequisite: Chemistry 216 or consent of instructor. (5 units)

322. PRINCIPLES OF ORGANIC CHEMISTRY II
Continuation of Chemistry 321. Lecture and six hours of laboratory. Prerequisite: Chemistry 321 or consent of instructor. (5 units)
323. **PRINCIPLES OF ORGANIC CHEMISTRY III**
Continuation of Chemistry 322, including special topics in heterocyclic compounds, fats, carbohydrates, and amino acids and proteins. Lecture and six hours of laboratory. *Prerequisite: Chemistry 322 or consent of instructor. (5 units)*

392. **SCIENTIFIC GLASSBLOWING**
Principles and skills in the construction, modification and repair of scientific glass apparatus. May not be counted toward requirements for the chemistry major. (2 units)

436. **BIOCHEMISTRY I**
Chemistry of proteins, carbohydrates, lipids, and other classes of biomolecules; the kinetics, mechanism and structure of enzymes; the principles of bioenergetics; and the basic principles of metabolism. Lecture and three hours of laboratory. *Prerequisites: Chemistry 216, and 226 or 323. (5 units)*

437. **BIOCHEMISTRY II**
Biochemical processes that yield and utilize energy: metabolism of carbohydrates, lipids, amino acids, purines and nucleic acid biosynthesis. Lecture and three hours of laboratory. *Prerequisites: Chemistry 216, 226 or 323, and 436 or consent of instructor. (5 units)*

455. **PHYSICAL CHEMISTRY I**
Thermodynamics and the properties of solutions. Lecture and six hours of laboratory. *Prerequisites: Chemistry 216, Mathematics 202 and Physics 122 and 226 or 222 and 226 or consent of instructor. (6 units)*

456. **PHYSICAL CHEMISTRY II**
Phase equilibria, electrochemistry, transport properties, reaction rates and mechanisms, and quantum mechanics. Lecture and six hours of laboratory. *Prerequisite: Chemistry 455 or consent of instructor. (6 units)*

475. **INORGANIC CHEMISTRY**
Inorganic compounds and reactions. Special emphasis on group theory, structure, kinetics, and thermodynamic principles. Lecture and six hours of laboratory. *Prerequisite: Chemistry 455 or consent of instructor. (6 units)*

500. **TOPICS IN CHEMISTRY**
Lecture course on an advanced chemistry topic such as: bio-physical chemistry, history of chemistry, literature of chemistry, natural products chemistry, polymer chemistry, synthetic organic chemistry, theoretical organic chemistry or quantum mechanics. May be repeated for credit as topics change. *Prerequisite: consent of instructor. (2½ units)*

501. **ADVANCED LABORATORY TECHNIQUES**
Advanced laboratory course on a subject such as organic or inorganic chemistry. May be repeated for credit as topics change. *Prerequisites: the basic course covering the subject of the Advanced Laboratory Techniques course and consent of instructor. (2½ units)*

545. **ADVANCED ANALYTICAL CHEMISTRY**
Principles and techniques of modern instrumental analysis, including spectrophotometry, spectrosopy, chromatography, X-ray analysis, mass spectrometry and potentiometry. Lecture and six hours of laboratory. *Prerequisites: Chemistry 226 or 323 and 456 or consent of instructor. (6 units)*

576. **ADVANCED INORGANIC CHEMISTRY**
Current developments in inorganic chemistry, including coordination chemistry, non-metals and metalloids. Lecture only. *Prerequisites: Chemistry 456 and 475 or consent of instructor. (5 units)*

590. **CHEMISTRY SEMINAR**
Topics of current chemical interest, presented by students, faculty and guest speakers. May be taken once for credit toward the major requirements for graduation. *Prerequisite: Chemistry 323 or 455. (1 unit)*
595. INDEPENDENT STUDY
Laboratory and/or library research conducted under the direction of a faculty member. A total of six units in Chemistry 595 may be applied toward the major. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)
The child development major focuses on the biological, psychological and sociological aspects of human development, through an interdisciplinary approach which draws its course offerings from the departments of psychology, sociology, anthropology, biology and education as well as from the field of ethnic studies. The major provides the important advantage of promoting a holistic approach to development that no single discipline can offer.

The major is designed specifically for persons who plan to enter occupations or professions that call for child development specialists, for example, day-care workers, playground and recreation supervisors, and other positions involving work with young children and their families. The program also provides academic preparation for graduate-level training in a number of child-related professions.

_Inquire at the Psychology Department Office, Physical Sciences Building, Room 219 (Telephone 887-7226) for further information about the child development program and academic advising and counseling._

_Requirements for the major:_ Biology 100 and 315; Psychology 100, 201, 358 and 384; Sociology 100 and 339; Anthropology 330; and 20 units of approved electives, at least 10 units of which must be upper-division, chosen in consultation with an advisor, from the listing below. In addition, each student is required to complete five units of work in a practical setting involving children. This requirement may be met through Education 365 or its equivalent. One of the following is strongly recommended for students who plan to continue with graduate study: Mathematics 150, Sociology 210, Psychology 210 or Social Sciences 215.

Lower-division core:

- **BIOLOGY 100. TOPICS IN BIOLOGY**
- **PSYCHOLOGY 100. INTRODUCTION TO PSYCHOLOGY**
- **PSYCHOLOGY 201. DEVELOPMENTAL PSYCHOLOGY**
- **SOCIOLOGY 100. THE STUDY OF SOCIETY**

Upper-division core:

- **ANTHROPOLOGY 330. CROSS-CULTURAL CHILD-REARING PRACTICES**
- **BIOLOGY 315. INTRODUCTION TO HUMAN EMBRYOLOGY**
Practicum:

EDUCATION 365. INTERNSHIP IN CHILD DEVELOPMENT

Approved electives:

ANTHROPOLOGY 100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION
ANTHROPOLOGY 102. INTRODUCTION TO ANTHROPOLOGY: CULTURE AND SOCIETY
BIOLOGY 314. BIOLOGY OF HUMAN SEXUALITY
BIOLOGY 316. GENETICS OF MAN
BIOLOGY 321. EVOLUTION
EDUCATION 330. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION
EDUCATION 530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN
POLITICAL SCIENCE 450. POLITICAL SOCIALIZATION
PSYCHOLOGY 325. PSYCHOLOGY OF INFANCY
PSYCHOLOGY 391. PSYCHOPATHOLOGY OF CHILDHOOD
PSYCHOLOGY 431. EXPERIMENTAL PSYCHOLOGY: DEVELOPMENTAL
SOCIOLOGY 305. SOCIOLOGICAL RESEARCH AND ANALYSIS
SOCIOLOGY 340. SOCIOLOGY OF THE FAMILY
SOCIOLOGY 341. MARRIAGE AND THE FAMILY AMONG BLACKS
SOCIOLOGY 342. THE CHICANO FAMILY
SOCIOLOGY 352. THE JUVENILE OFFENDER
SOCIOLOGY 354. DEVIAN'T BEHAVIOR
SOCIOLOGY 480. HUMAN GROWTH AND SOCIAL ENVIRONMENT
The courses listed below are offered to support degree programs in areas such as administration, biology, chemistry, mathematics and physics as well as the certificate program in computers and programming (Page 92). Plans are underway to offer a Bachelor of Science in Computer Science. The School of Natural Sciences can provide additional details about the certificate program, computer science courses and the status of the planned B.S. degree.

Inquire at the School of Natural Sciences Office, Biological Sciences Building, Room 130 (Telephone 887-7341) for further information about the computer science offerings.

120. INTRODUCTION TO COMPUTING
Survey of computers, applications, programming and other aspects of computer science. Elementary programming exercises in BASIC will be assigned. (5 units)

131. COMPUTER PROGRAMMING I
Introduction to high-level computer language and programming methods. Techniques and style of designing, coding and documenting programs. (2½ units)

132. COMPUTER PROGRAMMING II
A continuation of Computer Science 131. Development of larger and more complex programs including file processing. Prerequisite: Computer Science 131. (2½ units)

135. INTRODUCTION TO BASIC PROGRAMMING
Introduces concepts of general interest to all programming languages with emphasis on conversational-type BASIC. No previous background is required. Appreciation and experience in the use of the time-sharing mode of a computer is gained by exercises from a wide variety of applications. May not be counted for credit by students who have received credit for Computer Science 132. (2½ units)

140. INTRODUCTION TO FORTRAN PROGRAMMING
Introduction to FORTRAN language in which the student will analyze, formulate, code, punch or type and debug a series of programs related to everyday life. A knowledge of BASIC is strongly recommended. May not be counted for credit by students who have received credit for Computer Science 240. (5 units)

160. PASCAL PROGRAMMING
Introduction to PASCAL language in which the student will analyze, formulate, code and debug a series of programs from a variety of fields. (5 units)

240. FORTRAN PROGRAMMING
FORTRAN language with emphasis on computer solution of problems reducible to algebraic models and elementary numerical methods. Prerequisites: Computer Science 131 and Mathematics 200. (5 units)

250. COBOL PROGRAMMING
COBOL language with emphasis on applications to data processing including file processing techniques. Prerequisite: Computer Science 131 or 135 or 140. (5 units)
260. ASSEMBLY LANGUAGE PROGRAMMING
Number and character representation, instruction set and format, addressing modes, indexing, program structure and linking methods. Prerequisite: Computer Science 132 or 140 or 240. (5 units)

310. COMPUTER SYSTEM ORGANIZATION I
Basic logic design, combinational and sequential logic, registers, arithmetical and logical units, memory, busses, input/output units, machine language and assembly language programming, concepts of operating systems and block organization of computer systems. Lecture and three hours of laboratory. Prerequisite: Computer Science 132 or 140 or 240. (5 units)

311. COMPUTER SYSTEM ORGANIZATION II
Continuation of Computer Science 310. Lecture and three hours of laboratory. Prerequisite: Computer Science 310. (5 units)

330. DATA STRUCTURES AND ALGORITHMS I
Data structures such as trees, stacks, lists and queues, as well as their storage allocation and associated algorithms. Prerequisite: Computer Science 140 or 240. (5 units)

450. SYSTEMS PROGRAMMING
Concepts and implementation techniques of subroutines, assemblers, loaders and compilers. Prerequisites: Computer Science 260, 311 and 330. (5 units)

595. INDEPENDENT STUDY
Laboratory and/or library research conducted under the direction of a faculty member. May not be counted toward fulfilling requirements in the computer science major. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)
CRIMINAL JUSTICE

A system of criminal justice must meet the needs of each individual citizen as well as the needs of complex social, economic and governmental institutions. The B.A. degree program in criminal justice was developed with these needs in mind and is appropriate for both career-bound preservice students and inservice personnel in law enforcement, probation, parole, corrections, social service agencies and related areas.

In addition, the program is designed to provide students with an appropriate academic background for continuing into graduate studies in criminal justice or pursuing graduate study in other areas such as law or criminology.

The criminal justice major is an interdisciplinary program with enough flexibility to permit students to pursue their own interests. For example, students wishing to emphasize law enforcement may select particularly appropriate courses within the major and are encouraged to minor in administration, political science or sociology. Students directed toward probation, parole or corrections work are advised to select courses accordingly and to take electives in psychology or sociology.

Students transferring from community colleges may substitute selected administration of justice and corrections courses for Criminal Justice 101, 102 and 103 and may be given lower-division credit toward the major for two additional courses.

Plans are underway to offer a Master of Arts degree in Criminal Justice. For further details contact the Sociology Department.

Inquire at the Sociology Department Office, Administration Building, Room 183 (Telephone 887-7252) for further information about the criminal justice program and academic advising and counseling.

Requirements for the major:
Core Courses (Prerequisites for upper-division courses)

CRIMINAL JUSTICE 101. INTRODUCTION TO CRIMINAL JUSTICE I

CRIMINAL JUSTICE 102. INTRODUCTION TO CRIMINAL JUSTICE II

CRIMINAL JUSTICE 103. CRITICAL ISSUES IN CRIMINAL JUSTICE
With the prior consent of the department, Sociology 352 or Sociology 354 may be substituted for Criminal Justice 103.

Plus
Two of the following:
CRIMINAL JUSTICE 300 A. CRIMINAL JUSTICE ADMINISTRATION: POLICE ADMINISTRATION
CRIMINAL JUSTICE 300 B. CRIMINAL JUSTICE ADMINISTRATION: COURT ADMINISTRATION
CRIMINAL JUSTICE 300 C. CRIMINAL JUSTICE ADMINISTRATION: CORRECTIONAL ADMINISTRATION
CRIMINAL JUSTICE 300 D. CRIMINAL JUSTICE ADMINISTRATION: PUBLIC AND PRIVATE SECURITY ADMINISTRATION

Plus

*SOCIOLOGY 210. SOCIOLOGICAL STATISTICS
*SOCIOLOGY 305. SOCIOLOGICAL RESEARCH AND ANALYSIS
SOCIOLOGY 350. CRIMINOLOGY
SOCIOLOGY 357. SOCIOLOGY OF LAW ENFORCEMENT
SOCIOLOGY 358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS
SOCIOLOGY 359. LAW AND SOCIETY
ANTHROPOLOGY 335. CROSS-CULTURAL PERSPECTIVES ON CRIME AND DEVIANCE
PHILOSOPHY 355. CONTEMPORARY ETHICAL ISSUES
POLITICAL SCIENCE 411. THE BILL OF RIGHTS

Plus

Four courses (to be selected in consultation with an advisor) from:

CRIMINAL JUSTICE 450. WHITE COLLAR CRIME
SOCIOLOGY 352. JUVENILE OFFENDER
SOCIOLOGY 354. DEVIAN T BEHAVIOR
SOCIOLOGY 356. SOCIOLOGY OF MENTAL ILLNESS
SOCIOLOGY 360. SOCIAL PSYCHOLOGY
SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES
SOCIOLOGY 430. URBAN SOCIOLOGY
ADMINISTRATION 302. HUMAN BEHAVIOR IN ORGANIZATIONS
ADMINISTRATION 350. ADMINISTRATIVE COMMUNICATIONS

* It is advantageous to complete Sociology 210 and 305 before taking remaining upper-division sociology courses.
*ADMINISTRATION 380. SURVEY OF PUBLIC ADMINISTRATION
ADMINISTRATION 455. HUMAN RESOURCES MANAGEMENT
ADMINISTRATION 456. PSYCHOLOGY OF HUMAN RESOURCES
PSYCHOLOGY 100. INTRODUCTION TO PSYCHOLOGY
PSYCHOLOGY 315. HELPING PROCESSES
PSYCHOLOGY 387. COMMUNITY PSYCHOLOGY
PSYCHOLOGY 390. ABNORMAL PSYCHOLOGY
POLITICAL SCIENCE 328. JUDICIAL PROCESS

*POLITICAL SCIENCE 380. SURVEY OF PUBLIC ADMINISTRATION
POLITICAL SCIENCE 410. AMERICAN CONSTITUTIONAL LAW
PHILOSOPHY 350. ETHICS
PHILOSOPHY 465. PHILOSOPHY OF LAW

Requirements for the minor:

CRIMINAL JUSTICE 101. INTRODUCTION TO CRIMINAL JUSTICE I
CRIMINAL JUSTICE 102. INTRODUCTION TO CRIMINAL JUSTICE II
SOCIOLOGY 350. CRIMINOLOGY

Plus

CRIMINAL JUSTICE 103. CRITICAL ISSUES IN CRIMINAL JUSTICE

or one of the following (with departmental consent):

SOCIOLOGY 357. SOCIOLOGY OF LAW ENFORCEMENT
SOCIOLOGY 358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

Plus

Two courses from:

SOCIOLOGY 352. JUVENILE OFFENDER
SOCIOLOGY 357. SOCIOLOGY OF LAW ENFORCEMENT
SOCIOLOGY 358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS
SOCIOLOGY 359. LAW AND SOCIETY

Honors in the Major: Students majoring in criminal justice are eligible to receive honors in criminal justice at graduation if the following conditions are met:

* Credit may not be received for both Administration 380 and Political Science 380.
met: (1) at least one-half of the course work required by the major is completed at this college, (2) at least a 3.5 GPA in the major, both at this college and overall, (3) an overall undergraduate GPA of 3.0 or better, and (4) completion of a senior project approved in advance by the program coordinator. Students interested in receiving this recognition must initiate the process by making a formal application with the Sociology Department secretary.

Certificate Program: A certificate program in criminal justice is offered by the College. Details concerning this program are found on Page 92.

101. INTRODUCTION TO CRIMINAL JUSTICE I
A descriptive overview of the adult and juvenile justice system, from the commission of crimes and offenses through sentencing and appeal procedures. Criminal justice standards and goals and the relationship of the social and behavioral sciences to criminal justice will be emphasized. (5 units)

102. INTRODUCTION TO CRIMINAL JUSTICE II
Historical development of criminal law and its contemporary application. Theories of punishment and corrections will be reviewed, as they relate to the criminal justice system. (5 units)

103. CRITICAL ISSUES IN CRIMINAL JUSTICE
Contemporary problem areas in the criminal justice system, including issues in evidence, arrest and detention, search and seizure, the ideology of crime control and criminal justice reform, and specific areas of crime (organized crime, political crime). (5 units)

300. CRIMINAL JUSTICE ADMINISTRATION
Evaluation and analysis of criminal justice administration emphasizing organizational structure, function and behavioral processes. Specific subject areas considered are:
A. Police Administration (2½ units)
B. Court Administration (2½ units)
C. Correctional Administration (2½ units)
D. Public and Private Security Administration (2½ units)

450. WHITE COLLAR CRIME
Study of America's most costly form of crime and deviance. History, causes, consequences, prevention and explanations of economic crime and abuse of power in the corporate and business world, the professions, trades, the unions and government. (5 units)

575. INTERNSHIP IN CRIMINAL JUSTICE
Supervised work and study in private or public organizations. May be repeated once for credit. Open only to majors. Prerequisites: consent of instructor and department. (5 units)

590. SEMINAR IN CRIMINAL JUSTICE
Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. Prerequisites: senior or graduate standing and consent of instructor. (5 units)

595. INDEPENDENT STUDY
In-depth research into special topics concerned with the criminal justice system utilizing readings, library and/or field research. A total of 10 units in Criminal Justice 595 may be applied toward graduation. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and program coordinator's approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)
At the present time the College does not offer a major program in earth science or geology. The courses listed below are offered to permit an elective option in general education (Earth Science 101) and in support of other major programs.

Inquire at the School of Natural Sciences Office, Biological Sciences Building, Room 130 (Telephone 887-7341) for further information about the earth science offerings.

101. PHYSICAL GEOLOGY
An introduction to the study of the earth, particularly the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. Lecture and three hours of laboratory. (5 units)

301. GEOLOGY OF CALIFORNIA
Geologic evolution of California, its structural framework and geomorphic provinces. Lecture only. Prerequisite: Earth Science 101. (5 units)

310. FIELD GEOLOGY
Field investigation of rocks and geologic structures and methods of geological observation and interpretation in a geologically noteworthy area such as Great Basin, Sierra Nevada, Transverse Ranges or selected national parks and monuments. May be repeated for credit as the topics change. Prerequisite: Earth Science 101. (2½ units)

595. INDEPENDENT STUDY
Laboratory, field or library research conducted under the direction of a faculty member. A total of six units in Earth Science 595 may be applied toward graduation. Prerequisites: a minimum overall grade-point average of 3.0, consent of the Office of the School of Natural Sciences, and approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)
Any time a choice must be made between alternatives—whether a personal decision to study math or play ball, or a governmental decision whether to spend a billion dollars on the space program or on schools—there are economic ramifications. Personal decisions sometimes are made without conscious awareness of costs and benefits involved in the alternatives. But business, government and social institutions must, if they are to use resources wisely, consciously consider economic factors in making decisions. The use of economic principles enables individuals and organizations to analyze problems in an orderly manner and to make sound choices about the economic desirability of a program or activity.

Training in economics, supplemented by course work in other disciplines, provides excellent preparation for particular careers in industry, government and many professions including management, law or consulting. Because economic problems are encountered everywhere and touch everyone's life, the study of economics also provides useful intellectual training for individuals who may be uncertain about their future plans.

Inquire at the Economics Department Office, Student Services Building, Room 139 (Telephone 887-7278) for further information about the economics program and academic advising and counseling.

Requirements for the major: Economics 100, 102, 300, 302, and at least 30 upper-division units. With approval of a departmental advisor, up to 10 units in related fields may be counted toward the upper-division course requirement in economics. Mathematics 110 and Administration 210 or equivalent are also required. Mathematics 200 is highly recommended.

Requirements for a minor in economics: Economics 100, 102, 300, 302, plus 10 units of upper-division economics.

Departmental Honors: Departmental honors will be awarded upon graduation to students majoring in economics who have earned a 3.5 grade-point average in all economics courses attempted, completed at least half of all work in economics at this College and been recommended for departmental honors by economics faculty.

100. PRINCIPLES OF MACROECONOMICS
Introduction to the theory of national income determination with particular emphasis on employment and unemployment, price levels, monetary and fiscal policies, international economic issues and theories of economic growth. (5 units)

102. PRINCIPLES OF MICROECONOMICS
Introduction to the economic principles which govern production, exchange, the pricing of goods, services and resources and the distribution of incomes in competitive and non-competitive markets. (5 units)
104. INTRODUCTION TO ECONOMICS
Economic models, ideas and approaches to social issues. Cannot be counted toward fulfillment of requirements in the economics major. (5 units)

300. INTERMEDIATE MACROECONOMICS
Analysis of the problems of measurement and determination of levels of national income, and investigation of macroeconomic policy issues including inflation and unemployment. Prerequisite: Economics 100. (5 units)

302. INTERMEDIATE MICROECONOMICS
Detailed analysis of economic behavior of consumers and producers in competitive and non-competitive markets, and of the criteria for achieving optimality in the allocation and use of resources. Prerequisite: Economics 102. (5 units)

305. INTENSIVE INTRODUCTORY ECONOMICS
An intensive introduction to micro- and macroeconomic concepts for graduate students. Not open to students with credit in Economics 100 and 102. Prerequisite: graduate standing. (5 units)

352. THE ECONOMICS OF POVERTY AND DISCRIMINATION
Investigation of the incidence of poverty among ethnic and racial minorities, women and the aged in the U.S.; analysis of discrimination and other causes of poverty among these groups; survey of methods for minimizing poverty in the United States. (5 units)

360. ECONOMICS OF THE ENVIRONMENT
Economic causes and implications of air and water pollution, urban congestion, natural resource depletion and population growth; examination of the economic impacts of alternative forms of environmental control and protection. (5 units)

370. THE AMERICAN ECONOMY
Development and structure of the American economy. (5 units)

390. SELECTED TOPICS IN ECONOMICS
Examination of selected topics of current interest in economics. May be repeated for credit as topics change. (5 units)

410. MONEY AND BANKING
Demand for money, creation and manipulation of the money supply, and the role of banking and other financial institutions in the United States in determining the level of employment, prices and international payments equilibrium. Prerequisite: Economics 100. (5 units)

420. COMPARATIVE ECONOMIC SYSTEMS
Comparison of theories and forms of organization of major contemporary economic systems such as those found in command, market-socialism and predominantly free-enterprise economies. Prerequisite: Economics 100. (5 units)

430. INTERNATIONAL ECONOMICS
Theory of economic growth through international specialization and exchange with emphasis on economic disturbances in international markets, mechanisms for adjustment, policies bearing on international trade and selected current issues. Prerequisites: Economics 100 and 102. (5 units)

450. ECONOMIC DEVELOPMENT
Economic problems confronting developing countries; policies hypothesized to achieve desired rates of economic development in these areas. (5 units)
460. LABOR ECONOMICS
Micro- and macroeconomic aspects of labor markets including the workings of labor markets in competitive and non-competitive markets, structure and causes of unemployment, incomes policies, and selected institutional topics including the economics of U.S. labor movements. Prerequisite: Economics 102. (5 units)

475. PUBLIC FINANCE
Rationale for government actions in an economy which emphasizes private sector allocation; principles of taxation, theories of tax incidence, expenditure evaluation, government sources and uses of revenue, and government budgeting. Prerequisite: Economics 102 or consent of instructor. (5 units)

480. INTRODUCTION TO MATHEMATICAL ECONOMICS
Application of mathematical concepts and techniques to economic models of optimization by consumers and producers, to models of price determination and to the study of input-output techniques. Prerequisites: Economics 102 and Mathematics 200. (5 units)

490. INTRODUCTION TO ECONOMETRICS
Various statistical methods of testing economic hypotheses. Prerequisites: Economics 100, 102, Mathematics 110, and Administration 210, or equivalent. (5 units)

500. HISTORY OF ECONOMIC THOUGHT
Survey of the development of economic doctrines and analyses and concurrent intellectual and social history with emphasis on the ideas of landmark economists from Adam Smith to John Maynard Keynes. Prerequisite: Economics 102. (5 units)

590. SEMINAR IN ECONOMICS
Intensive study of some phase of economics. May be repeated for credit as subject matter changes and with consent of instructor. (5 units)

595. INDEPENDENT STUDY
Investigation of special topics not covered by the department's curricular offerings. A total of 10 units in Economics 595 may be applied toward the major and graduation. Prerequisites: A minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)
EDUCATION

The School of Education offers course work designed to prepare students for a variety of careers in education. At the present time, the College is approved to offer the following credentials through the Department of Teacher Education:

- Multiple subjects teaching credential for teaching in a self-contained classroom (all grades),
- Multiple subjects teaching credential with emphasis in bilingual/cross-cultural teaching in a self-contained classroom (all grades),
- Single subject credential for teaching a single subject in a departmentalized school (all grades),
- Designated subjects teaching credential for technical, trade or vocational subjects. For information concerning the Bachelor of Vocational Education see page 272.

Plans are underway to offer a single subject credential with emphasis in adapted physical education.

In general, students electing to pursue an emphasis in elementary teaching should undertake one of the multiple subjects credentials. Students wishing to follow an emphasis in secondary teaching should pursue the single subject credential.

In addition the following credentials are offered through the Department of Special Programs:

- Administrative services credential,
- Bilingual/cross-cultural specialist credential,
- Designated subjects program supervision and coordination credential,
- Health services credential,
- Pupil personnel services credential in counseling,
- Reading specialist credential,
- School psychologist services credential,
- Special education specialist credential (learning handicapped),
- Special education specialist credential (severely handicapped).

Since these credential programs all require a basic teaching credential or teaching experience (with the exception of the pupil personnel services credential), their requirements are not listed in this bulletin. Information on these programs is detailed in the Graduate Bulletin.

The school offers a program leading to the Bachelor of Vocational Education degree. Further information about this degree is provided on Page 272.

A Master of Arts degree is offered with options available in elementary education, secondary education, history and English for secondary teachers, reading, counselor education, school administration, special education, bilingual/cross-cultural education and vocational education. Inservice course work also is available to personnel currently employed in education or for those interested in
Admission to the Teacher Education Program

Admission to the College must precede admission to the credential program. During the first week of every term, all new credential candidates (juniors, seniors and graduate students) must apply for admission to the School of Education. Special meetings are held for this purpose, with times and places announced in advance. Students may enroll in Education 330 (Psychological Foundations of Education), Education 345 (Reading in the Elementary School) or Education 445 (Teaching Reading and Writing in Secondary School Subjects) and Education 440 (Secondary Curriculum and Instruction I) without being formally admitted to the program. Admission is based on the following criteria:

1. Three written recommendations, at least two from faculty members in the student's major department.
2. Interview by a member of the School of Education faculty.
3. Health clearance secured from the College Health Service.
4. Academic achievement.
   All applicants must possess a minimum grade-point average of 2.5 in course work in the major field and in the last 90 quarter units completed. A 2.7 grade-point average in professional education course work is also required. No candidate may be recommended for either the single subject or the multiple subjects credential who has received a grade of less than C (2.0) in any course required for the credential. In the case of a repeated class, only the highest grade that the student has received would be considered for the purpose of this requirement.
5. Completion of an approved program in a major field or satisfactory completion of the required state examination.
6. A signed affidavit by the applicant indicating no criminal convictions which would preclude the issuance of a credential.

In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and many-sided interests.

All course work taken at another college, or more than seven years ago, is subject to approval by an advisor in the School of Education.

One quarter in advance of the time students intend to enroll in student teaching they must complete an application for student teaching. At that time, each applicant is reviewed in terms of all of the above criteria and in addition, each must have completed the prerequisite course work in education and be at least of senior standing.

Inquire at the School of Education Office, Library-Classroom Building, Room 43 (Telephone 887-7571) for further information about the education programs and academic advising and counseling.

Major

The multiple subjects teaching credential requires a student to complete satisfactorily an examination covering the following fields of study: English, humanities, social science, science and mathematics. Students who choose the liberal studies major on this campus, or an approved diversified major on another campus, do not need to take the examination. (Information on this program may be found on Page 204 of this Bulletin.)
The single subject teaching credential requires a student to complete an approved program of study or complete a required state examination. Approved fields of study and the corresponding degree program approved on this campus for the waiver of the state examination are:

<table>
<thead>
<tr>
<th>Single subject credential</th>
<th>Degree major</th>
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<td>English</td>
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<tr>
<td></td>
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<tr>
<td>Foreign language</td>
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<tr>
<td>Life science</td>
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<td></td>
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<tr>
<td>Mathematics</td>
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<td></td>
<td>B.S. Mathematics</td>
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<td>Music</td>
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<tr>
<td>Physical science</td>
<td>B.A. Chemistry</td>
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<td></td>
<td>B.S. Chemistry</td>
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<td></td>
<td>B.A. Physics</td>
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<td></td>
<td>B.S. Physics (pending)</td>
<td>239</td>
</tr>
<tr>
<td>Social science</td>
<td>B.A. Social Sciences</td>
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</tbody>
</table>

For further information on other majors, examinations and waivers, students should contact the School of Education. For information concerning the Bachelor of Vocational Education see Page 272.

Curriculum Requirements

Requirements for the multiple subjects teaching credential: Education 330, 340, 341, 345 (or successful completion of the appropriate National Teacher Examination in reading) and 411AB.

Requirements for the multiple subjects teaching credential with the bilingual/cross-cultural emphasis: Education 330, 340, 344, 345 and 411AB.

Requirements for the single subjects teaching credential: Education 330, 440, 441 or the appropriate "499" courses (methods and materials for teaching in a single subject field), 445 (or successful completion of the appropriate National Teacher Examination in reading) and 421AB.

Additional requirements in health education and the United States Constitution must also be satisfied for each of the above credentials. There also are additional requirements in special education for the multiple subjects credential.

For the above credentials, completion of Education 345 (for the multiple subjects credential) or Education 445 (for the single subjects credential) or the successful completion of the appropriate National Teacher Examination in reading is prerequisite to student teaching. Students must apply for student teaching one quarter in advance of the time they intend to student teach and must be of at least senior standing. Student teaching for both credentials is a full-time assignment for two quarters, and no concurrent course work may be taken beyond the required methods courses.

Upon completing the requirements for the baccalaureate degree and two quarters of student teaching, candidates may apply for a preliminary credential. Within five years candidates must complete a fifth year of study (45 quarter hours of approved upper-division and/or graduate course work beyond the
and meet the health education and the United States Constitution requirements to obtain a clear credential.

Students may fulfill the health education requirement by taking one of the following courses: Health Science 330, 336, 337, 426, 435 and 440.

Students may fulfill the United States Constitution requirement either by successfully completing an examination administered through the College Counseling and Testing Center or by taking one of the following courses: History 200 or 540, Political Science 203, 410 or 411, and Social Sciences 146.

The multiple subjects special education requirement may be fulfilled by taking one of the following courses: Education 530 or 542. The single subject special education requirement is met in the regular course work for the credential (Education 330, 421AB, 440 and 445). However, any single subjects student who has not taken the complete series of courses at this College since the beginning of the winter quarter 1979 can fulfill the special education requirement by taking one of the following: Education 530 or Education 602 when the topic is the exceptional student.

Requirements for the designated subjects teaching credential: Vocational core: Education 501, 502 and 503. (Education 501 is required for the part-time teaching credential and Education 501, 502 and 503 are required for the full-time credential.) Nonvocational core: Education 504, 505 and 506. (Education 504 and 505 are required for the part-time teaching credential and Education 504, 505 and 506 are required for the full-time credential.) The designated subjects teaching credential requires approved prior work experience. In addition, certain prescriptive electives may be added to the curriculum of a given candidate in order to meet specific needs. These needs may be determined by the school district in which the candidate is employed or by the designated subjects coordinator. (See also, Vocational Education, Page 272.)

Certificate Programs: The School of Education offers certificate programs in education of the gifted and talented and in educational technology. Details concerning these programs are found beginning on Page 93.

330. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION
Learning, motivation, evaluation, and human growth and development as applied to teaching. A minimum of 24 hours per quarter of field experience at an approved setting is required. (5 units)

340. ELEMENTARY CURRICULUM AND METHODS I
Introductory course in elementary curriculum and basic teaching techniques with emphasis on mathematics and science. Prerequisite: Education 330. Must be taken concurrently with student teaching. (5 units)

341. ELEMENTARY CURRICULUM AND METHODS II
Introductory course in elementary curriculum and basic teaching techniques with emphasis on social science and language arts. Prerequisite: Education 330. Must be taken concurrently with student teaching. (5 units)

344. CURRICULUM AND METHODS FOR BILINGUAL/CROSS-CULTURAL EDUCATION
Bilingual/cross-cultural teaching strategies and materials development. Emphasis on teaching language arts in Spanish, ESL and SSL teaching techniques and development of units of study based on multi-cultural themes and concepts. Prerequisites: Spanish 302 (or the equivalent) with grade of "C" or better and demonstrated oral competence in Spanish. To be taken concurrently with student teaching. (5 units)
345. READING IN THE ELEMENTARY SCHOOL
Methods of teaching reading in the elementary school including skills in the diagnosis of reading
difficulties, organization for instruction, selection of appropriate methods and use of instructional
materials. A minimum of 24 hours per quarter of field experience at an approved setting is required.
(5 units)

365. INTERNSHIP IN CHILD DEVELOPMENT
Supervised work and study in settings involving young children. Prerequisite: completion of upper-
division core courses in child development or consent of instructor. (5 units)

411. ELEMENTARY STUDENT TEACHING
Full-time teaching in the public schools. Graded credit/no credit.
A. Must be taken concurrently with Education 340. Prerequisite: admission to the program. (10
units)
B. Must be taken concurrently with Education 341. Prerequisite: satisfactory completion of Educa-
tion 411A and consent of advisor. (10 units)

421. SECONDARY STUDENT TEACHING
Full-time teaching in the junior or senior high school. Graded credit/no credit.
A. Prerequisite: consent of advisor. (10 units)
B. Prerequisite: Satisfactory completion of Education 421A and consent of advisor. (10 units)

440. SECONDARY SCHOOL CURRICULUM AND INSTRUCTION I
Introductory course in secondary curriculum and teaching methods with emphasis on instructional
planning, strategies and evaluation, and classroom management. A minimum of 10 hours per quarter
of classroom observations in an approved setting is required. Prerequisite: Education 330 or concur-
rent enrollment in Education 330. (5 units)

441. SECONDARY SCHOOL CURRICULUM AND INSTRUCTION II
Introductory course in secondary curriculum and teaching methods with emphasis on subject area
materials, mediated materials, secondary curriculum and legal aspects of teaching as a profession.
To be taken concurrently with student teaching. Prerequisite: Education 330. (5 units)

445. TEACHING READING AND WRITING IN SECONDARY SCHOOL SUBJECTS
Methods of diagnosing and teaching specific reading and writing skills in secondary school subjects.
A minimum of 24 hours per quarter of field experiences in an approved setting is required. Prerequi-
site: Education 330 or concurrent enrollment in Education 330. (5 units)

501. PRINCIPLES AND METHODS FOR TEACHING DESIGNATED SUBJECTS
Consideration will be given to course and lesson planning, instruction and evaluation, human
relations and cultures, curriculum, course and program administrative procedures, student support
services. Prerequisites: admission to program and/or consent of coordinator of designated subjects.
(5 units)

502. ADVANCED METHODS AND MANAGEMENT IN TEACHING DESIGNATED
SUBJECTS I
Consideration will be given to laws pertaining to vocational education, youth leadership programs,
budgeting, purchasing, student recruitment, selection and advisement for career education pro-
grams. Prerequisite: Education 501 or consent of instructor or coordinator of designated subjects.
(5 units)

503. ADVANCED METHODS AND MANAGEMENT IN TEACHING DESIGNATED
SUBJECTS II
Consideration will be given to work experience programs, articulation, needs assessment, competen-
cy-based curriculum and evaluation, programs for the handicapped, programs for the culturally
different. Prerequisites: Education 501 and Education 502 or consent of instructor or coordinator of
designated subjects. (5 units)
504. PRINCIPLES OF ADULT EDUCATION
History, philosophy and social significance of adult education, especially in California; the adult as a student; the characteristics of successful teachers of adults. (One of two courses required for renewal of the Fisher Bill adult education credential.) (5 units)

505. METHODS AND MATERIALS OF ADULT EDUCATION
Methods of organizing course work and presenting subject matter for adults. Classroom management, audio-visual techniques, participatory activities and evaluation procedures. (One of two courses required for renewal of the Fisher Bill adult education credential.) (5 units)

506. CONTEMPORARY ISSUES IN ADULT EDUCATION
Issues, trends and innovations in adult education. (5 units)

507. INTRODUCTION TO THE COORDINATION AND SUPERVISION OF DESIGNATED SUBJECTS PROGRAMS
Topics related to elements and techniques of coordination and supervision of designated subjects programs. Prerequisite: admission to program and/or consent of coordinator of designated subjects program. (2 1/2 units)

508. ORGANIZATION AND STRUCTURE OF DESIGNATED SUBJECTS PROGRAMS
Topics related to facility planning: program evaluation, budgeting, school law, funding sources and manpower data. Prerequisites: admission to program, Education 507 and consent of coordinator of designated subjects program. (2 1/2 units)

509. SUPERVISION AND PERSONNEL MANAGEMENT IN DESIGNATED SUBJECTS
Topics related to selection, evaluation, development and supervision of personnel in designated subjects programs. Prerequisites: admission to program, Education 508 and consent of coordinator of designated subjects program. (2 1/2 units)

510. FIELD WORK IN COORDINATION AND SUPERVISION OF DESIGNATED SUBJECTS PROGRAMS
Supervised field work in coordination and supervision of designated subjects programs. Prerequisites: admission to program, Education 507, 508, 509, and consent of coordinator of designated subjects program. (2 1/2 units)

530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN
Educational implications of physical, intellectual, social and emotional deviations among children and youth. (5 units)

531. INTRODUCTION TO COUNSELING
Experience-based introduction to counseling and its techniques. This course cannot be counted among the 45 units required in the counselor education option in the M.A. program. Prerequisite: consent of instructor. (5 units)

532. TEACHING LEARNING HANDICAPPED/SEVERELY HANDICAPPED STUDENTS
Planning and evaluating programs for learning handicapped and severely handicapped students. Course includes diagnosis and remediation. (5 units)

536. TEACHING THE CULTURALLY DIFFERENT
Cultural democracy and the quest for equal educational opportunity. Methods and teaching techniques for teaching in a multi-cultural setting. Developing cultural awareness of teachers to assist them in relating to and motivating culturally different students. (5 units)

538. INTRODUCTION TO TEACHING THE GIFTED AND TALENTED
Definition, characteristics and development of the gifted and talented individual. Identification procedures. Current legislation and educational practices. Prerequisite: consent of instructor. (5 units)
539. PROGRAMS FOR TEACHING THE GIFTED AND TALENTED
Development of school programs for gifted and talented: identification, objectives, scheduling, curriculum, materials, program assessment. Prerequisites: Education 538 and consent of instructor. (5 units)

541. PROBLEMS IN ELEMENTARY CURRICULUM
Advanced study of some phase of the elementary school curriculum. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (2-5 units)

542. SEMINAR IN EDUCATION
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (2-5 units)

543. INDIVIDUALIZED INSTRUCTION
An individualized course on techniques and procedures for constructing materials, tracking students, classroom management, learning centers, record keeping and media involvement for individualizing instruction at all levels. (5 units)

544. CONSTRUCTION OF INSTRUCTIONAL MATERIALS
Various ways to design and produce instructional materials. Emphasis on use of media to meet instructional objectives. Procedures for systematic evaluation of instructional materials. (5 units)

546. MICROCOMPUTERS IN EDUCATION
Construction of programs for use on a microcomputer. Introduction to course writer languages and comparison of computer capabilities and modes. Prerequisite: consent of instructor. (5 units)

547. EDUCATIONAL TECHNOLOGY
Introduction to instructional systems. Components to include video-disc, satellite down links, computers, brain games and video. Storage and retrieval systems will be included. Prerequisite: consent of instructor. (5 units)

548. SEMINAR IN INSTRUCTIONAL DESIGN
Theories of instruction; design and production of instructional modules including specification and analysis of objectives, measurement, instructional activities and selection of methods and materials and evaluation techniques. Prerequisite: consent of instructor. (5 units)

595. INDEPENDENT STUDY
Special topics involving library and/or field research. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and school approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 5 units)

600-level courses are open to postbaccalaureate and graduate students only.

600. MASTER'S DEGREE PROJECT
Prerequisite: advancement to candidacy. A. (2½ units) B. (2½ units)

602. SPECIAL TOPICS IN SECONDARY EDUCATION
Exploration, demonstration and application of issues and techniques in selected topics of current concern in secondary education (such as, inquiry-discovery teaching, simulations and games, alternate education programs, consumer education, team teaching, career education, teacher as counselor). May be repeated for credit as topics change. (2½ units)

603.* INTERPERSONAL RELATIONS AND COMMUNICATIONS IN EDUCATION
Dynamics of interpersonal communication with an emphasis on the characteristics of an individual's participation in small groups within educational structures. To be taken during the first 15 units or before advancement to candidacy. (2½ units)
604. ADVANCED CURRICULAR STUDIES IN ELEMENTARY EDUCATION
Current and new curricula in elementary school subjects (K-6). Five units are required in the M.A. option in elementary education. May be repeated once in the same subject area. Prerequisite: teaching credential or consent of instructor.
A. Mathematics (2 units)
B. Science (2 units)
C. Social Studies (2 units)
D. Language Arts (2 units)
E. Fine Arts (2 units)

608. RESEARCH IN BILINGUAL/CROSS-CULTURAL EDUCATION
Survey of current research in bilingual/cross-cultural education and its application in the classroom. (5 units)

609. RESEARCH IN ELEMENTARY SCHOOL SUBJECTS
A review of research in specific subjects of the elementary school curriculum (K-6). May be repeated for credit as topics change.
A. Mathematics (5 units)
B. Science (5 units)
C. Social Studies (5 units)
D. Language Arts (5 units)
E. Fine Arts (5 units)

610. RESEARCH METHODOLOGY IN EDUCATION
Principles of research design, methods of data collection and analysis. (5 units)

619. APPRAISAL PROCEDURES IN COUNSELING
Individual and group measurement with emphasis on behavior observation skills, test interpretation in counseling, and an introduction to personality, intelligence, vocational, achievement and projective measurements. Prerequisite: Education 531 or consent of instructor. (5 units)

620. EFFECTIVE CLASSROOM COMMUNICATIONS
Tools and techniques of effective communication in the classroom. Emphasis on reading strategies. (5 units)

621. PSYCHOLOGY OF READING
Psychological processes of reading, various reading "models"; alternative strategies effective with standard and non-standard dialects. Prerequisite: Education 620 or consent of instructor. (5 units)

622. SELECTION OF READING APPROACHES AND MATERIALS
Making critical judgments in selection of approaches and materials based on historical views of reading. Prerequisites: Education 620, 621, 631, or consent of instructor. (5 units)

623. DIAGNOSTIC/PRESCRIPTIVE TEACHING IN READING
Diagnosing reading proficiency through personal interview, observation, and formal and informal oral and silent reading tests. Effective matching of strategies and materials with diagnosed problems and content. Prerequisites: Education 620, 621, 622, 631, 634, or consent of instructor. (5 units)

624. PSYCHOLOGY OF LANGUAGE, THOUGHT AND EXPRESSION
Important aspects of oral language acquisition and development; cuing systems; similarities and differences in oral and written language and implications for instruction. Prerequisites: Education 620, 621, 622, 631, 634, or consent of instructor. (5 units)

625. READING CLINIC
Laboratory setting for administering diagnostic tests to clients from the community, prescribing appropriate remedies in skills and content areas. Prerequisites: Education 620, 621, 622, 623, 624, 631, 634, or consent of instructor. (5 units)
628. SPECIAL PROBLEMS IN READING
Problems in planning and implementing school-wide and district-wide reading programs including
methods of gathering data, analyzing data and writing programs. Final candidate assessment.
Prerequisites: Education 620, 621, 622, 623, 624, 625, 629, 631, 634, 679C. (5 units)

629. SPECIAL TOPICS IN READING
Relevant issues, techniques and topics in reading. May be repeated for credit as topics change. (2½
units)

630. TOPICS IN RESEARCH IN TEACHING AND LEARNING
Survey of current research in teaching and learning. May be repeated for credit as topics change.
Prerequisites: Education 538 and consent of instructor. (5 units)

631. DEVELOPMENTAL READING
Overview of developmental reading for the experienced teacher; emphasis on procedures utilized
at elementary and/or secondary levels. Prerequisites: Education 345 or 445 or equivalent course. (5
units)

634. CHARACTERISTICS OF READING ASSESSMENT AND REPORTING
Use of informal reading inventories, standardized reading tests and other instruments to assess
student growth. Prerequisite: Education 620 or consent of instructor. (5 units)

637. FOUNDATIONS OF VOCATIONAL EDUCATION
Historical context, philosophy and development of vocational education. Prerequisite: consent of
coordinator of designated subjects program. (5 units)

638. ADMINISTRATION OF VOCATIONAL EDUCATION PROGRAMS
Administrative and supervisory procedures in curriculum design, teacher education, staffing, financ­
ing, program development, community and articulation procedures. Prerequisite: consent of coordi­
nator of designated subjects program. (5 units)

639. SEMINAR: SYSTEMS AND PROCEDURES IN VOCATIONAL EDUCATION
Individual and group study of problems and proposed solutions in the systems and procedures in
vocational education. Prerequisites: Education 637, 638 and consent of coordinator of designated
subjects program. (5 units)

640. ELEMENTARY SCHOOL CURRICULUM
History, organization and operation of the elementary school; curriculum trends; newer practices
in elementary education. Prerequisite: credential or teaching experience. (5 units)

641. MEDIA AND STRATEGIES IN TEACHING
An assessment of media used in instruction with emphasis on teaching strategies and principles of
learning. (5 units)

644. PROBLEMS IN EDUCATIONAL ASSESSMENT
Teacher-made tests, standardized tests and other published instruments of use in assessing growth
in the affective, psychomotor and cognitive domains. (5 units)

647. INDIVIDUAL TESTING AND CASE STUDY TECHNIQUES I
Intensive practice in administration and interpretation of Wechsler scales: Wechsler Preschool and
Primary Scale of Intelligence, Wechsler Adult Intelligence Scale and Wechsler Intelligence Scale for
Children Revised. Prerequisite: pupil personnel services credential. (5 units)

648. INDIVIDUAL TESTING AND CASE STUDY TECHNIQUES II
Intensive practice in administration and interpretation of Stanford-Binet and selected personality
measures with attention to integration of results in case studies. Prerequisite: pupil personnel services
credential. (5 units)
650. EDUCATIONAL AND CAREER PLANNING
Theory of occupational choice, labor force data, and implementation and continuation of career advisement programs. (5 units)

652. DYNAMICS OF HUMAN BEHAVIOR
An experience-oriented study of human behavior with attention to physical, psychological, individual and societal processes. Prerequisites: Education 531 (grade of B, minimum), Education 656 or consent of instructor. (5 units)

653. THE PROFESSIONAL GUIDANCE WORKER
Ethics and legal aspects of counseling, especially applied to educational settings; utilization of community resources; consultation; in-service training. (5 units)

655. CROSS-CULTURAL COUNSELING
Examination of diversity of cultural ethnic experiences and the nature of prejudice. Consideration of techniques found to be most effective in cross-cultural counseling. Prerequisite: consent of instructor. (5 units)

656. COUNSELING THEORIES AND TECHNIQUES
Theories and techniques of counseling; application to educational settings; experiential orientation. Prerequisite: Education 531 or consent of instructor. (5 units)

657. COUNSELING PRACTICUM
A. Supervised practice in the application of counseling skills, theories and techniques. Prerequisites: Education 531, 652 and 656. (5 units)
B. Supervised practice in counseling in a laboratory setting. Prerequisite: Education 657A and 677 with a grade of B or better. (5 units)

660. SEMINAR IN DEVELOPMENT AND LEARNING
Interdisciplinary approach in understanding cognitive, social and emotional development with emphasis on developmental patterns and implications for early childhood programs. Analysis of selected research and cross cultural studies. Prerequisite: completion of introductory course in child development or equivalent. (5 units)

665. SEMINAR IN ADULT LEADERSHIP
Methods of composing, conducting and communicating with adult groups. Emphasis on techniques for developing interest and involvement; interpreting early education concepts to parents, paraprofessionals, staff, management and community agencies. (2½ units)

668. PRACTICUM: SEVERELY HANDICAPPED
Development and utilization of educational assessment techniques, counseling students and parents, directed teaching in educational settings, weekly seminars required. Prerequisites: Education 530, 532, 644, 688.
A. Developmentally Disabled (5 units)
B. Autistic (5 units)
C. Trainable Mentally Retarded (5 units)
D. Severely Emotionally Disturbed (5 units)

673. INTRODUCTION TO SCHOOL ADMINISTRATION
Exploration of current administrative problems at the school and district level, self-assessment of the student's potential as a school administrator. (5 units)

674. SCHOOL ADMINISTRATION AND SUPERVISION
Principles and practices of school administration, including personnel relations, instructional leadership, school organization, relationships with pupils and community. Prerequisites for B and C: Education 530 and 673.
A. Early Childhood Education (5 units)
B. Elementary Education (5 units)
C. Secondary Education (5 units)
675. LEGAL AND FINANCIAL ASPECTS OF EDUCATION
Consideration of current governance, legal and financial processes including local, state and national issues. Emphasis on recent laws and court cases affecting public schools. Prerequisite: Education 674B or 674C. (5 units)

676. SCHOOL COMMUNITY RELATIONS
Interaction with the community, including school boards, community groups and leaders of a variety of ethnic groups; relations with media. Prerequisite: Education 674B or 674C. (5 units)

677. GROUP COUNSELING AND GUIDANCE
Theories and methods of facilitating counseling and guidance in groups; educational applications; experience-based. Prerequisites: Education 531, 652, 656, or consent of instructor. (5 units)

679. FIELD WORK
Field experiences in selected program topics. With the exception of 679C, all topics must be repeated for a total of five units. Prerequisite: consent of program coordinator.
A. Bilingual Education (2 units)
B. Counseling Completion of Education 657AB and 677 with a grade of B or better. (2 units)
C. Reading (2 units)
D. School Administration (2 units)
E. Special Education (2 units)
F. Education of the Gifted and Talented (2 units)

680. STUDIES IN INTERNATIONAL EDUCATION
Studies of educational systems and practices in selected countries. Techniques for research in international education. (5 units)

681. DIAGNOSTIC/PRESCRIPTIVE TECHNIQUES FOR THE LEARNING HANDICAPPED
Techniques for the assessment of learning disabilities in relation to psychological, genetic, physiological, social and cultural conditions. Prerequisites: Education 530 and 532, or consent of instructor. (5 units)

682. CURRICULUM DEVELOPMENT FOR LEARNING HANDICAPPED
Development and effective use of individual behavioral and instructional objectives and of appropriate instructional processes and strategies with learning handicapped. Prerequisites: Education 530, 532, 681, or consent of instructor. (5 units)

683. CASE WORK IN TEACHING THE LEARNING HANDICAPPED
Systematic observation, academic assessment, clinical assessment, clinical teaching and specialized formal evaluation procedures applied to learning handicapped pupils. Prerequisites: Education 530, 532, 625, 681 and 682. (5 units)

685. METHODS AND MATERIALS FOR THE BILINGUAL/CROSS-CULTURAL CLASSROOM
Bilingual/cross-cultural teaching strategies; emphasis on methods of integrating English/Spanish into the instructional program. Assessment of bilingual materials; criteria for teacher-made materials; performance objectives, criterion-referenced curriculum and testing; use of classroom paraprofessionals. Prerequisite: consent of instructor. (5 units)

686. SEMINAR IN COUNSELING OF CHILDREN AND PARENTS
Study of theories and techniques in counseling with parents and children. Emphasis on methodology and application of counseling skills. Prerequisite: pupil personnel services credential. (5 units)

687. SCHOOL PSYCHOLOGISTS AS CHANGE AGENTS: THEORY AND PRACTICE
Organizational models, systems analysis, powers and change theories and strategies as applied to educational institutions. Prerequisite: pupil personnel services credential. (5 units)
688. ETIOLOGY AND DIAGNOSIS OF THE SEVERELY HANDICAPPED
Etiology and diagnosis of severely handicapped students; diagnostic/prescriptive programming; curriculum and methodology for various ability levels. Prerequisites: Education 530, 532, 644. (5 units)

689. FIELD WORK FOR SCHOOL PSYCHOLOGISTS
Supervised field work for prospective school psychologists in the schools. Regular seminars and conferences required. Prerequisites: pupil personnel services credential and Education 623, 647, 648, 660, 681, 686, and Psychology 391 or consent of instructor.
A. (2½ units)
B. (2½ units)
C. (2½ units)

693. SPECIAL TOPICS IN SCHOOL PSYCHOLOGY
Selected topics in school psychology, such as professional issues, ethics and current practices, applicable State Education Codes and court decisions, use of community resources; in-service training theory and practicum. May be repeated for credit as topics change. Prerequisites: pupil personnel services credential, Education 623, 647, 648, 660, 681, Psychology 391 or consent of instructor. (5 units)

694. CASEWORK: SEVERELY HANDICAPPED
Systematic observation; advanced academic assessment, clinical teaching and specialized evaluation/consultation procedures applied to severely handicapped pupils. Prerequisites: Education 530, 532, 644, 668, 688. (5 units)

695. FOUNDATIONS OF EDUCATION
History and theory of education within the setting of American society. To be taken during the first 15 units of course work or before advancement to candidacy. (5 units)

696. SPECIAL TOPICS IN COUNSELOR EDUCATION
Relevant issues in counselor education. May be repeated for credit as topics change. (2½ units)

697. ASSESSMENT SEMINAR
Emphasizes interpretation of roles, processes and relationships within educational structures relative to personal orientation, beliefs and values. Prerequisites: Education 603, 695 and consent of advisor. This course must be taken during the last 7½ units of course work toward the M.A. degree. (2½ units)

698. EXTENDED ENROLLMENT
Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. Prerequisites: advancement to candidacy and consent of school. (0 units)

699. SECONDARY SCHOOL CURRICULUM
Study of the development of the American secondary school with emphasis on current and emerging patterns of organization and curriculum. Prerequisite: graduate standing. (5 units)
ENGLISH

Everyone has his own reasons for studying literature but these personal feel­ings tend to take for granted one common notion: the experience of great poetry, fiction and drama makes a person more aware of himself and his world, more human.

The English department at California State College, San Bernardino is, like most college or university English departments, devoted mainly to the study of literature. The literature courses are arranged in different ways; some analyze a specific genre (poetry, fiction, drama); some treat a particular period (the sixteenth century, the Romantic period); some deal with an individual author, area or problem (Shakespeare, modern American poetry, Black literature, fantasy).

The department offers additional courses in the history and structure of the language and in advanced composition. Courses in creative writing give students the opportunity to write poetry or fiction under the direction of an experienced writer. Courses in journalism give students the chance to develop professional skills under the direction of a working newspaperman.

English majors enter many careers, such as teaching, journalism, publishing, advertising, writing, business and industry. They may also enter graduate and professional schools for the further study of English or for training in such fields as library science and law. Students having the abilities the English major is designed to foster—perceptive reading, skillful writing and a developed sense of imagination and originality—are particularly well-equipped for the needs of a changing society.

Students majoring in English who also wish to pursue a liberal studies major (diversified major) for elementary school teaching should consult with the department chair.

Inquire at the English Department Office, Library-Classroom Building, Room 248 (Telephone 887-7446) for further information about the English program and academic advising and counseling.

Requirements for the major: 13 courses, of which 11 must be upper division. Required are two courses from English 120, 121, 140; two courses from English 301, 302, 303; two courses from English 401, 403, 406, 409, 412, 415; two courses from English 315, 325, 335; one course from English 430, 432, 436; one course from English 475, 476; English 311. The additional two courses may be chosen from any upper-division English courses or from upper-division courses in foreign literature or foreign literature in translation.

With the approval of the department, a student may develop an alternative program of study leading to the major. Such a program will require about the same amount of course work as described above, although with a different distribution. It also will require, in the senior year, completion of a comprehensive examination with a satisfactory score or a special writing project.
Requirements for a minor in English: six courses, including English 495; a course in the study of language (English 311, 500 or 505); a survey course in literature (English 110, 111, 120, 121 or 140); an upper-division course in modern literature (English 442 or 446); an upper-division course in Shakespeare (English 475 or 476); an upper-division course in literary analysis (English 301, 302 or 303).

Master of Arts: The College offers a Master of Arts in English Composition. Details on this graduate program may be secured from the Department of English. The College also offers a Master of Arts in Education, with an option in English, for secondary teachers. Details on this graduate program may be secured from the Department of English or the School of Education.

Certificate Program: The College offers a certificate in writing. Details concerning this program are found on Page 99.

80. ENGLISH FOR FOREIGN STUDENTS
Principles of English for foreign students: composition and reading. Units awarded for English 80 are not applicable to a baccalaureate degree. (5 units)

100. INTENSIVE ENGLISH
Intensive work in writing fundamentals. Graded A, B, C/No Credit. Not open for credit to students who have received credit for English 101. (5 units)

101. FRESHMAN COMPOSITION
Analytical study of the language and structure of prose to help students develop a clear, mature and flexible expository style. Frequent writing required. Prerequisite: essay score of seven or greater and total score of 150 or greater on the English placement test, or completion of the test and at least a grade of C in English 100. (5 units)

110. WORLD LITERATURE I
Readings in Oriental and continental European literature to the Renaissance (in English translation). (5 units)

111. WORLD LITERATURE II
Readings in Oriental and continental European literature from the Renaissance to the contemporary period (in English translation). (5 units)

120. ENGLISH LITERATURE I
Readings in English literature from the Middle Ages to Milton. (5 units)

121. ENGLISH LITERATURE II
Readings in English literature from Dryden to the contemporary period. (5 units)

140. SURVEY OF AMERICAN LITERATURE
Readings in major figures in American literature from the Puritans to the present. (5 units)

170. STUDIES IN LITERATURE
Analysis of the forms and content of literature. (5 units)

300. ENGLISH WORKSHOP
An intermediate-level refresher course in writing designed to prepare students for advanced work in composition. Concentration on specific techniques. May not be counted toward fulfilling requirements in the English major and does not fulfill the upper-division writing requirement. Not open to students who have already completed English 495, Administration 495, Natural Sciences 495, Social Sciences 495 or Humanities 495. Prerequisite: English 101. (5 units)
301. ANÁLISIS DE POESÍA
An enfoque para la comprensión de la experiencia literaria a través de un estudio de estructura y tema en poemas líricos seleccionados. (5 unidades)

302. ANÁLISIS DE DRAMA
An enfoque para la comprensión de la experiencia literaria a través de un estudio de estructura y tema en obras de teatro seleccionadas. (También ofrecida como Artes Teatrales 302. Los estudiantes no pueden recibir crédito por ambas.) (5 unidades)

303. ANÁLISIS DE PROSA FICTION
An enfoque para la comprensión de la experiencia literaria a través de un estudio de estructura y tema en piezas de prosa narrativa seleccionadas. (5 unidades)

Estudiantes se les recomienda fuertemente tomar uno o más de los cursos de análisis (Ingles 301, 302, 303) antes de tomar otros cursos de división superior.

311. Lenguaje ENGLISH
Introducción al desarrollo y estructura del lenguaje inglés. (5 unidades)

313. INTRODUCCIÓN A LA ESCRITURA CRÉATIVA
Taller de escritura imaginativa. Discusión de escritura estudiantil y trabajos ejemplares de autores establecidos. (5 unidades)

315. ESTUDIOS DE GÉNEROS LITERARIOS
Estudio intensivo en un género particular. Puede repetirse para crédito a medida que cambien los temas. (5 unidades)

320. LITERATURA INFANTIL
Historia y desarrollo de la literatura infantil; énfasis en el desarrollo de habilidades de análisis, evaluación y selección de libros para niños. (5 unidades)

325. ESTUDIOS EN PERSONAJES LITERARIOS MAJORES
Estudio intensivo en dos o más personajes literarios. Puede repetirse para crédito a medida que cambien los temas. (5 unidades)

333. MITOS Y EPICOS
Mitos y épicas de folklore y de literatura clásica, enfocándose en la relación con la literatura occidental posterior. (5 unidades)

335. ESTUDIOS EN EL NOVELA
Estudios en el novela con énfasis en lectura de textos específicos. (5 unidades)

370. TEORÍA Y PRACTICA DE LA ENSEÑANZA DE PERIODISMO
Práctica en escritura y edición se enfatizará. Consideración del papel de la prensa en su contexto social y histórico. (5 unidades)

372. PRACTICA DE ENSEÑANZA DE PERIODISMO
Aplicación práctica de habilidades periodísticas. Debe tomarse con o después del Ingles 370. Puede repetirse para crédito hasta un total no mayor de 6 unidades. Grado crédito/ninguno de crédito. (2 unidades)

385. INTRODUCCIÓN A LA CRÍTICA LITERARIA
Los temas principales de la crítica literaria considerada en perspectiva histórica. (5 unidades)

399. PROYECTO DE SERVICIO COMUNITARIO
Crédito por realizar tareas relacionadas académicamente en tales agencias como las gubernamentales, las de servicio social y educacionales. Puede repetirse para un total de 6 unidades. No más de seis unidades de crédito para los cursos de Proyecto de Servicio Comunitario pueden ser aplicados a los requerimientos del grado. Grado crédito/ninguno de crédito. Requisitos: consentimiento del departamento. (Crédito a ser arreglado: 1 o 2 unidades)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>401</td>
<td><strong>ENGLISH LITERATURE OF THE MIDDLE AGES</strong></td>
<td>Lyric, drama, prose and verse narrative from the beginnings of English literature through Malory. (5 units)</td>
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<tr>
<td>403</td>
<td><strong>ENGLISH LITERATURE OF THE RENAISSANCE</strong></td>
<td>Poetry, prose and drama of the 16th century. (5 units)</td>
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<tr>
<td>406</td>
<td><strong>SEVENTEENTH CENTURY LITERATURE</strong></td>
<td>English prose and poetry from Bacon through Milton. (5 units)</td>
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<tr>
<td>409</td>
<td><strong>ENGLISH LITERATURE OF THE RESTORATION AND EIGHTEENTH CENTURY</strong></td>
<td>Emphasis on Dryden, Pope, Swift and Johnson. (5 units)</td>
</tr>
<tr>
<td>412</td>
<td><strong>ROMANTIC PROSE AND POETRY</strong></td>
<td>Major English romantics such as Blake, Wordsworth, Coleridge, Keats, Shelley and Byron. (5 units)</td>
</tr>
<tr>
<td>415</td>
<td><strong>VICTORIAN LITERATURE</strong></td>
<td>Major writers of Victorian England. (5 units)</td>
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<tr>
<td>430</td>
<td><strong>AMERICAN LITERATURE I</strong></td>
<td>Colonial and Federal American literature to the early nineteenth century. (5 units)</td>
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<tr>
<td>432</td>
<td><strong>AMERICAN LITERATURE II</strong></td>
<td>Romantic movement in American literature. (5 units)</td>
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<tr>
<td>436</td>
<td><strong>AMERICAN LITERATURE III</strong></td>
<td>Age of realism in American literature. (5 units)</td>
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<tr>
<td>439</td>
<td><strong>BLACK LITERATURE</strong></td>
<td>Literature by and about the Black man. Emphasis on the contribution of Black writers to the American cultural heritage. (5 units)</td>
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<tr>
<td>442</td>
<td><strong>MODERN POETRY</strong></td>
<td>Modern and contemporary poetry. (5 units)</td>
</tr>
<tr>
<td>446</td>
<td><strong>MODERN FICTION</strong></td>
<td>Modern and contemporary fiction. (5 units)</td>
</tr>
<tr>
<td>450</td>
<td><strong>CLASSICAL DRAMA</strong></td>
<td>Development of comedy and tragedy in Greece and Rome. (Also offered as Theatre Arts 450. Students may not receive credit for both.) (5 units)</td>
</tr>
<tr>
<td>455</td>
<td><strong>MODERN DRAMA I</strong></td>
<td>European, English and American realism. (Also offered as Theatre Arts 455. Students may not receive credit for both.) (5 units)</td>
</tr>
<tr>
<td>456</td>
<td><strong>MODERN DRAMA II</strong></td>
<td>European, English and American anti-realism. (Also offered as Theatre Arts 456. Students may not receive credit for both.) (5 units)</td>
</tr>
<tr>
<td>475</td>
<td><strong>SHAKESPEARE I</strong></td>
<td>Comedies and histories. (Also offered as Theatre Arts 475. Students may not receive credit for both.) (5 units)</td>
</tr>
<tr>
<td>476</td>
<td><strong>SHAKESPEARE II</strong></td>
<td>Tragedies and romances. (Also offered as Theatre Arts 476. Students may not receive credit for both.) (5 units)</td>
</tr>
</tbody>
</table>
495. EXPOSITORY WRITING
Advanced expository writing including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. Graded A, B, C/No Credit. Prerequisites: English 101 and upper-division standing. (5 units)

500. GRAMMAR AND LINGUISTICS
An introduction to the attitudes, theories and techniques of modern grammar and linguistic science. Prerequisite: English 311. (5 units)

505. HISTORY OF THE ENGLISH LANGUAGE
Development of the English language from the beginning to the present. Prerequisite: English 311. (5 units)

513. ADVANCED CREATIVE WRITING
Intensive writing workshop in one genre: poetry, fiction, autobiography or others. Emphasis will change from quarter to quarter. May be repeated for credit as subject matter changes. Prerequisite: consent of instructor. (5 units)

521. APPROACHES TO IMAGINATIVE WRITING
Traditional and contemporary approaches to imaginative writing; emphasis on means of encouraging different styles and modes of expression. Prerequisite: English 313 or 513 or consent of instructor. (5 units)

522. INDEPENDENT STUDY IN WRITING
Project in advanced writing: fiction, non-fiction, poetry or drama. An outline of the project must be approved during the junior year and the completed project approved at least one quarter before graduation. This project may, upon special recommendation, substitute for the comprehensive examination. Prerequisites: English 513 and departmental approval. (5 units)

530. METHODS OF TUTORING WRITING
Study of the theory, principles and methods of tutoring students who need specific practice in writing. Those completing this course with a grade of B or better are eligible to participate in tutorial writing services on campus. May not be counted toward fulfilling requirements for the English or liberal studies major or the M.A. in English Composition. Students in this class are expected to be proficient writers. Prerequisites: English 101 and consent of instructor. (2 units)

555. SPECIAL STUDIES IN LITERATURE
Independent study of selected literary figures or study in a special area of literary theory or history. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. A. (2 units) B. (2½ units)

565. SPECIAL STUDIES IN WRITING
Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. Prerequisite: consent of instructor. A. (2½ units) B. (2½ units)

570. SEMINAR IN ENGLISH LITERATURE
May be repeated for credit with consent of instructor. Prerequisite: English 301 or 302 or 303, or graduate standing. (5 units)

580. SEMINAR IN AMERICAN LITERATURE
May be repeated for credit with consent of instructor. Prerequisite: English 301 or 302 or 303, or graduate standing. (5 units)

600-level courses are open to postbaccalaureate and graduate students only.
611. THEORY OF RHETORIC AND COMPOSITION
Traditional and contemporary approaches to rhetoric, composition and style. (5 units)

650. APPROACHES TO LITERATURE
Study and practice of various critical approaches, such as the moral, formalistic, psychological, archetypal, with particular attention to their assumptions about the meaning and function of literature. (5 units)

660. PROBLEMS IN WRITING
Seminar in the development of techniques to resolve specific problems of student writing. This course will include an internship component. To be taken concurrently with English 662. Prerequisite: English 611. May be repeated once for credit. (5 units)

662. INTERNSHIP IN COMPOSITION
A practical application of the principles studied in English 660. Supervised tutorial work in practical situations dealing with composition. To be taken concurrently with English 660. Prerequisite: English 611. (2 1/2 units)

690. RESEARCH TECHNIQUES
Critical study of research methods and resources, including bibliography. Topics covered will be appropriate to a focus on English composition. (5 units)

698. EXTENDED ENROLLMENT
Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. Prerequisites: advancement to candidacy and consent of Graduate Advisory Committee. (0 units)

699. MASTER'S DEGREE THESIS AND RESEARCH
Topic must be appropriate to a focus on English composition. Prerequisite: advancement to candidacy.
A. (2 1/2 units)
B. (2 1/2 units)
C. (2 1/2 units)
ENVIRONMENTAL STUDIES

To accomplish its principal objective of promoting an understanding of the interaction of man with his environment, this interdisciplinary degree program includes courses primarily from the natural sciences and social sciences.

Major requirements from the natural sciences develop fundamental principles about the composition and functioning of the earth's eco-system—principles deemed essential to a sound working knowledge of the environment. Course offerings from the social sciences assess the impact of man upon the environment and the possibility of creating different environments.

The program is designed for students who desire either to focus on a study of the environment as part of a broader liberal arts curriculum or to prepare for an environmentally related career. Professional opportunities for graduates include a wide range of tasks in public agencies responsible for developing and enforcing environmental controls, and in business, industry and nonprofit organizations which need qualified individuals to communicate environmental information and to assist in compliance with environmental regulations. Additional opportunities are available in conjunction with other programs of study, such as environmental law, environmental health, education and public administration.

Inquire at the Geography Department Office, Student Services Building, Room 139 (Telephone 887-7280) for further information about the environmental studies program and academic advising and counseling.

Requirements for the major: the prospective major in environmental studies may elect to pursue one of two alternatives, Track A or Track B.

Track A
Lower-division core:

BIOLOGY 202. BIOLOGY OF POPULATIONS

CHEMISTRY 205. FUNDAMENTALS OF CHEMISTRY I: GENERAL CHEMISTRY

MATHEMATICS 150. ELEMENTARY STATISTICS

or

SOCIAL SCIENCES 215. STATISTICS FOR THE SOCIAL SCIENCES

Three of the following:

EARTH SCIENCE 101. PHYSICAL GEOLOGY

GEOGRAPHY 103. PHYSICAL GEOGRAPHY

PHYSICS 100. PHYSICS IN THE MODERN WORLD

or

PHYSICS 121 and 225. BASIC CONCEPTS OF PHYSICS I
CHEMISTRY 206. FUNDAMENTALS OF CHEMISTRY II: ORGANIC CHEMISTRY

BIOLOGY 200. BIOLOGY OF THE CELL

BIOLOGY 201. BIOLOGY OF ORGANISMS

HEALTH SCIENCE 120. HEALTH AND SOCIETY: AN ECOLOGICAL APPROACH

ANTHROPOLOGY 100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION

Upper-division core:

GEOGRAPHY 350. CONSERVATION AND NATURAL RESOURCES

GEOGRAPHY 360. CLIMATE AND VEGETATION

GEOGRAPHY 370. LANDFORMS, SOILS AND REMOTE SENSING

HEALTH SCIENCE 372. ENVIRONMENTAL ADMINISTRATION AND ENVIRONMENTAL IMPACT REPORTING

Electives:

A major in Track A must have six of the following electives with at least two courses from each of the following groups.

Group 1

BIOLOGY 319. LOCAL FLORA

BIOLOGY 220. PRINCIPLES OF MICROBIOLOGY

BIOLOGY 352C. BIOSYSTEMATICS AND CLASSIFICATION OF VASCULAR PLANTS

BIOLOGY 370. SYMBIOSIS

BIOLOGY 450. ECOLOGY

GEOGRAPHY/BIOLOGY 460. BIOGEOGRAPHY

HEALTH SCIENCE 352. ENVIRONMENTAL HEALTH I

HEALTH SCIENCE 353. ENVIRONMENTAL HEALTH II

HEALTH SCIENCE 458. VECTOR CONTROL: FACTORS INFLUENCING ENVIRONMENT AND HEALTH

Group 2

ADMINISTRATION 301. MANAGEMENT PRACTICES

ANTHROPOLOGY 475. CULTURAL ECOLOGY

ECONOMICS 360. ECONOMICS OF THE ENVIRONMENT
POLITICAL SCIENCE 342. THE POLITICS OF ENVIRONMENT

GEOGRAPHY 301. CARTOGRAPHY

GEOGRAPHY 380. POPULATION GEOGRAPHY

GEOGRAPHY 410. REGIONAL PLANNING AND RESOURCE DEVELOPMENT

GEOGRAPHY 415. URBAN PLANNING AND LAND DEVELOPMENT

Optional courses not a part of the major:

Students are encouraged to continue their studies of the environment through the use of independent study courses and approved internships.

Track B
Lower-division core:

BIOLOGY 200. BIOLOGY OF THE CELL

BIOLOGY 201. BIOLOGY OF ORGANISMS

BIOLOGY 202. BIOLOGY OF POPULATIONS

CHEMISTRY 215. INTRODUCTORY CHEMISTRY I: ATOMIC STRUCTURE AND CHEMICAL BONDING

CHEMISTRY 216. INTRODUCTORY CHEMISTRY II: PRINCIPLES OF CHEMICAL REACTIONS

CHEMISTRY 217. INTRODUCTORY CHEMISTRY III: MODERN QUANTITATIVE ANALYSIS

MATHEMATICS 150. ELEMENTARY STATISTICS

or

MATHEMATICS 350. STATISTICS: HYPOTHESIS TESTING AND ESTIMATION

PHYSICS 100. PHYSICS IN THE MODERN WORLD

or

PHYSICS 121 and 225. BASIC CONCEPTS OF PHYSICS I

Upper-division core:

GEOGRAPHY 350. CONSERVATION AND NATURAL RESOURCES

GEOGRAPHY 360. CLIMATE AND VEGETATION

GEOGRAPHY 370. LANDFORMS, SOILS AND REMOTE SENSING

HEALTH SCIENCE 372. ENVIRONMENTAL ADMINISTRATION AND ENVIRONMENTAL IMPACT REPORTING

Electives: one of the following pairs must be chosen:

CHEMISTRY 225. ORGANIC CHEMISTRY I and CHEMISTRY 226. ORGANIC CHEMISTRY II

or
BIOLOGY 370. SYMBIOSIS and BIOLOGY 450. ECOLOGY

In addition, a major in environmental studies with Track B must have any two of the following provided that neither has been used in the pairs above.

EARTH SCIENCE 101. PHYSICAL GEOLOGY

BIOLOGY 319. LOCAL FLORA

BIOLOGY 352C. BIOSYSTEMATICS AND CLASSIFICATION OF VASCULAR PLANTS

BIOLOGY 370. SYMBIOSIS

BIOLOGY 450. ECOLOGY

BIOLOGY/GEOGRAPHY 460. BIOGEOGRAPHY

CHEMISTRY 225. ORGANIC CHEMISTRY I

CHEMISTRY 226. ORGANIC CHEMISTRY II

HEALTH SCIENCE 352. ENVIRONMENTAL HEALTH I

HEALTH SCIENCE 353. ENVIRONMENTAL HEALTH II

Optional courses not a part of the major:

Students are encouraged to continue their studies of the environment through the use of independent study courses and approved internships.

Honors in the Major: Students majoring in environmental studies are eligible to receive honors in environmental studies at graduation if the following conditions are met: (1) at least one-half of the course work required by the major is completed at this college, (2) at least a 3.5 GPA in the major, both at this college and overall, (3) an overall undergraduate GPA of 3.0 or better, and (4) completion of a senior project approved in advance by the program coordinator. Students interested in receiving this recognition must initiate the process by making a formal application with the Geography Department secretary.
ETHNIC STUDIES

The College, as part of its ethnic studies program, offers a variety of subject matter options. These include the history major with options in Black studies or Mexican-American studies and the sociology major with options in Black studies or Mexican-American studies. In addition, a group of three ethnic studies courses may be selected for a supporting field in a social sciences major. Besides these, the College offers ethnic studies courses as electives.

A degree in history with an emphasis in either Black or Mexican-American studies should include the following: History 200, 201, 300, 301 and 490. The remaining five courses shall be selected by the student and advisor from the appropriate ethnic studies concentration.

The ethnic studies option in sociology requires Social Sciences 215 or Sociology 210 or equivalent; Sociology 100, 305, 310, 312; four courses in either Mexican-American studies or Black studies, and two additional sociology courses which fulfill requirements for the sociology major.

Inquire at the History Department Office, Administration Building, Room 130 (Telephone 887-7239) for information concerning an ethnic studies emphasis in history. Inquire at the Sociology Department Office, Administrative Building, Room 183 (Telephone 887-7224) for information concerning an ethnic studies option in sociology. Academic advising and counseling are also available at both offices.

ANTHROPOLOGY 351. INDIANS OF NORTH AMERICA
ANTHROPOLOGY 352. INDIANS OF THE SOUTHWEST
ANTHROPOLOGY 354. CULTURES OF MEXICO AND CENTRAL AMERICA
ART 328. MEXICAN ART
ART 329. CHICANO ART
EDUCATION 536. TEACHING THE CULTURALLY DIFFERENT
ENGLISH 439. BLACK LITERATURE
HISTORY 331. BLACK HISTORY I: THE AFRICAN EXPERIENCE
HISTORY 334. BLACK HISTORY II: THE AMERICAN EXPERIENCE
HISTORY 390. HISTORY OF MEXICO
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FOREIGN LANGUAGES AND LITERATURES

The Department of Foreign Languages offers a wide variety of courses both in the foreign languages and in English. The foreign languages include French, German and Spanish. The offerings of each language can be found separately listed in alphabetical order. Courses that apply comprehensively to all languages, including English, appear below.

The principal objectives of the department's programs are to teach students to understand, speak, read and write the foreign languages offered; and to promote an understanding of foreign civilizations and an appreciation of their literatures. This background will prepare students to teach foreign languages and will provide language skills for those interested in positions such as librarian, interpreter, translator, foreign service officer and foreign trade specialist.

The Cooperative Program in Foreign Language and Literature gives students the opportunity, without additional fees, to take courses in foreign languages not available on this campus or any neighboring CSUC campus but offered at UCLA. For information regarding enrollment and qualifications, interested students should inquire at the Department of Foreign Languages and Literatures.

Inquire at the Foreign Languages Department Office, Library-Classroom Building, Room 266C (Telephone 887-7445) for further information about the foreign language programs and academic advising and counseling.

295. INDEPENDENT LANGUAGE STUDY
For the occasional student seeking the equivalent of a lower-division language course not offered in the regular classroom format. Course may be repeated for credit. Prerequisite: consent of department. (5 units)

450. LITERATURE IN TRANSLATION
Significant masterpieces of a genre or a period read in English translation. No prerequisite. May be repeated for credit as topics change. When the topic of Foreign Languages 450 is Mexican literature, this course may not be taken for credit by a student who has received credit for Spanish 450. (5 units)

555. INDEPENDENT STUDY
Independent study of individual writers and genres. Prerequisite: one 300-level course in the language under study or consent of instructor, a minimum overall grade-point average of 3.0, departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (5 units)
The study of French combines training in foreign studies with language, literature and culture. These studies contribute to the basis of any program of liberal education, affording insight into foreign attitudes and methods and permitting free communication, written and oral, among people.

In addition to the traditional preparation of teachers in the subject, a major in French can provide a good background for advanced professional or business programs, especially when combined with an appropriate second major.

Attention is drawn to other courses which may be of interest to French majors: Humanities: 350, 460, 499; Foreign Languages 295, 450, 555.

Inquire at the Foreign Languages Department Office, Library-Classroom Building, Room 266C (Telephone 887-7445) for further information about the foreign language programs and academic advising and counseling.

Requirements for the major: 70 quarter units in French. Proficiency in French equal to that of French 104 or its equivalent; plus French 200, 210, 301; plus two courses chosen from the following: French 311, 312, 313; plus the remaining 45 units chosen from any of the French offerings. One course in Humanities 460 (when the topic is France) and one course in Foreign Languages 450 or History 535 (when the topic is France) will be accepted toward the major.

Requirements for the minor in French: 40 quarter units in French. Proficiency in French equal to that of French 104 or its equivalent; plus French 200, 210, 301 and additional course(s) at the 300 level.

Certificate Program: The Department of Foreign Languages and Literatures offers a certificate program for French/English and English/French translators. Details concerning this program are found on Page 94.

Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

**101. ELEMENTARY FRENCH I**
Pronunciation, grammar, reading and conversation. (5 units)

**102. ELEMENTARY FRENCH II**
Continuation of French 101. (5 units)

**103. INTERMEDIATE FRENCH I**
Grammar, composition and conversation; discussion in French of literary texts. Prerequisite: French 102 or equivalent. (5 units)

**104. INTERMEDIATE FRENCH II**
Continuation of French 103. (5 units)
200. CONVERSATION AND COMPOSITION
Prerequisite: French 104 or equivalent. (5 units)

210. INTRODUCTION TO LITERARY STUDY
Techniques of literary study and analysis. Explication de textes. Prerequisite: French 104 or equivalent. (5 units)
Ordinarily, upper-division courses are conducted in French. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

301. PHONETICS
French phonology, with emphasis on improvement of the students’ pronunciation. Prerequisite: French 200 or equivalent. (5 units)

302. ADVANCED FRENCH COMPOSITION
Structure of the French language, with emphasis on improvement of the students’ ability to write French. Prerequisite: French 200 or equivalent. (5 units)

309. FRENCH FOR TRANSLATORS
Extensive practice in precise written translations from French into English and from English into French. Self-paced course. May not be counted toward fulfilling the requirements in the French major. Prerequisite: French 302.
A. (5 units)
B. (5 units)
C. (5 units)

311. MASTERPIECES OF FRENCH LITERATURE I
Middle Ages and sixteenth century. Prerequisite: French 210 or equivalent. (5 units)

312. MASTERPIECES OF FRENCH LITERATURE II
Seventeenth and eighteenth centuries. Prerequisite: French 210 or equivalent. (5 units)

313. MASTERPIECES OF FRENCH LITERATURE III
Nineteenth century. Prerequisite: French 210 or equivalent. (5 units)

340. ADVANCED CONVERSATION
Advanced practice of oral French stressing the reading and discussion of current topics in France. May be repeated for credit. Prerequisite: French 200 or consent of instructor. (2 1/2 units)

399. COMMUNITY SERVICE PROJECT
Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)

420. SPECIAL TOPICS IN FRENCH LITERATURE
Topics such as the role of nature in French literature. May be repeated for credit. Prerequisites: two 300-level courses in French literature or equivalent. (5 units)
GEOGRAPHY

Geography is concerned with the spatial variations and interrelations of the natural and cultural features of the earth. Geographers study the earth primarily as the home of man. As an approach to knowledge, geography forms an interdisciplinary bridge between the physical and cultural worlds, examining both man and his environment. As a synthesizing discipline, geography is an especially attractive major for liberal arts and science students. Its body of theory and methodologies provides an analytic technique applicable to a wide range of questions. For students planning to terminate their formal education with a bachelor’s degree, it also provides both the regional and world perspective required of responsible citizens. For the same reasons, geography is especially valuable for those who plan to do graduate work. Geography offers job opportunities in teaching, business, government, armed forces, conservation and water resources, planning and market research, and international organizations.

Inquire at the Geography Department Office, Student Services Building, Room 139 (Telephone 887-7280) for further information about the geography program and academic advising and counseling.

The geography major involves a two-track system, Track A and Track B. Requirements for all majors include the following core: Geography 100, 103, 360 or 370, 380, 420 and one area study. Cartography (Geography 301) is highly recommended for all Track A and Track B majors.

Track A requires that students take, in addition to the core, 20 units of upper-division course work in geography. Only five of these units may be drawn from the area studies group.

Track B requires that students take, in addition to the core, 20 units of upper-division course work in geography and/or related disciplines. These units, selected in consultation with an advisor, must be from one of the following fields of study: urbanization, modernization, area studies, earth science, or environmental analysis.

Requirements for a minor in geography: 30 units in geography including the series 100, 103, 420. The remaining 15 units can be chosen from any of the upper-division geography offerings with the restriction that only five units can be an area study.

100. INTRODUCTION TO HUMAN GEOGRAPHY
Introduction to the geographic study of human activities throughout the world. (5 units)

103. PHYSICAL GEOGRAPHY
Systematic approach to the physical environment of man stressing the relationships between the atmosphere, land, life forms and water. Lecture and laboratory. (5 units)
301. CARTOGRAPHY
Provides students with necessary drafting skills to construct maps, charts and graphs as well as training in map interpretations. **Prerequisite:** consent of instructor. (5 units)

302. GEOGRAPHY OF CALIFORNIA
Systematic and regional study of California geography stressing general geographical concepts to explain sequential human settlement patterns in relation to the natural environment. (5 units)

309. AREA STUDY: SOVIET UNION
Regional analysis of socio-economic development and environmental problems. (5 units)

321. AREA STUDY: LATIN AMERICA
Regional analysis of socio-economic development and environmental problems. (5 units)

350. CONSERVATION AND NATURAL RESOURCES
Principles of resource utilization and ecology as they involve human development and politico-economic policy. (5 units)

360. CLIMATE AND VEGETATION
Climate and vegetation, and the interrelationships between the two including the consideration of atmospheric processes significant for understanding regional patterns of distribution. **Prerequisite:** Geography 103 or consent of instructor. (5 units)

370. LANDFORMS, SOILS AND REMOTE SENSING
Landscape analysis through techniques including interpretation of maps, aerial photographs, satellite imagery and geographic field data; considers selected surface features, developmental processes and principles of environmental remote sensing. **Prerequisite:** Geography 103, or Earth Science 101, or consent of instructor. (5 units)

380. POPULATION GEOGRAPHY
Spatial distribution and redistribution of population; interrelationships between population and the environment, including techniques of analysis. (5 units)

390. SELECTED TOPICS IN GEOGRAPHY
Examination of selected topics of current interest in geography. May be repeated for credit as topics change. (5 units)

392. SELECTED TOPICS IN GEOGRAPHY
Examination of selected topics of current interest in geography. May be repeated for credit as topics change. (2\(\frac{1}{2}\) units)

410. REGIONAL PLANNING AND RESOURCE DEVELOPMENT
Application of concepts of location, spatial organization and spatial interaction to regional planning and resource development. (5 units)

415. URBAN PLANNING AND LAND DEVELOPMENT
Comprehensive urban planning and land use controls. Emphasis on impact of urban development in North America. (5 units)

420. GEOGRAPHY OF ECONOMIC ACTIVITY
Analysis of concepts of location, interaction and regionalization as they apply to economic activity. Special emphasis on economic growth and modernization. (5 units)

440. URBAN GEOGRAPHY
Description and classification of cities, analysis of their distribution, and a study of the external and internal relations of urban areas. (5 units)
460. BIOGEOGRAPHY
Investigation of plants and animals according to their environmental and spatial relationships. Biogeographic theory and regions will be examined; agents of biotic distribution and human influences will be noted. (Also offered as Biology 460. Students may not receive credit for both.) Prerequisites: upper-division standing, Geography 103, and Biology 201 or 202; or consent of instructor. (5 units)

575. INTERNSHIP IN GEOGRAPHY
Supervised work in public or private organizations emphasizing practical applications of geographic concepts. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (5 units)

595. INDEPENDENT STUDY
A total of 10 units in Geography 595 may be applied toward the major and graduation. Prerequisites: A minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)
GERMAN

The German program, open to all interested students, offers courses that develop language capabilities, and an appreciation and comprehension of the literature and culture of Germany, Austria and Switzerland. Courses taught in English are listed under Foreign Languages (Page 180) and Humanities (Page 198). Courses listed below are offered both to fulfill general education requirements and to support other major programs.

Inquire at the Foreign Languages Department Office, Library-Classroom Building, Room 266C (Telephone 887-7445) for further information about the foreign language programs and academic advising and counseling.

Requirements for a minor in German: German 101, 102, 103, 202, 309, and one additional course at the 300 level.

Certificate Program: The Department of Foreign Languages and Literatures offers a certificate program for German/English and English/German translators. Details concerning this program are found on Page 94.

Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

101. ELEMENTARY GERMAN I
Pronunciation, grammar, reading and conversation. (5 units)

102. ELEMENTARY GERMAN II
Continuation of German 101. (5 units)

103. INTERMEDIATE GERMAN I
Reading and discussion of modern German prose and poetry, grammar review, composition and conversation. Prerequisite: German 102 or equivalent. (5 units)

202. GERMAN CONVERSATION
Basic conversational German stressing cultural aspects and their application to contemporary situations in German speaking environments. Prerequisite: German 103 or consent of instructor. (5 units)

Ordinarily, upper-division courses are conducted in German. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

308. READINGS IN GERMAN LITERATURE
Selected literary genre or writer. May be repeated for credit as topics change. Prerequisite: German 103 or consent of instructor. (5 units)

309. ADVANCED GERMAN COMPOSITION
Practice in composition and short essay writing with emphasis on the development of good writing style and expressive vocabulary. Practical application in writing. Prerequisite: German 103 or consent of instructor. (5 units)
310. ADVANCED GERMAN CONVERSATION
Advanced practice of oral German stressing the discussion of topics based in part on current newspapers and periodicals. Prerequisites: German 103 and German 202 or consent of instructor. (5 units)

311. INTRODUCTION TO GERMAN LITERATURE
Survey course designed to introduce the student to the major literary movements and representative writers of German speaking cultures. Prerequisite: German 103 or consent of instructor. (5 units)

312. PRACTICAL TRANSLATION
Translation from German to English and from English to German of materials useful in business, politics and tourism. Use of language lab is required. Prerequisite: German 103 or consent of instructor. (5 units)

313. TECHNICAL AND SCIENTIFIC TRANSLATION
Translation from German to English and English to German of technical and scientific material. Use of language lab is required. Prerequisite: German 103 or consent of instructor. (5 units)

399. COMMUNITY SERVICE PROJECT
Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)
Students interested in personal growth, community service, intellectual stimulation and professional career opportunities in the health and environmental fields may find the major in health science a method to achieve these goals.

The Department of Health Science and Human Ecology offers a bachelor of science degree as well as several certificates in specialized areas. The department emphasizes an ecological approach to health and attempts to provide students with the tools necessary to understand factors contributing to the promotion of general health and well-being and to the prevention of illness.

A Bachelor of Science in Health Science is appropriate for students preparing to become health professionals or desiring to work in environmental protection agencies, private businesses or industrial hygiene and safety. The program also is designed to provide a career ladder opportunity for persons currently engaged in health and environmental occupations or preparing for graduate work in public health, social or natural sciences.

The department offers a blend of traditional and modern approaches to education and career development in the health science field. It encourages multidisciplinary orientation, community interaction and a social outlook, while providing an appropriate grounding in the natural sciences. In their senior year, students spend time in community agencies, such as health departments, hospitals, industrial plants, environmental improvement agencies and consumer affairs offices; thus combining theory and practice.

Pre-professional students of medicine, dentistry, veterinary medicine or other science-related fields seeking a major in health science should refer to Page 74 of this bulletin and consult with a department advisor.

Students interested in fields such as health or environmental law, clinical chemistry, business, health physics, or any other academic discipline should complete the minimum requirements of the major and select appropriate electives in consultation with a department advisor.

Inquire at the Health Science and Human Ecology Department Office, Physical Sciences Building, Room 119 (Telephone 887-7348) for further information about the health science program and academic advising and counseling.

Requirements for the major: Biology 100 or 202, 220 and 222; Mathematics 150 or 350; Chemistry 205, 206, 207 or 215, 216, 206 or 215, 216, 225; Physics 100, or 121 and 225, or 221 and 225; Health Science 120, 352, 355, 356, 366, 371, 451, 470, 491, 492A, 492B and 15 units of health science electives.

The requirements for the major are those for health science generalist. There are a number of areas of advisement within the major. Students planning careers in environmental health and occupational health, health education, or health administration and planning must read the following statement carefully.

The environmental and occupational health component of the curriculum is
approved by the Sanitarian Registration Certification Advisory Committee of the California State Department of Health Services. Students who wish to obtain the Bachelor of Science in Health Science and be eligible for admittance to the state sanitarian registration examination as certified by the environmental health coordinator of the Department of Health Science and Human Ecology must complete the requirements of the major, and include within the major and electives the following courses: Health Science 120, 352, 353, 355, 356, 366, 371, 372, 401, 451, 458, 470, 491, 492A, 492B; Biology 100 or 202; Biology 220; Biology 222; Mathematics 110 or 120; Mathematics 150 or 350; Chemistry 215, 216, 225 (Chemistry 206 may substitute for Chemistry 225 upon approval of the environmental health coordinator); Physics 121, 122 (or 221, 222) and 225, 226.

Students interested in community health education are advised to take their health science electives as follows: Health Science 336, 351, 361, 426 (or 330), and 440 (or 435).

Students preparing for entry-level careers in health administration/planning or for graduate work in this area must be certified by the department as having completed: Computer Science 135, Economics 100 or 102; Administration 301, 306; Health Science 401, 415, and 422 (which may be substituted for Physics 100 or 121, 225 or 221, 225; Biology 100 or 202, and Biology 220; Chemistry 205, 206, 207 or 215, 216, 206 or 215, 216, 225). For their 15 units of health science electives, students in the health administration/planning area of advisement take Health Science 424, 427 and 525. Additionally, they will take Health Science 598. Upon approval of the advisor, Biology 220 may substitute for Biology 222.

An illustrated table of the curriculum requirements in all areas of advisement—health science generalist, community health education, health administration/planning and environmental health and safety—can be obtained by contacting the Department of Health Science and Human Ecology.

Requirements for a minor in health science: Health Science 120, 352, 451 and 15 units of upper-division health science courses selected in consultation with an advisor.

Departmental Honors: A graduating senior will be awarded departmental honors in health science after meeting the following requirements: at least a 3.5 average in all health science courses taken at California State College, San Bernardino; at least a 3.0 average overall; and an A in Health Science 595 or another clear demonstration of ability to do independent work in health science.

Certificate Programs: The Department of Health Science and Human Ecology offers certificate programs in community mental health, health services administration and planning, and occupational safety and health. Additionally, the department participates in the interdisciplinary certificate in applied gerontology. Details concerning these programs are found beginning on Page 89.

120. HEALTH AND SOCIETY: AN ECOLOGICAL APPROACH
Nature and function of health in society through study of the fundamental concepts of living systems and their implication on the processes of health and illness in the human organism. Major health problems are analyzed to contribute to the student's understanding of his role as an individual and as a member of the community. Lecture and three hours of laboratory. (5 units)

200. MEDICAL TERMINOLOGY
Study of prefixes, roots and suffixes commonly encountered in medicine, leading to an ability to define unfamiliar words. Also included are common medical abbreviations and symbols. (2½ units)
300. THE HISTORY OF MEDICINE AND PUBLIC HEALTH
Historical factors involved in the development of human understanding of the disease processes and concepts, including a consideration of disease in a historical context. Medical, public health institutions and the contributions of early health workers are examined. (5 units)

309. HEALTH AND HUMAN SEXUALITY
Relationship between health and human sexuality with a theme of prevention of disease, disorder, and dysfunction through education. Prerequisite: Health Science 720 or consent of instructor. (2½ units)

330. SCHOOL AND COLLEGE HEALTH PROGRAMS
Philosophical framework, organization, administration and legal aspects of school health with particular attention to the roles of the teacher and the school nurse. Factors contributing to a healthful and safe school environment and their interrelationship to health services and instruction. This course conforms with the State Framework for Education in the Health Sciences. Prerequisite: Health Science 120. (5 units)

336. DRUG AND ALCOHOL USE AND ABUSE
Analysis of factors influencing human use or abuse of drugs, alcohol and other substances and their effects on the health and well-being of the individual, family and society. This course conforms with the State Framework for Education in the Health Sciences. (2 units)

337. SPECIAL TOPICS IN DRUG AND ALCOHOL USE
In-depth analysis of selected problems in the use and misuse of drugs. May be repeated for credit as topics change. This course conforms with the State Framework for Education in the Health Sciences. Prerequisite or corequisite: Health Science 336. (2½ units)

340. DISEASES OF MAN
Origins, causes and effects of the diseases of greatest consequence to the majority of mankind. A historical perspective including early fundamental advances in medicine and the concept of disease. (5 units)

351. FOODS, NUTRITION AND HEALTH
Usage of foods and the nutritional status of man as an indicator of prevailing social and ecological factors; principles of nutrition applied to public health; contemporary food trends such as health foods; diverse effects of malnutrition and hunger on the individual and society. (5 units)

352. ENVIRONMENTAL HEALTH I
Relationship of the physical, chemical and biological environments to man. Methods of assessment, evaluation and control of environmental aspects related to medicine and public health. Principles of public health engineering, environmental planning and preparation of environmental impact studies. Prerequisite: completion of lower-division required core or consent of instructor. (5 units)

353. ENVIRONMENTAL HEALTH II
Present environmental and occupational health standards. Methods of testing and surveying residential, recreational and work environments. Laboratory and field experience in measuring the quality of air, water and food. Measurement and prevention of noise pollution and occupational health hazards. Lecture and three hours of laboratory. Prerequisite: Health Science 352 or consent of instructor. (5 units)

355. HEALTH, CONSUMER AND ENVIRONMENTAL LAW
Health laws and regulations, basis for their enactment and impact on facilities and programs, e.g. hospitals, health planning. Impact of environmental law on public health and mechanisms involved in protecting health consumers. Legal basis of the health care system and related aspects. (5 units)

356. HOUSING AND INSTITUTIONS
Basic health principles and environmental quality considerations associated with housing and institutions (for example, health care, educational, penal). Relationship of housing quality to physical, socio-economic and ethnic factors and their influence on health. (2½ units)
361. PRINCIPLES OF ACCIDENT PREVENTION
Ecological and medical aspects of accident prevention in residential, work, educational, medical and recreational environments. Legal aspects and governmental organizations involved in accident prevention. (2 1/2 units)

362. PRINCIPLES OF NUTRITION
Study of carbohydrates, fats, proteins, vitamins and minerals, their metabolic interrelationship and their role in normal human nutrition. Methods of assessing nutritional requirements during different stages of the life cycle. Prerequisite: a course in organic chemistry or consent of instructor. (5 units)

366. OCCUPATIONAL HEALTH AND THE WORK ENVIRONMENT
Identification, evaluation and control of hazards prevailing in the work environment. Factors affecting man in his working environment. Safety and health legislation. Field trips to selected industries. (2 1/2 units)

370. DIET AND DISEASE
Role of dietary modifications in prevention and treatment of pathological conditions in man. Prerequisite: Health Science 351 or 362 or equivalent. (2 1/2 units)

371. ORGANIZATION AND FUNCTION OF COMMUNITY HEALTH SERVICES
Consideration and comparison of traditional and current programs in official and voluntary health agencies. (5 units)

372. ENVIRONMENTAL ADMINISTRATION AND ENVIRONMENTAL IMPACT REPORTING
Principles and procedures of environmental health administration, emphasizing the role of the government and the citizen. Review of federal, state and local legislation and guidelines essential in preparing an environmental impact report. (5 units)

374. BASIC AUDIOMETRY AND HEARING PROBLEMS
Examination of the anatomy and physiology of the auditory mechanism. Nature of the acoustic stimulus, hearing disorders, problems of the hard of hearing and pure-tone audiometry. First course in a two-course series (374, 474) leading to the certificate of registration as school audiometrist, granted by the California Department of Health Services upon successful completion. (5 units)

376. PRINCIPLES OF OCCUPATIONAL SAFETY AND HEALTH
Critical analysis of methods of standard setting and contemporary occupational safety and health regulations. Methods of assessing hazards and protecting the health of the worker. Prerequisite: Health Science 366 or consent of instructor. (5 units)

381. OCCUPATIONAL SAFETY
Principles of industrial safety, including general principles; accident control; industrial, mechanical, electrical, chemical and flammability hazards; fire and explosion protection; accident investigation; industrial safety inspections; record keeping; safety training and emergency planning; methods of industrial safety management as a unifying theme. (5 units)

399. COMMUNITY SERVICE PROJECT
Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)

401. LAND USE: HEALTH ASPECTS
Health considerations and their impact on land-use patterns; health planning and environmental health aspects of land use with reference to environmental impact reports; land-use regulatory mechanisms relating to health. (5 units)
192 / Health Science

410. TOXICOLOGY
Principles of chemical toxicity and relationships to public health, including general principles, intoxication and disease, dose response tests, mechanisms of action and principles of antidotal therapy. Specific toxicologic studies as related to various food, drug, consumer, industrial and environmental problems. Prerequisite: college biology or chemistry course, or consent of instructor. (2⅔ units)

415. MEDICAL CARE ORGANIZATIONS
Analysis of the organization of health and medical care services, resources, facilities, financial aspects and other related topics. Prerequisite: Health Science 371 or consent of instructor. (5 units)

421. COMMUNITY MENTAL HEALTH
Mental health care delivery system with emphasis on a community approach to prevailing problems and issues. Methods of evaluating community and school mental health education programs; survey of available resources. (5 units)

422. HEALTH PLANNING
Health planning systems and procedures. Prerequisite: Health Science 371 or consent of instructor. (5 units)

423. HEALTH ASPECTS OF AGING
Issues and problems affecting the health status of the aged. Medical aspects of patients in long-term care facilities. (5 units)

424. HEALTH FACILITIES PLANNING
Activities in health care facilities planning, for example, architectural, engineering, contractual, environmental and other regulatory aspects. Facility planning processes, environmental forces, administrative coordination and historical development. (5 units)

425. HEARING CONSERVATION AND NOISE MEASUREMENT
Principles of audiology and noise measurements and their application to environmental and industrial hearing conservation programs. (2⅔ units)

426. ENVIRONMENTAL EDUCATION: SOLVING SCHOOL-COMMUNITY HEALTH PROBLEMS
Techniques involved in health and environmental teaching and development of methods and materials. Factors considered in solving the school and community health problems and methods of encouraging school-community interaction. This course conforms with the State Framework for Education in the Health Sciences. (2⅔ units)

427. HOSPITAL ADMINISTRATION
Organization and administration of hospital facilities including planning and evaluation of services. Role of the hospital as part of the community. Prerequisites: Health Science 371 and Administration 301 or consent of instructor. (5 units)

435. CHILD AND YOUTH DEVELOPMENT: HEALTH ASPECTS
Health needs and problems of the school-age child; concepts of appraisal, services and healthful environment. This course conforms with the State Framework for Education in the Health Sciences. (5 units)

440. FAMILY HEALTH
Health aspects of the home and family, including qualifications for marriage, prenatal care, pregnancy, infant and maternal mortality, children's disease, home accidents, health plans for the family and health problems associated with old age. This course conforms with the State Framework for Education in the Health Sciences. (2⅔ units)

451. PRINCIPLES OF EPIDEMIOLOGY
Distribution and dynamics of human health problems; principles and procedures used to determine circumstances under which disease occurs or health prevails. The broadened scope of epidemiology is examined through case studies and community health approach. (5 units)
455. ORGANIZATION AND MANAGEMENT OF LONG-TERM CARE FACILITIES
Examination of the professional administrative role and managerial concepts in long-term facilities, including nursing homes. Prerequisites: Health Science 371 and Administration 301 or consent of instructor. (5 units)

458. VECTOR CONTROL: FACTORS INFLUENCING ENVIRONMENT AND HEALTH
Identification and control of arthropods and other vectors of disease. Use of natural methods of control and chemical pesticides and their impact on environmental quality and health. Students enrolling in this course should possess some knowledge of biology and chemistry. (5 units)

470. HEALTH BEHAVIOR AND COMMUNITY HEALTH EDUCATION
Factors influencing the community's response to public health programs and individual's health behavior. Analysis of community health problems, the process of decision-making and health education activities of governmental and non-governmental organizations. (5 units)

474. ADVANCED AUDIOMETRY
Hearing tests, their objectives and uses for diagnostic and rehabilitative purposes. Techniques for administering auditory tests and the interpretation of their results emphasizing pure-tone audiometry. Second course in a two-course series (374, 474) leading to the certificate of registration as school audiometrist, granted by the California Department of Health Services upon successful completion. Prerequisite: Health Science 374 or 425 or equivalent. (5 units)

476. INDUSTRIAL HYGIENE
Toxic chemicals in the industrial environment, their influence on human health and their relationship to occupational medicine and the administration of industrial hygiene programs. Prerequisites: Health Science 366 and a basic chemistry course, or consent of instructor. (5 units)

491. PRE-FIELD STUDY PRACTICUM
Preparatory work for field assignments through classroom discussion, agency contacts and experience. (5 units)

492. FIELD STUDY: ACTION/RESEARCH IN HUMAN ECOLOGY AND HEALTH
Individual and team field studies and research in agencies with activities relevant to career goals and interests. Prerequisite: Health Science 491 or consent of instructor.
A. (5 units)
B. (5 units)

525. HEALTH DATA ANALYSIS AND DEMOGRAPHY
Introduction to analysis of health data using statistical procedures, development of skills for determining analytical techniques and procedures for interpretation and presentation of resultant data; examination of sources and evaluation of demographic data and relationships to such topics as fertility, morbidity, mortality, population projection, life tables, migration. Prerequisites: Health Science 451 and Mathematics 150 or 330 or consent of instructor. (5 units)

595. INDEPENDENT STUDY
Research in special topics including library studies and/or laboratory work under the direction of a faculty member. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

598. RESEARCH METHODOLOGY IN HEALTH SCIENCE
Research methods and application to contemporary health and environmental problems. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. (5 units)
History has been called the "extension of memory" which enables one to utilize past experiences. The study of history nurtures and refines a broad spectrum of skills which make not only for good historians and teachers, but for good workers in many fields where men and women are sought who can read critically, analyze and write. In fact, while teaching and research have traditionally been the avenues history majors have followed, a multitude of career opportunities has always existed for those who like history but do not wish to become teachers. The skills history majors get in thinking, research, problem defining and solving, speaking and writing—in conjunction with skills acquired from other selected courses—ideally suit them for positions in the business world and with governmental agencies.

The History Department has developed a major around a core of five courses which present a broad survey of American and European history and an introduction to the nature of historical study. To meet the remainder of the requirements for the major, the student may choose from a wide spectrum of courses. Currently, the department consists of faculty specializing in the areas of American, European and Latin American history. Majors are also offered optional programs emphasizing Black or Mexican-American studies.

Inquire at the History Department Office, Administration Building, Room 130 (887-7239) for further information about the history program and academic advising and counseling.

Requirements for the major: 50 units in history, including History 200, 201, 300, 301 (or their equivalents as described below) and 490, and at least 25 units of other upper-division course work in history. With the approval of the departmental advisor, up to 10 units of upper-division course work in related fields may be counted toward the upper-division course requirement in history. Students who are interested in Latin American or European history are encouraged to take a complete sequence of courses in the appropriate language.

Acceptable equivalents to the required courses in the major are as follows. In lieu of History 200, any two of the following: History 350, 351, and 354. In lieu of History 201, any two of the following: History 356, 357, and 359. In lieu of History 300, both History 402 and 403. Students who complete both Social Sciences 142 and 144 will be allowed to complete European history course requirements either by taking History 300 and 301 or by taking two of the following: History 402, 403, 408, 500 and 535.

Requirements for a minor in history: 30 units, at least 20 of which must be on the upper-division level, to be selected in consultation with a history advisor.

A degree in history with an emphasis in either Black or Mexican-American studies should include the following: History 200, 201, 300, 301 and 490. The remaining 25 units shall be selected by the student and advisor from the appropriate ethnic studies concentration; 15 of these units must be in history. Courses
specified will be listed as an option contract to be filed with the ethnic studies coordinator.

Master of Arts: The College offers a Master of Arts in Education, with an option in history, for secondary teachers. Details on this graduate program may be secured from the department or the School of Education.

200. UNITED STATES HISTORY TO 1877
Survey of the history of the United States from the colonial beginnings to 1877. This course meets the state code requirement in the Constitution of the United States. To meet the state code requirements in American history, institutions and ideals both History 200 and 201 must be taken. (5 units)

201. UNITED STATES HISTORY, 1877 TO THE PRESENT
Survey of the history of the United States from 1877 to the present. To meet the state code requirement in American history, institutions and ideals both History 201 and 200 must be taken. (5 units)

300. EARLY MODERN EUROPE, THE RENAISSANCE TO 1815
Institutions, culture, and political development of Europe from the Renaissance to the end of the Napoleonic Wars. (5 units)

301. MODERN EUROPE, 1815 TO THE PRESENT
Institutions, culture, and political development of Europe from the Congress of Vienna to the present. (5 units)

322. THE CLASSICAL WORLD
Survey of major developments in Western civilization from the rise of Greece to the fall of Rome. (5 units)

331. BLACK HISTORY I: THE AFRICAN EXPERIENCE
Origin of sub-Saharan cultures and development of African civilizations through the 18th century; special emphasis on West Africa and the region's relationship to Black people of North America. (5 units)

334. BLACK HISTORY II: THE AMERICAN EXPERIENCE
Black people in America from the 17th century to the present day. (5 units)

350. THE AMERICAN COLONIES 1607-1783
The thirteen colonies from European origins to the attainment of independence. (5 units)

351. THE EVOLUTION OF AMERICAN DEMOCRACY, 1783-1840
Analysis of the development of American society, politics and economy during the Confederation, Federalist, Jeffersonian and Jacksonian Eras. (5 units)

354. CIVIL WAR AND RECONSTRUCTION
Background and causes of the Civil War and the problems of Reconstruction. (5 units)

356. THE UNITED STATES, 1877-1917
Transformation of the nation between the end of Reconstruction and entrance into World War I. (5 units)

357. THE UNITED STATES, 1917-1945
Principal developments in American life from World War I to the end of World War II. (5 units)

359. THE UNITED STATES SINCE 1945
Major changes in the United States since the end of World War II. (5 units)
370. HISTORY OF CALIFORNIA
Political, economic, social and cultural development of California from Spanish times to the present.
A. California to 1865. (2½ units)
B. California 1865–Present. This segment of the course will meet the state code requirement in California state and local government. (2½ units)

390. HISTORY OF MEXICO
Survey of Mexican history from early Indo-American civilizations to the present. (5 units)

391. CHICANO HISTORY
Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest. (5 units)

395. TOPICS IN HISTORY
Examination of topics of interest in history. May be repeated for credit as topics change. (5 units)

402. RENAISSANCE AND REFORMATION
Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648. (5 units)

403. THE AGE OF ABSOLUTISM AND ENLIGHTENMENT
The period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement and the growth of revolutionary ideas. (5 units)

408. THE DEVELOPMENT OF 20th CENTURY EUROPE, 1890–1945
Europe from the turn of the century period to the end of World War II. (5 units)

420. ECONOMIC HISTORY OF THE UNITED STATES
Economic history of the United States from the founding of the colonies to the present. (5 units)

469. COLONIAL LATIN AMERICA
Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period. (5 units)

470. MODERN LATIN AMERICA
Survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America. (5 units)

490. THE STUDY OF HISTORY
Introduction to the nature of history through a consideration of the problems of historical knowledge and of the works of major historians of the past. (5 units)

500. TUDOR AND STUART ENGLAND
Principal political, social, economic and religious developments of England from 1485 to 1688. (5 units)

513. WOMEN IN U.S. HISTORY
History of women in the United States from colonial times to the present. Special emphasis on demographic changes, labor, the family, and ethnic and class distinctions among women. (5 units)

535. STUDIES IN EUROPEAN NATIONAL HISTORY
Historical development of individual European nations (for example, Germany, France, Great Britain, Russia, Spain) in the modern period. May be repeated for credit as topics change. (5 units)

540. CONSTITUTIONAL HISTORY OF THE UNITED STATES
American constitutional development from English and European origins to the present day. This course meets the state code requirement in American history, institutions and ideals and in the Constitution of the United States. Prerequisite: History 200 or 201, or Political Science 410 or consent of instructor. (5 units)
555. INDEPENDENT STUDY
Special topics in historical research. A total of five units in History 555 may be applied toward the
major and 10 units in History 555 may be applied toward graduation. Prerequisites: A minimum
overall grade-point average of 3.0, consent of instructor and departmental approval of a written
proposal of a project submitted on a standard application filed in advance of the quarter in which
the course is to be taken. (5 units)

556. FOREIGN RELATIONS OF THE UNITED STATES
Survey of American foreign policy with special emphasis on America's rise to world power in the
20th century. (5 units)

560. HISTORY OF THE AMERICAN WEST
Survey of the western expansion of the American nation. (5 units)

565. ETHNIC MINORITIES IN AMERICAN HISTORY
Historical perspective of the major ethnic groups, their efforts to assimilate and their interaction with
American society. (5 units)

566. ETHNIC MINORITIES IN THE AMERICAN SOUTHWEST: PAST AND PRESENT
A comparative approach to the historical and contemporary experiences of Chicanos, Indians,
Asians and other ethnic minorities in the Southwestern/Western United States. (5 units)

575. INTERNSHIP IN HISTORY
Supervised work and study in work situations involving historical skills. May be repeated once for
credit. Prerequisites: major in history; one introductory statistics course; Administration 220, 301 and
306; or consent of the department. (5 units)

589. REVOLUTIONS IN HISTORY
Nature and causes of revolutions from an historical as well as a broad social science perspective;
both revolutions and revolutionists from different parts of the world are examined. (5 units)
The humanities major is interdisciplinary in concept, and students are encouraged to take courses in each of the six fields. The student may be concerned only with his or her individual development, but the major can also lead to one of the many professions related to arts and letters, to a continually widening spectrum of interests, or to graduate study specializing in a single field.

Inquire at the School of Humanities Office, Library-Classroom Building, Room 231 (Telephone 887-7441) for further information about the humanities program and academic advising and counseling.

Requirements for the major: 30 upper-division units in either Category A or B; 20 upper-division units in the other. Category A includes art, music and theatre arts courses not cross-listed with English; Category B includes English, foreign language (French, German or Spanish at present), philosophy. The major also requires three courses (101, 102, 103) or equivalent proficiency in a foreign language, Humanities 400 which must be taken during the senior year, and one five-unit elective from Humanities courses 460-496.


Recommended courses for the humanities major Category B are: English 301, 302, 303, 311, 333, 401, 403, 406, 409, 412, 415, 430, 432, 436, 450, 455, 456, 475, 476, 505; Foreign Languages 450; Humanities 496; Philosophy 301, 305, 307, 316, 340, 350, 370, 380, 450.

77. READING ENHANCEMENT FOR SPECIFIC SUBJECTS
Improvement in speed, vocabulary and comprehension of reading. Taught as an adjunct to specifically designated classes with emphasis on texts used in those classes. May be repeated as necessary. Units awarded for Humanities 77 are not applicable to a baccalaureate degree. Graded A,B,C/No Credit. (2 units)

99. READING ENHANCEMENT
Improvement in speed, vocabulary and comprehension of reading. Taught as a supplement to a variety of classes with an emphasis on texts used in existing classes. May be repeated as necessary. Units awarded for Humanities 99 are not applicable to a baccalaureate degree. Graded A,B,C/No Credit. (2 units)

319. MYTH, METAPHOR AND SYMBOL
Nature and function of myth and mythmaking; ways in which figurative language is used in different disciplines to create models for understanding the world and human experience. (5 units)

330. ARTS AND IDEAS
An interdisciplinary exploration of several ways in which different arts exhibit ideas and various ideas stimulate our understanding of and pleasure in the arts. (5 units)
350. LITERARY AND CULTURAL TRADITIONS OF WESTERN EUROPE
Major Western European aesthetic tendencies as seen in selected literary masterpieces and as reflected in art, architecture and music. (5 units)

353. POPULAR CULTURE
Significance and context of popular modes of art and entertainment focusing on selected periods, such as the rock generation. Course may be repeated as topics change; however, no more than five units of Humanities 353 may be used to satisfy general education requirements. (5 units)

360. CULTURES OF THE EAST
An interdisciplinary introduction to the cultural heritage of the nonwestern world as reflected in art, architecture, theatre, literature and music. (5 units)

400. HUMANITIES SEMINAR
A seminar considering the various ways (particularly through philosophy, literature and the arts) in which people deal with "human experience." Prerequisite: senior standing or consent of instructor. (5 units)

460. CULTURE STUDIES
Aspects of culture, language and civilization with emphasis upon major factors shaping national tradition. May be repeated for credit as topics change. (5 units)

495. EXPOSITORY WRITING FOR THE HUMANITIES
Writing related to the humanities including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. Graded A,B,C/No Credit. Prerequisites: English 101 and upper-division standing. (5 units)

496. SELECTED TOPICS IN HUMANITIES
Seminar in special topics chosen from arts or humanities. May be repeated with change of topic. (5 units)

499. METHODS AND MATERIALS IN THE TEACHING OF HUMANITIES
Integration of educational philosophy and pedagogical concepts with the specific teaching materials of disciplines in the humanities. This course may not be counted toward fulfilling requirements of courses in the majors below. Prerequisites: Education 330, senior or graduate standing and admission to the single subject credential program.
A. Art (5 units)
B. Foreign Languages (5 units)
C. English (5 units)
D. Music (5 units)
E. Theatre Arts (5 units)
F. Humanities (5 units)

600-level courses are open to postbaccalaureate and graduate students only.

695. DIRECTED GRADUATE STUDIES
Graduate-level independent study under the direct supervision of a faculty member approved by the committee on graduate education. (Credit to be arranged: 1 to 5 units)

699. THESIS
Preparation of M.A. thesis under the direction of a faculty member approved by the committee on graduate education. Maximum nine credits applicable toward the M.A., with a special major. Prerequisite: advancement to candidacy. (Credit to be arranged: 1 to 5 units)
HUMAN SERVICES

Human services is an interdisciplinary, career-oriented degree program drawing from sociology, psychology, ethnic studies and health science. It is particularly suited to the para-professional person whose work role is that of a generalist who must serve in a variety of work settings and deal with a variety of human needs. Consequently, courses have been selected and designed to meet minimum general occupational needs of human services personnel.

Inquire at the Sociology Department Office, Administration Building, Room 183 (Telephone 887-7224) for further information about the human services program and academic advising and counseling.

Requirements for the major: Health Science 120 and 371; Psychology 100, 201, 387, 390; Social Sciences 155; Sociology 100, 340, 354, 434 and Sociology 484 or Psychology 315; 15 additional units of upper-division course work (refer to Human Services Practice below); plus 10 units of internship/field study in either Psychology 575, Sociology 575 or Health Science 492A and 492B.

Honors in the Major: Students majoring in human services are eligible to receive honors in human services at graduation if the following conditions are met: (1) at least one-half of the course work required by the major is completed at this college, (2) at least a 3.5 GPA in the major, both at this college and overall, (3) an overall undergraduate GPA of 3.0 or better, and (4) completion of a senior project approved in advance by the program coordinator. Students interested in receiving this recognition must initiate the process by making a formal application with the Sociology Department secretary.

Introductory courses:

HEALTH SCIENCE 120. HEALTH AND SOCIETY: AN ECOLOGICAL APPROACH

PSYCHOLOGY 100. INTRODUCTION TO PSYCHOLOGY

SOCIAL SCIENCES 155. MINORITY GROUPS IN AMERICA

SOCIOLOGY 100. THE STUDY OF SOCIETY

Human Development and Behavior

PSYCHOLOGY 201. DEVELOPMENTAL PSYCHOLOGY

PSYCHOLOGY 390. ABNORMAL PSYCHOLOGY

SOCIOLOGY 340. SOCIOLOGY OF THE FAMILY

SOCIOLOGY 354. DEVIANT BEHAVIOR
Delivery of Human Services

HEALTH SCIENCE 371. ORGANIZATION AND FUNCTION OF COMMUNITY HEALTH SERVICES

PSYCHOLOGY 387. COMMUNITY PSYCHOLOGY

SOCIOLOGY 434. COMMUNITY ORGANIZATION

Human Services Practice
(15 units selected from at least two of the areas below)

1. HEALTH SCIENCE 340. DISEASES OF MAN
   HEALTH SCIENCE 351. FOODS, NUTRITION AND HEALTH

2. HEALTH SCIENCE 336. DRUG AND ALCOHOL USE AND ABUSE (2 1/2 units) and
   HEALTH SCIENCE 337. SPECIAL TOPICS IN DRUG AND ALCOHOL USE
   (2 1/2 units)
   PSYCHOLOGY 333. DRUGS AND BEHAVIOR

3. ANTHROPOLOGY 330. CROSS-CULTURAL CHILD-REARING PRACTICES
   HEALTH SCIENCE 435. CHILD AND YOUTH DEVELOPMENT: HEALTH ASPECTS
   PSYCHOLOGY 391. PSYCHOPATHOLOGY OF CHILDHOOD

4. HEALTH SCIENCE 423. HEALTH ASPECTS OF AGING
   PSYCHOLOGY 329. PSYCHOLOGY OF ADULTHOOD AND AGING
   SOCIOLOGY 330. SOCIAL GERONTOLOGY

5. SOCIOLOGY 352. JUVENILE OFFENDER
   SOCIOLOGY 358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

6. HEALTH SCIENCE 470. HEALTH BEHAVIOR AND COMMUNITY HEALTH EDUCATION

Methods

PSYCHOLOGY 315. HELPING PROCESSES
   or

SOCIOLOGY 484. SOCIAL CASEWORK

Internship/Field Study

Ten units of internship/field study selected to correspond with course work chosen above, selected in consultation with an advisor. The internship must be in either Psychology 575, Sociology 575, or Health Science 492A and 492B.
INTERDISCIPLINARY STUDIES

The College is developing a limited number of courses outside of its department and school structure.

Also offered as interdisciplinary studies are the certificate programs in international relations and bilingual/cross-cultural studies. See Pages 90 and 95.

101. WORDS AND IDEAS
A course combining English 101 and Philosophy 105. Students must complete I.S. 101A and I.S. 101B before credit can be granted for either. I.S. 101A must be taken before I.S. 101B. This course may be taken as an alternative to English 101 and Philosophy 105. Prerequisite: satisfactory score on the English placement test, or completion of the test and at least a grade of C in English 100. A. (5 units) B. (5 units)

386. THE ARTS AND SCIENCES AS HUMAN ACTIVITIES
A version of the 10-unit I.S. 388 course that extends over two consecutive quarters. A final grade will be assigned only upon successful completion of both terms, as demonstrated through a comprehensive examination taken at the end of the second term. See Page 56 for comprehensive examination limitations. A. (5 units) B. (5 units)

387. THE ARTS AND SCIENCES AS HUMAN ACTIVITIES
A version of the 15-unit I.S. 388 course that extends over two consecutive quarters. A final grade will be assigned only upon successful completion of both terms, as demonstrated through a comprehensive examination taken at the end of the second term. See Page 56 for comprehensive examination limitations. A. (7 1/2 units) B. (7 1/2 units)

388. THE ARTS AND SCIENCES AS HUMAN ACTIVITIES
Independent study of selected readings developed to meet the upper-division general education requirement and drawn from the natural sciences, social sciences and humanities. No class meetings; study guides available at the College bookstore outline entire quarter's work. Six-hour examination at end of term. See Page 56 for comprehensive examination limitations. (10 or 15 units)

460. ASPECTS OF CHICANO CULTURE
Cultural, political and social values of the Chicano as reflected in Chicano literature, art, music, teatro and other forms and their relationship to concurrent developments in Mexico. (5 units)

600-level courses are open to postbaccalaureate and graduate students only.

695. DIRECTED GRADUATE STUDIES
Graduate-level independent study for students in the program for the M.A. with a special major; to be conducted under direct supervision of a faculty member from the student's committee and with approval of the committee on graduate education. (Credit to be arranged: 1 to 6 units)

698. EXTENDED ENROLLMENT
Independent study leading to completion of requirements (other than course work) for the M.A. degree. Students enrolled in this course have full use of College facilities. Prerequisites: advancement to candidacy and consent of the Associate Dean of Graduate Studies. (0 units)
699. GRADUATE THESIS
Preparation of the thesis for the M.A. with a special major, under the direction of a faculty member from the student’s committee and with approval of the Associate Dean of Graduate Studies. Maximum of 9 credits applicable toward the M.A. Prerequisite: advancement to candidacy. (Credit to be arranged: 1 to 9 units)
LIBERAL STUDIES

The B.A. in Liberal Studies is a multidisciplinary degree program designed for students whose needs or interests are for a more broadly based liberal arts curriculum than is possible through existing disciplines. Although the program is open to all students, it should prove of particular value to those who plan to enter the elementary teaching field.

Inquire at the Liberal Studies Office, Library-Classroom Building, Room 266C (Telephone 887-7483 or 887-7445) for further information about the liberal studies program and academic advising and counseling.

Basic program * 126 units

- English (including grammar, literature, composition and speech) ........................................... 32
- Mathematics and the physical and life sciences .......................................................... 30
- Social sciences ............................................................................................................. 32
- Humanities and the fine arts (including foreign languages) ........................................... 32
- Field of concentration ................................................................................................. 18
- Physical education activity ......................................................................................... 6
- Free electives ............................................................................................................. 36

186 units

A student electing to complete the B.A. in Liberal Studies is also required to meet the general education requirements. A careful selection of courses within the major, including electives, will enable the student to complete the general education requirements, as well as the major, without additional course work.

By an appropriate selection of course work in the basic program, the field of concentration and the free electives, the following objectives may be achieved:

1. Completion of a second major in certain fields.
2. Completion of the professional education requirements leading to a multiple subjects teaching credential.

Basic Program

The basic program for the B.A. in Liberal Studies is divided into four broad categories. Within each of these four, the course work is further subdivided into courses in required areas and elective courses.

* A 2.0 grade-point average in each area of the basic program is required.
English

Two courses in composition:
   English 101
   English 495

One course in literary analysis:
   English 301 or 302 or 303

One course in language:
   English 311

Electives (12 units)
   Ten units must be upper-division. Selections are to be made from the course offerings of the Department of English; Theatre Arts 120 and 210 are also acceptable.

Humanities

One course in the arts:
   Art 200 or Theatre Arts 250 or Music 180

Two courses in letters:
   English 110, 111 and 170; Foreign Language 450; French 101-102-103;
   German 101-102-103; Spanish 101-102-103, and 450; Philosophy 190

Humanities activity (2 units):
   To be chosen from Art 201, 203, 204, 304, 354, 357, 395, 397, 483, 484;
   English 372; Theatre Arts 320; Music 205, 206, 220, 221, 222, 380 through 391

Electives (15 units):
   Ten units must be upper-division. Selections are to be made from the course offerings of the School of Humanities (excluding English).

Social sciences

Three courses in civilization:
   Social Sciences 140, 142, 144, 146, 151, 155, 160, 165
   Social Sciences 497 or History 370A or History 370B

Electives (14½ units):
   Ten units must be upper-division. Selections are to be made from the course offerings of the School of Social and Behavioral Sciences.

Natural Sciences and Mathematics

One course in basic mathematics:
   Mathematics 100 or 110 or 120 or 200

One course in applied mathematics:
   Mathematics 150 or Mathematics 301 or 350 or Computer Science 120

One course in life sciences:
   Biology 100 or 202
   Health Science 120

One course in physical sciences:
   Chemistry 100; Earth Science 101; Geography 103; Natural Sciences 100;
   Physics 100
Electives (7.5 units)*

One course must be upper-division. Selections are to be made from the course offerings of the School of Natural Sciences (excluding nursing and physical education).

Field of Concentration

The field of concentration requires 18 quarter units, with at least 15 units at the upper-division level. Courses to meet this requirement, to be selected in consultation with an advisor, must be from a single one of the disciplines below:

Art
Arts in the Classroom
English
Foreign Literature in Translation
French
German
Music
Philosophy
Spanish
Theatre Arts
Administration
Anthropology
Child Development
Economics
Geography
History
Political Science
Psychology
Sociology

Bilingual/Cross-cultural Studies Emphasis

A multiple subjects credential candidate may pursue a bilingual/cross-cultural focus within the liberal arts major. The bilingual/cross-cultural focus requires a different basic program than the standard liberal studies program. The program is outlined below:

English
Two courses in composition:
   English 101
   English 495
One course in literary analysis:
   English 301 or 302 or 303
One course in language:
   English 311
Electives (12 units)
   Ten units must be upper-division. Selections are to be made from the course offerings of the Department of English; Theatre Arts 120 and 210 are also acceptable.

Humanities
   Art 200 or Music 180 or Theatre Arts 250,
   Spanish 101, 102, 103,
   Spanish 301, or 414
   One upper-division elective to be selected from Art 328 or 329, Foreign Language 450, Humanities 460, Music 351, Spanish 302, Spanish 440, Spanish 450

*As one of these electives, those seeking a multiple-subjects teaching credential may meet the state-mandated requirement in health education by taking one of the following: Health Science 330, 338, 337, 426, 435 or 440.
Two units of humanities activity to be chosen from Art 201, 203, 204, 304, 354, 357, 395, 397, 483, 484; English 372; Theatre Arts 320; Music 205, 206, 220, 221, 222, 380 through 391

Social Sciences
Three courses in civilization, to be chosen from Social Sciences 140, 142, 144, 146, 151, 155, 160, 165
One lower or upper and one upper-division elective to be chosen from:
  Anthropology 354, 460; History 390, 391, 565, 566; Political Science 351;
  Psychology 347; Sociology 342, 410, 442
Social Sciences 497 or History 370A or History 370B
One upper-division elective from the School of Social and Behavioral Sciences that fulfills the upper-division general education requirement.

Physical and Life Sciences and Mathematics
One course in basic mathematics, to be chosen from:
  Mathematics 100, 110, 120, 200
One course in applied mathematics, to be chosen from:
  Mathematics 150, 301, 350, Computer Science 120
One course in the life sciences:
  Biology 100 or 202
  Health Science 120
One course in the physical sciences:
  Chemistry 100; Earth Science 101; Geography 103; Natural Sciences 100;
  Physics 100
One lower or upper-division elective from the course offerings of the School of Natural Sciences (excluding nursing and physical education).
One upper-division elective from the course offerings of the School of Natural Sciences that fulfills the upper-division general education requirement.

The field of concentration requires 18 quarter units, with at least 15 units at the upper-division level. Courses to meet this requirement to be selected from the following:

†ANTHROPOLOGY 354. CULTURES OF MEXICO AND CENTRAL AMERICA
†ANTHROPOLOGY 460. LANGUAGE AND CULTURE
†ART 328. MEXICAN ART
†ART 329. CHICANO ART
EDUCATION 536. TEACHING THE CULTURALLY DIFFERENT
†FOREIGN LANGUAGES 450. LITERATURE IN TRANSLATION: MEXICAN
†HISTORY 390. HISTORY OF MEXICO
†HISTORY 391. CHICANO HISTORY
†HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY

† These courses may be used as electives if they have not already been used for the basic program.
HISTORY 566. ETHNIC MINORITIES IN THE AMERICAN SOUTHWEST: PAST AND PRESENT

HUMANITIES 460. CULTURE STUDIES: MEXICAN
INTERDISCIPLINARY STUDIES 460. ASPECTS OF CHICANO CULTURE

MUSIC 351. MEXICAN AND CHICANO MUSIC

POLITICAL SCIENCE 351. THE CHICANO AND POLITICS

PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO

SOCIOLOGY 342. THE CHICANO FAMILY

SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES

SPANISH 202. GRAMMAR AND COMPOSITION

SPANISH 204. INTRODUCTION TO LITERARY TEXTS

SPANISH 302. THEORY AND PRACTICE IN COMPOSITION

SPANISH 440. MEXICAN LITERATURE

† These courses may be used as electives if they have not already been used for the basic program.
The role of mathematics in society is rapidly growing. New mathematical methods are making an ever wider range of problems amenable to quantitative treatment, thus stimulating new applications, especially in the social, behavioral, management and biological sciences. Computers, able to process formerly unmanageable masses of data and to perform prodigious computational chores, have freed mathematicians to attack problems arising in such diverse areas as industrial management, medical research, environmental studies, ecology, psychology and space exploration.

The mathematics program at California State College, San Bernardino prepares students for careers utilizing applied mathematics, such as oceanography, biostatistics, and computer design and analysis. The program also prepares students interested in teaching, and for others it provides the well-rounded background necessary for graduate work in mathematics and the social and physical sciences.

Inquire at the Mathematics Department Office, Biological Sciences Building, Room 122 (Telephone 887-7351) for further information about the mathematics program and academic advising and counseling.

Requirements for the bachelor of arts degree: 55 units in mathematics including Mathematics 200-201-202-203, 331-332-333, 550A, 570A and 10 units in upper-division electives, not to include Mathematics 301, 302, 350, 504 or Natural Sciences 499, chosen in consultation with the advisor. Computer Science 240 or both Computer Science 131 and 132 is also required.

Requirements for the bachelor of science degree: Mathematics 200-201-202-203, 331-332-333, 550A, 560A, 570A and B, and five units of upper-division electives, not to include Mathematics 301, 302, 350, 504 or Natural Sciences 499, chosen in consultation with the advisor; 25 units in additional courses beyond the general education requirements from at most two disciplines in the natural sciences, chosen in consultation with the advisor. Also required is Computer Science 240 or both Computer Science 131 and 132.

The required core of the major programs (Mathematics 331-332-333, 550A and 570A) is designed to provide a solid background for a student planning a career as either an applied mathematician or secondary mathematics teacher or planning to study mathematics on the graduate level.

Requirements for a minor in mathematics: Computer Science 240 and Mathematics 200-201-202, 331 and 332.

Departmental Honors: The department faculty will determine whether a student is to be awarded departmental honors upon graduation. The sole criterion will be the student's ability to do quality independent work in mathematics. One or more of the following types of activities will be required in order for a student to be considered: (1) completion of Mathematics 595 Independent Study, (2)
completion of independent study assignments in regular upper-division mathematics courses, (3) challenge by examination of upper-division mathematics courses; and (4) extracurricular independent study projects. Mathematics 595 Independent Study will be offered on demand. Majors planning to enroll should request department consent and assignment of a project one term in advance of the term in which the course will be taken.

70. FUNDAMENTAL ARITHMETIC
Fundamental topics in arithmetic, including a preview of algebra. Units awarded for Mathematics 70 are not applicable to a baccalaureate degree. Graded A, B, C/No Credit. (5 units)

80. FUNDAMENTAL ALGEBRA
Arithmetic operations, linear and quadratic equations, applications and introduction to graphing. Units awarded for Mathematics 80 are not applicable to a baccalaureate degree. Graded A, B, C/No Credit. (5 units)

100. THE IDEAS OF MATHEMATICS
Topics include inductive and deductive reasoning, mathematical patterns, methods of counting, basic concepts of probability and statistics. (5 units)

110. INTRODUCTION TO COLLEGE MATHEMATICS
Set theory, inequalities, absolute value, algebraic functions, graphing, systems of equations, linear algebra. (5 units)

120. PRE-CALCULUS MATHEMATICS
Inequalities; absolute value; algebraic, logarithmic, trigonometric and exponential functions; miscellaneous topics. Prerequisites: plane geometry and two semesters of high school advanced algebra or its equivalent. (5 units)

150. ELEMENTARY STATISTICS
Basic principles of statistics with applications to the natural and behavioral sciences. Prerequisite: a year of high school advanced algebra or its equivalent. (5 units)

200. BASIC CONCEPTS OF CALCULUS
An introduction to differentiation and integration of functions in one variable, with applications. (5 units)

201. CALCULUS II
Transcendental functions, formal integration, differentials and the law of the mean, fundamental theorem of integral calculus, arc length and curvature, physical applications, improper integrals. Prerequisite: Mathematics 200 with a grade of C or better or consent of the department chairman. (5 units)

202. CALCULUS III
Curve sketching, areas, arc lengths, and curvature in polar coordinates; solid analytic geometry and vector calculus; partial differentiation and multiple integration with applications to geometry and physics. Prerequisite: Mathematics 201 with a grade of C or better or consent of the department chairman. (5 units)

203. CALCULUS IV
Sequences, infinite series and expansion of functions; the elements of ordinary differential equations including the general linear equation with constant coefficients; applications. Prerequisite: Mathematics 201 with a grade of C or better or consent of the department chairman. (5 units)

301. MODERN ARITHMETIC
Various mathematical systems and their arithmetics. This course is designed for non-mathematics majors. (5 units)
302. MODERN MATHEMATICS
Units of measurement, descriptive statistics, use of computers and other topics are integrated into a treatment of mathematical problem solving. May not be counted toward fulfilling requirements in the mathematics major. (5 units)

331. LINEAR ALGEBRA
Vector spaces over a field, linear dependence, dimension; matrices and systems of linear equations; special matrices and canonical forms; characteristic values and vectors; diagonalization of quadratic and Hermitian forms; applications. A knowledge of BASIC is strongly recommended. Prerequisite: Mathematics 203 or consent of instructor. (5 units)

332. INTRODUCTION TO PROBABILITY
Sets, sample spaces, combinatorics, random variables, moments, density, and distribution functions, laws of large numbers. A knowledge of BASIC is strongly recommended. Prerequisite: Mathematics 203 or consent of instructor. (5 units)

333. INTRODUCTION TO MATHEMATICAL MODELS
Linear and probabilistic models, computer simulation, difference and differential equation models. Prerequisites: Mathematics 331, 332 and Computer Science 135 or 140 or consent of instructor. (5 units)

350. STATISTICS: HYPOTHESIS TESTING AND ESTIMATION
After a brief introduction to descriptive statistics, course will emphasize hypothesis testing and estimation, using packaged computer programs. Prerequisite: one term of college mathematics. (5 units)

420. NUMERICAL METHODS
Introduction to numerical methods for finding solutions of non-linear equations, systems of linear equations and ordinary differential equations. Discussion of errors and numerical instabilities; numerical differentiation; numerical integration. Prerequisites: Mathematics 203 and Computer Science 135 or equivalent. (5 units)

445. INTRODUCTION TO MATHEMATICAL STATISTICS
Likelihood ratio, estimators, distributions of estimators, theory of hypothesis testing, linear statistical models. Prerequisite: Mathematics 332. (5 units)

504. QUANTITATIVE TOOLS FOR MANAGEMENT
An intensive introduction to applied topics in statistics, algebraic functions and linear programming for graduate students. No credit will be awarded to students who have had all of the following: Mathematics 110 or 120, Administration 210 or Mathematics 150 or 350, and Administration 304. May not be counted toward fulfilling requirements for any degree program offered by the School of Administration or the School of Natural Sciences. (Also offered as Administration 504. Students may not receive credit for both.) (5 units)

520. GRAPH THEORY
Graphs and subgraphs including Eulerian, planar and Hamiltonian graphs, adjacency and incidence matrices, trees and topological parameters. Prerequisite: Mathematics 200. (2½ units)

521. MATHEMATICAL THEORY OF GAMES
Matrix games, pure and mixed strategies, minimax theorem; basic concepts in non-cooperative and cooperative n-player games. Examples from military, political and economic "games." Prerequisite: Mathematics 200. (2½ units)

539. GEOMETRY
Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. Prerequisite: Mathematics 331 or consent of instructor. (5 units)
550. ANALYSIS
Continuous and differentiable functions, infinite series, Riemann and improper integrals. Uniform convergence, computation with series, functions represented by integrals, Fourier series, Lebesgue measure and integration. Prerequisite: Mathematics 203 or 331 or consent of instructor.
A. (5 units)
B. (5 units)

560. TOPICS IN ADVANCED ANALYSIS
A. Ordinary Differential Equations. Prerequisites: Mathematics 331 and Computer Science 135 or 140. (5 units)
B. Functions of a Complex Variable. Prerequisite: Mathematics 203. (5 units)
C. Topology. Prerequisite: Mathematics 332. (5 units)

570. TOPICS IN ALGEBRA
Abstract algebra includes the study of groups, rings and fields, while number theory provides examples and motivation for the algebraic concepts through studying the natural numbers.
A. Abstract Algebra. Prerequisite: Mathematics 332. (5 units)
B. Advanced Abstract Algebra. Prerequisite: Mathematics 570A. (5 units)
C. Number Theory. Prerequisite: Mathematics 331. (5 units)

595. INDEPENDENT STUDY
An independent study course for senior mathematics majors. Prerequisites: Mathematics 331 and 550A, a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)
MILITARY SCIENCE (ROTC)

The military science program is designed to provide an on-campus commissioning program available to all students who may wish to consider a career as an Army officer or to serve as a commissioned participant in the reserve components while in a civilian status. Students may pursue any academic major while participating in the military science program, also known as the Reserve Officers' Training Corps (ROTC). Enrollment in ROTC for fulfillment of requirements for commissioning may commence during any phase of college attendance.

All lower-division work in the program may be waived by the ROTC staff for students who have undergone certain military experiences, for example, appropriate active duty. No academic credit will be given in granting such waivers.

Every ROTC student is required to attend an off-campus leadership laboratory 4½ hours per month.

Lower-division military science courses are open to all students (with no commitment to ROTC), whereas upper-division military science courses are open only to ROTC students.

Inquire at the Military Science Office, Administration Building, Room 124 (Telephone 887-7273) for further information about the military science program.

The military science (ROTC) basic course of study consists of the following: Military Science 151, 152, 153, 251, 252, 253 or Administration 302, and Military Science 254.

The advanced course of study consists of the following: Military Science 351, 352, 353, 451, 452, 453 plus an ROTC advanced camp.

151. HISTORY OF THE WORLD WARS: 1860–1918
Historical survey of late 19th and early 20th century warfare, with special attention to impact of technology and evolution of tactics. (2½ units)

152. HISTORY OF THE WORLD WARS: 1919–1941
Historical survey of early to mid-20th century warfare, with special attention to the impact of new tactics and materiel. (2½ units)

153. HISTORY OF THE WORLD WARS: 1942–PRESENT
Historical survey of mid-20th century warfare, with special attention to constraints imposed by nuclear weapons. (2½ units)

251. CIVIL-MILITARY RELATIONS I
Comparative survey of the interrelationships between the political and military sectors in a variety of modern nation states. (2½ units)

252. CIVIL-MILITARY RELATIONS II
Analysis of current civil-military relations in the United States. (2½ units)
214 / Military Science (ROTC)

253. PSYCHOLOGY OF LEADERSHIP AND MANAGEMENT
Psychological theories, models and concepts as applied to the practice of leadership and management. (2½ units)

254. FUNDAMENTALS OF MAP READING AND LAND NAVIGATION
Practical application of skills necessary to read a map and navigate on the ground. (2 units)

351. SMALL UNIT OPERATIONS I
Current tactical doctrine as applied to small unit operations. Prerequisite: advanced standing in the ROTC program. (2 units)

352. SMALL UNIT OPERATIONS II
Continuation of current tactical doctrine as applied to small unit operations, with special attention to the leader's role. Prerequisite: Military Science 351. (2 units)

353. ADVANCED MILITARY LEADERSHIP AND MANAGEMENT
Leadership skills required of an ROTC cadet at advanced camp and as a junior officer in the armed forces. Prerequisite: Military Science 352. (2 units)

451. MILITARY LAW
Military justice system, including a history of military law, philosophy and structure of the military justice system, courts-martial and alternatives to courts-martial. Prerequisite: ROTC Advanced Camp. (2½ units)

452. CONTEMPORARY MILITARY POLICY
Contemporary military policy and related subjects of topical military interest relevant to the training of junior-level officers. Prerequisite: Military Science 451. (2½ units)

453. SENIOR LEADERSHIP SEMINAR
Leadership and management problems encountered in a company-sized unit, with emphasis on the role of the junior officer. Prerequisite: Military Science 452. (2½ units)
The contemporary musician has a potential access to more kinds of music than ever before in history. The music curriculum—with courses in electronic music, performance, world music, historical studies, music education and integrated theory—reflects that diversity in that it offers programs for the student who wishes to enrich his or her education, become a professional musician, pursue an advanced degree in music or enter the teaching profession.

Inquire at the Music Department Office, Creative Arts Building, Room 175 (Telephone 887-7454) for further information about the music program and academic advising and counseling.

Requirements for the major: proficiency in theory equal to Music 112 or its equivalent. 65 units distributed as follows: Music 313-314-315, three units of applied music at the upper-division level, Option I or Option II; proficiency in piano, demonstrated by satisfactory completion of a placement examination or by passing Music 222 with a minimum grade of B; successful completion of six repertory listening examinations; six quarters of concert attendance (at least eight Music Department concerts, recitals and related programs must be attended per quarter) or equivalent.

Option I. 47 units of which 35 must be at the upper-division level selected in consultation with a faculty advisor. Participation in a performance ensemble is required each quarter in residence. This option, open to all students, is especially suited as preparation for careers in performance or teaching at the college level.

Option II. One unit each of Music 205 and 206; two units each of Music 201, 202, 203, 204. Music 210, 304, 305, 306, 311AB (or 312AB), 350, 406, 408, 510. Participation in a large performance ensemble is required each quarter in residence. Open to all students, this option is especially suited as preparation for the Ryan Act single subject teaching credential in music.

The department has a number of performance groups open to all students. The nature of these groups makes it essential that students register for a minimum of two or more successive quarters in any one ensemble.

A maximum of 15 units in applied music or courses listed under music education may be included in the total requirements for the major. Further information may be found in the department’s Handbook For Music Majors.

Requirements for a minor: Music 100, 180, 220; at least one course in world music; two other five-unit courses, one of which must be at the upper-division level; and the successful completion of three repertory listening examinations.

THEORY

The integrated music theory courses are the core of a program which seeks to develop in the student the ability to cope with any aural experience. The courses deal with the materials of music and how they combine to create musical structures, analysis of representative works and continued development of the musical ear and keyboard facility. Designed primarily for the music major and the liberal arts student with a serious interest in music.
100. BASIC MUSICIANSHIP
Rudiments of music: pitch, rhythm, scales, melody, sightsinging, dictation and introductory keyboard activity. Credits may not be counted toward fulfilling requirements of the music major. Lecture and two hours of laboratory. (5 units)

111. THEORY I
Basic materials of music and how they combine to create musical structures. Analysis of representative works is combined with creative work in counterpoint and harmony, together with sightsinging, ear training and keyboard harmony. Lecture and four hours of laboratory. Prerequisite: Music 100 or equivalent or placement examination. (5 units)

112. THEORY II
Continuation of Music 111. Lecture and four hours of laboratory. Prerequisite: Music 111 or equivalent or consent of instructor. (5 units)

313. THEORY III
Melody, harmony and texture as they relate to musical structure; extension of tonality and its eventual evolution into 20th-century practice; analysis of representative compositions; continuation of sightsinging, ear and keyboard training. Lecture and four hours of laboratory. Prerequisite: Music 112 or equivalent, or consent of instructor. (5 units)

314. THEORY IV
Continuation of Music 313. Lecture and four hours of laboratory. Prerequisite: Music 313 or equivalent or consent of instructor. (5 units)

315. THEORY V
Continuation of Music 314. Lecture and four hours of laboratory. Prerequisite: Music 314 or equivalent or consent of instructor. (5 units)

542. STUDIES IN MUSICAL ORGANIZATION
Intensive study of one aspect of musical organization: tonal, melodic or rhythmic. Content will vary. May be repeated for credit. Prerequisite: satisfactory completion of Music 315 or equivalent. (5 units)

HISTORY AND LITERATURE
These courses are concerned with musical ideas and styles, as well as social and aesthetic factors influencing sounds composers ultimately preferred and organized.

180. STUDIES IN MUSIC
Exploration of the elements of music and the nature of meaning and musical style, with emphasis on listening and analysis. (5 units)

304. HISTORY OF MUSIC I
Development of Western music from antiquity through the Renaissance, with emphasis on analysis, listening and individual study. Prerequisite: Music 112 or consent of instructor. (5 units)

305. HISTORY OF MUSIC II
Continuation of Music 304. Baroque to the late nineteenth century. Prerequisite: Music 112 or consent of instructor. (5 units)

306. HISTORY OF MUSIC III
Continuation of Music 305. Late Romantic to the present. Prerequisite: Music 112 or consent of instructor. (5 units)
311. CHORAL CONDUCTING
A comprehensive survey of standard choral literature.
A. Study and application of interpretative aspect of choral conducting. Prerequisite: Music 210. (2½ units)
B. Study and survey of vocal music for large and small organizations, music for madrigal groups, glee clubs, popular and jazz choirs. Prerequisite: Music 311A. (2½ units)

312. INSTRUMENTAL CONDUCTING
Emphasis on techniques for performance of standard orchestral and wind ensemble/concert band literature.
A. Level of literature discussed includes elementary and early secondary grades. Prerequisite: Music 210, or consent of instructor. (2½ units)
B. Level of literature discussed includes secondary grades and professional ensembles. Prerequisite: Music 312A or consent of instructor. (2½ units)

400. STUDIES IN COMPOSERS
Intensive study into works of a particular composer. Content will vary. May be repeated for credit. (5 units)

402. STUDIES IN FORMS
Intensive study into a particular form. Content will vary. May be repeated for credit. (5 units)

406. ORCHESTRATION
Instrumental literature and orchestration, including study of the instruments of the orchestra and writing for instrumental groups. Prerequisite: Music 112 or consent of instructor. (2½ units)

408. ARRANGING
Continuation of Music 406. Techniques of arranging for instrumental and vocal groups. Prerequisite: Music 406 or consent of instructor. (2½ units)

426. STUDIES IN MUSIC HISTORY
Intensive study in selected style periods of music. May be repeated for credit as topics change. (5 units)

510. SPECIAL TOPICS IN MUSIC
Areas of special interest in the various fields of music selected for special presentation and development. May be repeated for credit as topics change. Prerequisite: consent of instructor. (5 units)

WORLD MUSIC
The following courses are concerned with music as it has developed and as it exists in various cultures of the world. Courses include background necessary to enable the student to understand the role of music in particular societies. Visiting faculty and guest musicians when possible. No prerequisites. Non-music majors encouraged to enroll.

350. MUSIC OF OTHER CULTURES
Offered either as a survey of world music or as an intensive study into the music of a particular country or region. May be repeated for credit. (5 units)

351. MEXICAN AND CHICANO MUSIC
Musical cultural heritage of Mexico and its relation to the American community. (5 units)

352. AFRO-AMERICAN MUSIC
Historical development of the Afro-American musical heritage. (5 units)

360. MUSIC IN THE UNITED STATES
Primarily concerned with music not directly related to Western European classical traditions: folk heritage and blues tradition. (5 units)
COMPOSITION

Working creatively with sound in a relatively unstructured situation. Experimentation is encouraged, based on individual abilities and preferences. Composition courses may be repeated for credit with consent of instructor.

416. ELECTRONIC MUSIC
Techniques of electronic composition. Experimentation based on individual abilities and preferences. Non-majors encouraged to enroll. (5 units)

418. SYNTHESIZERS
Use and understanding of voltage control devices, particularly the Buchla, Synthi and Moog synthesizers. Prerequisite: Music 416 or consent of instructor. (2½ units)

419. STUDIO RECORDING TECHNIQUES
Introductory course dealing with microphone techniques, aspects of recording, multi-tracking, mix-down and editing. (2½ units)

INDEPENDENT STUDY

528. SPECIAL PROJECTS
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. Prerequisite: consent of instructor. (1 to 5 units)

MUSIC EDUCATION

The following courses are designed for the prospective elementary and secondary school teacher.

201. CLASS STRINGS
Beginning study on violin, viola, cello and bass. May be repeated for credit. (1 unit)

202. CLASS WOODWINDS
Beginning study on selected woodwinds. May be repeated for credit. (1 unit)

203. CLASS BRASS
Beginning study on selected brass instruments. May be repeated for credit. (1 unit)

204. CLASS PERCUSSION
Beginning study of percussion instruments. May be repeated for credit. (1 unit)

205. CLASS GUITAR AND FOLK MUSIC
Beginning guitar instruction designed for the prospective elementary school teacher. May be repeated for credit. (1 unit)

206. CLASS VOICE
Fundamentals of singing, voice production and diction. (1 unit)

210. CONDUCTING
Introduction to basic conducting techniques. (2 units)

220. CLASS PIANO 1
Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)
221. CLASS PIANO II  
Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

222. CLASS PIANO III  
Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

302. MUSIC THEATRE PRODUCTION  
(2 units)

519. AUDIO PRODUCTION  
Methods for creating appropriate musical/audio instructional materials using basic audio production equipment. Does not count toward the music major. (2½ units)

531. MUSIC IN THE CLASSROOM  
A correlated study of basic music theory, piano and vocal technique and classroom skills. Designed for the elementary teacher. Not open to majors in music. (5 units)

APPLIED MUSIC  
Music majors are required to take a minimum of three units of applied music at the upper-division level. Applied music units on the same instrument may not be taken concurrently. A maximum of 15 units may be applied to the total requirements for the major. Permission to register in upper-division music courses can be granted only after a placement audition or by faculty recommendation. Applied music courses are available to undergraduate music majors only.

For students planning a career in music education, it is strongly recommended that, in addition to the three-unit requirement on a major instrument, three units of applied music study on a secondary instrument be included.

Students planning a career in performance are expected to study on their major instrument each quarter they are in residence. Students working in other areas may develop applied music programs consistent with their interest and goals.

The following music courses are available to undergraduate music majors only.

240. BEGINNING AND INTERMEDIATE VOICE  
(1 unit)

241. BEGINNING AND INTERMEDIATE KEYBOARD INSTRUMENT  
(1 unit)

242. BEGINNING AND INTERMEDIATE STRING INSTRUMENT  
(1 unit)

243. BEGINNING AND INTERMEDIATE WIND INSTRUMENT  
(1 unit)

244. BEGINNING AND INTERMEDIATE BRASS INSTRUMENT  
(1 unit)

245. BEGINNING AND INTERMEDIATE PERCUSSION INSTRUMENT  
(1 unit)

440. ADVANCED VOICE  
Prerequisite: placement audition or consent of instructor. (1 unit)
441. ADVANCED KEYBOARD INSTRUMENT
Prerequisite: placement audition or consent of instructor. (1 unit)

442. ADVANCED STRING INSTRUMENT
Prerequisite: placement audition or consent of instructor. (1 unit)

443. ADVANCED WIND INSTRUMENT
Prerequisite: placement audition or consent of instructor. (1 unit)

444. ADVANCED BRASS INSTRUMENT
Prerequisite: placement audition or consent of instructor. (1 unit)

445. ADVANCED PERCUSSION INSTRUMENT
Prerequisite: placement audition or consent of instructor. (1 unit)

PERFORMANCE ORGANIZATIONS

Participation in performance organizations may be repeated for credit, but may not be counted toward fulfilling course requirements in the music major.

380. CHAMBER ORCHESTRA
Prerequisite: consent of instructor. (1 unit)

381. WIND ENSEMBLE
Prerequisite: consent of instructor. (1 unit)

382. CHAMBER MUSIC
Prerequisite: consent of instructor. (1 unit)

383. SUPPLEMENTARY KEYBOARD TECHNIQUES
An intensive piano course which includes techniques of sight reading, accompanying, improvisation and ensemble performance. Corequisite: Music 241 or 441. Prerequisite: consent of instructor. (1 unit)

385. CONCERT CHOIR
Prerequisite: consent of instructor. (1 unit)

386. CHAMBER SINGERS
Prerequisite: consent of instructor. (1 unit)

387. OPERA WORKSHOP
Prerequisite: consent of instructor. (1 unit)

391. JAZZ ENSEMBLE
Prerequisite: consent of instructor. (1 unit)

395. COLLEGIATE CHORUS
Designed to serve the needs of students with no prior choral experience who wish to perform familiar music in a popular style. Will present at least one public performance per quarter. Open to all students without audition. This course will not satisfy the music major ensemble requirement. (1 unit)
COMMUNITY SERVICE PROJECT

399. COMMUNITY SERVICE PROJECT
Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of instructor. (Credit to be arranged: 1 or 2 units)
The College offers courses of an interdisciplinary nature but no degree program under the natural sciences designation.

Inquire at the School of Natural Sciences Office, Biological Sciences Building, Room 130 (Telephone 887-7341) for further information about the natural science offerings.

100. DESCRIPTIVE ASTRONOMY
A brief history of the development of astronomy followed by modern descriptions of our planetary system, stars, galaxies and models of the universe. Discussions of space exploration and other methods of extending knowledge of the universe. No previous background in natural sciences is required. Lecture and two hours of laboratory. (5 units)

300. SCIENCE AND TECHNOLOGY
Relationship between science and technology—past, present and future—with case studies of the energy crisis, the technology of pollution control and recycling, automation, computers, technology assessment and other contemporary issues. (5 units)

310. MAN AND HIS ENVIRONMENT
Effects of science and technology on the environment. Special attention will be given to pollution sources, effects and possible solutions. (5 units)

312. SCIENTIFIC CONTRIBUTIONS TO THE DEVELOPMENT OF CIVILIZATION: "ASCENT OF MAN"
Scientific discoveries that have shaped human history, interrelationship between science and the humanities, impact of science and technology on civilization. (5 units)

320. ENERGY
Present and future energy sources, including fossil fuels, hydroelectric power, nuclear energy and solar energy. Scientific principles and technological requirements for developing energy sources, economic factors and environmental problems associated with energy production and consumption. (5 units)

350. NATURAL PHENOMENA
Physical principles underlying natural phenomena and illusions, such as earthquakes, continental drift, geomagnetism, tides, weather, rainbows, auroras and mirages. (5 units)

351. HEALTH AND HUMAN ECOLOGY
A survey of the impact of physical, social and biological environments on health related issues such as poor housing, drug abuse, juvenile delinquency, radiation and pesticide exposure, food quality, noise, air and water resources and their relation to human settlements. (5 units)

395. DIRECTED STUDY
Reading and library research in one of the natural sciences disciplines conducted under the direction of a faculty member. Prerequisites: consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)
495. EXPOSITORY WRITING FOR THE NATURAL SCIENCES
Writing on topics related to the natural sciences, including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. Graded A, B, C/No Credit. Prerequisites: English 101 and upper-division standing. (5 units)

499. METHODS AND MATERIALS IN THE TEACHING OF NATURAL SCIENCES SUBJECTS
Individualized instruction in the methods and materials for the teaching of such natural sciences subjects as chemistry, life science, mathematics, physical education and physics. This course may not be counted toward fulfilling requirements of courses in the above majors. Prerequisites: Education 330, senior or graduate standing and admission to the single subject credential program or consent of School of Natural Sciences. (5 units)

595. INDEPENDENT STUDY
Research in special topics including library studies, field and/or laboratory work in one of the Natural Sciences disciplines under the direction of a faculty member. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. A maximum of six units in Natural Sciences 595 may be applied toward graduation. (Credit to be arranged: 1 to 6 units)
NURSING

Accredited by the National League for Nursing

The Department of Nursing offers a Bachelor of Science degree with a major in nursing. This upper-division nursing major is planned specifically for associate degree graduates who wish advanced education.

Learning experiences provide opportunity for students to function independently and interdependently with other health care professional personnel in a variety of settings. These experiences encompass care of members of society with a wide range of health care needs across the life span. Through the nursing process, students assist clients to attain, regain and maintain health by means of health promotion, restoration and prevention of illness. Students in the last quarter, with faculty consultation, may elect independent study of client health problems in an area of interest. Graduates are eligible for certification as public health nurses in the State of California.

Inquire at the Nursing Department Office, Health Center, Room 112 (Telephone 887-7346) for further information about the nursing program and academic advising and counseling.

Purposes

The purposes of the program are to provide the registered nurse with:
1. Opportunity for professional and personal growth and development;
2. Preparation to function as a generalist on a professional level;
3. Insight into the changing health care needs of society and new techniques for participation in meeting them;
4. Expanded scope of knowledge for leadership in improvement and development of nursing practice; and
5. Qualification for admission to graduate study in nursing.

Departmental Admission Requirements

1. Meet requirements for admission to the college as a transfer student at the junior level.
2. Show evidence of completion of an associate degree in nursing.
3. Hold a current license as a registered nurse in the State of California.
4. Complete one lower-division college course in each of the following: anatomy-physiology, chemistry, growth and development, mathematics and microbiology.
5. Complete one year of documented work experience as a registered nurse (recommended).

Departmental Admission Procedure

Students are admitted to the nursing program in fall and winter quarters only. Students admitted to the College who have an interest in the nursing major should:
1. Submit a nursing application form to the Department of Nursing office with two letters of reference from previous employers or instructors.

2. After notification of acceptance, obtain an appointment with a nursing advisor prior to registration.

3. Arrange for nursing achievement tests prior to registration for the first clinical course. Scores will be used for counseling purposes.

4. Submit a medical report of a physical examination within six months prior to admission to the first clinical course. This is to determine student ability to engage in the activities required to meet expectations of the nursing program. Include chest x-ray or tuberculosis skin test.

**Departmental Regulations**

1. Students must maintain good academic standing and attain grades of "C" or better in all nursing and support courses in order to progress in the program. Nursing courses in which students earn less than a "C" may be repeated for credit only once, and this repetition requires both departmental consent and the appropriate College petition.

2. Students on academic probation must remove grade-point deficiencies before progressing further in the nursing program.

3. Students in the nursing program must carry malpractice insurance in order to be admitted to clinical courses.

4. Students should have access to insured transportation for their clinical experiences.

5. Clothing required by the field placement agency, appropriate for that setting, must be provided by students, with identification by school name pin (name, R.N., CSCSB).

6. Students may enroll in only one clinical course (lecture and laboratory) per quarter.

7. Students must take the lecture and corresponding laboratory concurrently (for example, Lecture A and Lab A).

8. Laboratory sections are limited to 12 students who must have consent of instructor and department.

**Requirements for the degree:**

1. A total of 198 quarter units is required for the Bachelor of Science degree in nursing. Up to 90 quarter units earned in transferable lower-division courses may be applied toward the degree (A.A. nursing program).


3. Upper-division general education requirement: two courses. To be chosen from among the designated upper-division general education lecture courses in two of three areas: Humanities (319, 330, 350, 353, 360); Natural Sciences (300, 310, 312, 320, 350, 351); Social Sciences (300, 304, 315, 321, 333, 345).

To accommodate to the needs of employed nurses, elective, support, general education and, when feasible, nursing lecture courses will be scheduled both during daytime and evening hours. The responsibility, however, is the student's
to determine realistic college unit loads in consideration of home and employment obligations.

*Health Services Credential authorizing services as a school nurse:* The program in school nursing fulfills the requirement of the credential defined by the Ryan Act. It is accredited by the Commission for Teacher Preparation and Licensing of the State of California. This interdisciplinary program involves nursing, health science and teacher education offerings. The credential, requiring 48 quarter units of credit, is awarded by the School of Education. The applicant must hold a Bachelor of Science degree in Nursing. For further information, contact the School of Education.

*Departmental Honors:* A graduating senior will be awarded departmental honors in nursing after meeting the following requirements: achieve a minimum GPA of 3.5 in all upper-division courses taken at the College or an overall GPA of at least 3.0 and a clear demonstration of ability to do independent work in nursing.

**302. TRENDS IN NURSING CARE, ROLES, EDUCATION**
Introductory course designed to assist students in developing the professional role. (5 units)

**306. CURRENT PROBLEMS IN HEALTH CARE DELIVERY AND THEIR IMPACT ON NURSING**
Impact of legal, economic and cultural forces on the nursing component of the health care delivery system. (5 units)

**314. HEALTH ASSESSMENT AND MAINTENANCE: ADULT/AGED**
Bio-psycho-social-environmental health assessment; planning health promotion and illness prevention of the adult/aged by applying the nursing process. *Prerequisites:* admission to nursing program; *Nursing 302, Biology 310* and consent of department chair prior to registration. *Prerequisite or corequisite:* Nursing 380. Corequisite: Nursing 315. (5 units)

**315. HEALTH ASSESSMENT AND MAINTENANCE LABORATORY: ADULT/AGED**
Clinical practice in skills of health assessment, planning health promotion and illness prevention of the adult/aged by applying the nursing process. *Prerequisite:* consent of department chair prior to registration. Corequisite: Nursing 314 (4 units)

**354. HEALTH CARE OF WOMEN**
Selected aspects of the health care of women over the life cycle with emphasis on a holistic philosophy. Contribution of the nurse in aiding women attain, regain and maintain a state of high level wellness. *Prerequisites:* *Nursing 314* and consent of department chair prior to registration. Corequisite: Nursing 355. (2½ units)

**355. HEALTH CARE OF WOMEN: LABORATORY**
Clinical practice in skills of assessment and management of health problems unique to women over the life cycle. Students participate in planned experiences in a variety of clinical settings. *Prerequisite:* consent of department chair prior to registration. Corequisite: Nursing 354. (2 units)

**356. HEALTH CARE OF CHILDREN**
Holistic health care from infancy through adolescence, considering home, school and other environments. Role of the nurse in aiding children to attain, regain and maintain a state of high level wellness. *Prerequisites:* *Nursing 314 and consent of department chair prior to registration.* Corequisite: Nursing 357. (2½ units)

**357. HEALTH CARE OF CHILDREN: LABORATORY**
Clinical practice in assessment and management of health problems common to infants and children. Students participate in planned experiences in a variety of clinical and school settings. *Prerequisite:* consent of department chair prior to registration. Corequisite: Nursing 356. (2 units)
358. NURSING CARE OF CHILDREN IN THE SCHOOL SETTING
Role of the nurse in the school setting. Focus is on health appraisal, intervention and teaching aimed at promoting responsibility among the students for their own health. Included is the nurse’s role as consultant to teachers and administrators regarding the health and safety aspects of the school environment. Prerequisites: Nursing 356 and consent of department chair prior to registration. Corequisite: Nursing 359. (2½ units)

359. NURSING CARE OF CHILDREN IN THE SCHOOL SETTING: LABORATORY
Clinical practice in the elementary and secondary schools in appraisal of health status, vision and hearing conservation, dental and nutritional status, prevention and control of communicable diseases. Clinical practice will also include management of common conditions and illnesses, emergency care and high-risk children. Detection and management (including prevention) of child abuse, drug abuse, teenage pregnancy and other conditions which interfere with learning will also be addressed. Corequisite: Nursing 358. (4 units)

380. PATHOPHYSIOLOGICAL CONCEPTS AS APPLIED TO NURSING PRACTICE
Pathophysiological concepts as applied to nursing practice with an emphasis on common disorders as stressors causing maladaptation. Prerequisite: Biology 310. (5 units)

410. PSYCHOSOCIAL NURSING
Mental health concepts emphasizing the nurse’s role in the prevention of mental disorders; the promotion, restoration and maintenance of mental health in individuals, families and groups in the community. Prerequisites: Nursing 306, 314 and consent of department chair prior to registration. Corequisite: Nursing 411. (5 units)

411. PSYCHOSOCIAL NURSING LABORATORY
Application of mental health concepts in the behavioral assessment of individuals and families; planning and evaluation of mental health nursing interventions in a variety of settings. Prerequisite: consent of department chair prior to registration. Corequisite: Nursing 410. (4 units)

422. INTRODUCTION TO NURSING RESEARCH
Introduction to the research process, methodology of carrying through a research project and analysis of relevant studies affecting nursing practice and the profession. Prerequisites: Mathematics 350 and Health Science 451. (5 units)

430. COMMUNITY HEALTH NURSING
Concepts related to maximizing the potential for health of individuals, families and groups within the environment in which they are functioning. Emphasis on detection and prevention of disease, promotion of health in a variety of settings, including socio-cultural influences in the application of the nursing process. Prerequisites: Nursing 354, 356, 410, 422, 472, Health Science 451 and consent of department chair prior to registration. Corequisite: Nursing 431. (5 units)

431. COMMUNITY HEALTH NURSING LABORATORY
Application of nursing concepts in providing health care and health education to assist individuals, families and groups in a variety of settings; to prevent disease, promote health and maximize their potential capabilities. Development of skills in interdisciplinary and interagency collaboration and the participation in the evaluation and improvement of the health status of the community. Prerequisites: consent of department chair prior to registration. Corequisite: Nursing 430. (4 units)

472. PRINCIPLES OF NURSING LEADERSHIP
Principles of leadership related to organization and delivery of nursing care and patient advocacy in a variety of settings. Theories and methods of organizational change and their application to nursing. Prerequisites: Nursing 302, 306, 422, Health Science 371 and consent of department chair prior to registration. Corequisite: Nursing 473. (4 units)
473. PRINCIPLES OF NURSING LEADERSHIP LABORATORY
Principles of organization, administration and leadership applied to the delivery of nursing care. Theories and practice in the implementation of change. Prerequisite: consent of department chair prior to registration. Corequisite: Nursing 472. (2 units)

595. INDEPENDENT STUDY
Experimental effort, field or library research conducted under the direction of a faculty member. A total of six units in Nursing 595 may be applied toward graduation. Prerequisites: senior standing, a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)
The courses listed below are offered in support of the certificate program in paralegal studies, Page 97. Further information about this certificate program can be obtained from the Department of Political Science.

Inquire at the Political Science Department Office, Administration Building, Room 130 (Telephone 887-7238) for further information about the paralegal studies offerings.

It is strongly advised that students take Paralegal Studies 385 in the first quarter of the program as it provides an introduction to legal language.

### 370. WILLS, ESTATES AND TRUSTS
Study of law relating to the control and disposition of property inter vivos (between living persons) and after death, wills, intestate succession (descent and distribution), future interests and trusts, estates in land, principles of estate planning and administration of an estate. (5 units)

### 371. CONTRACT LAW
Study of law relating to contract formation, formalities, performance and breach. Effect on a contractual relationship of various types of subsequent conduct by the contracting parties and remedies available for breach. Introduction to the Commercial Code of California. (5 units)

### 372. TORT LAW
Legal liability for wrongful interference with the person; tangible property, real and personal; intangible interests; and advantageous relations. (5 units)

### 373. PROPERTY LAW
Basic principles of law relating to various types of property interests: real and personal, tangible and intangible, public and private; acquisition; bailment; fixtures; deeds; escrow, recording and search of public documents and security instruments in connection with real property. (5 units)

### 376. FAMILY LAW AND COMMUNITY PROPERTY
Formation and dissolution of the family unit: custody, support, property rights and obligations. (5 units)

### 377. TRIAL PRACTICE
Studies of trials at common law and in equity, including examination, competency and privileges of witnesses, judicial notice, burden of proof and presumptions; tactics of litigation, discovery, fact investigation, jurisdiction, remedies, civil procedure and drafting of pleadings. (5 units)

### 378. CORPORATE LAW
Legal status of the corporate entity, corporate structure and distribution of powers and duties among shareholders, directors and officers. (5 units)

### 379. ENVIRONMENTAL LAW
Survey course examining the implementation, impact and effectiveness of statutes and judicial decisions addressing current environmental problems and the standing of parties to raise environmental issues. (5 units)
385. LEGAL RESEARCH AND WRITING
Methods of legal research, problem analysis, and writing techniques. Emphasis on developing ability to write concise case briefs, case syntheses and legal documents. (5 units)
Philosophy is humanity's oldest intellectual discipline. Philosophy's concerns range from questions fundamental to human understanding such as the nature of man, knowledge, truth, being, existence, right, freedom and the good life; to attempts to bring clarity, order and understanding to arguments dealing with pressing social problems such as the equitable distribution of society's goods, political violence, the right to privacy and governmental honesty.

Because at all its levels philosophy aims at the construction of sound arguments and clear concepts, it develops in the student high levels of skill in the analysis and organization of ideas. Acquisition of these basic intellectual skills is excellent preparation for further study and for entering a variety of career fields. Philosophy is a strongly recommended prelaw major and can provide solid background for careers in journalism, public service, government and politics among others.

Inquire at the Philosophy Department Office, Library-Classroom Building, Room 266C (Telephone 887-7469) for further information about the philosophy program and academic advising and counseling.

Requirements for the major: 50 units including 10 units from the history sequence (Philosophy 301, 305, 307); 5 units from a systematic field (Philosophy 312, 350, 360, 370, or 380); and either emphasis Area A (systematic philosophy) or emphasis Area B (philosophy and public affairs).

Area A: the additional course from the history sequence (see above) plus Philosophy 312, 350 and 380.

Area B: 20 units chosen from Philosophy 320, 340, 355, 362, 365, 465.

Up to 15 units in the philosophy major may be lower division.

In order to meet entrance standards for most graduate departments of philosophy and to qualify for strong recommendations from this department, students planning to apply for graduate programs should also complete 10 units of additional upper-division elective philosophy course work, plus a minimum of 20 units, or equivalent proficiency, in one foreign language (preferably French, German, Latin or Greek), with attainment of demonstrable reading skill.

Requirements for the minor: 30 units of philosophy course work, no more than 10 of which may be lower division; the 30 units must include at least 5 units from the sequence of readings in the history of philosophy: 301, 305; and 5 units from a systematic field chosen from 312, 350, 360, 370.

Departmental Honors: The departmental honors program is individually designed to suit the interests of each student. Each student, with the advice of a faculty advisor, prepares a book list which forms the basis of an honors examination. Successful completion of the examination results in the awarding of departmental honors. Application for the honors program must be made by the beginning of the senior year.
Certificate program: The Department of Philosophy offers an interdisciplinary certificate program in Religious Studies. Details concerning this program are found on Page 97.

105. ARGUMENT AND EVIDENCE
Analysis of various kinds of reasoning employed in everyday life and in more specialized contexts, to develop each student's skill in understanding and using carefully constructed arguments. Illustrations will include materials drawn from contemporary issues. (5 units)

190. STUDIES IN PHILOSOPHY
An introduction to philosophical thinking by means of reading, discussing and writing about selected philosophical works. Students are encouraged to develop their own philosophical views in a critical exchange with the views of the philosophers studied. (5 units)

301. GREEK AND ROMAN PHILOSOPHY
Major philosophic movements from the Pre-Socratics Plato to the Stoics, Epicureans, Sceptics and Mystics. (5 units)

305. MODERN PHILOSOPHY, SIXTEENTH-NINETEENTH CENTURIES
Roots of modern philosophy and science from Galileo and Descartes to Hegel and Marx. (5 units)

307. CONTEMPORARY PHILOSOPHY
Recent directions in philosophy such as existentialism, phenomenology, positivism, pragmatism, ordinary language, structuralism, analysis and the like. (5 units)

312. PHILOSOPHY OF LOGIC
Inquiry into diverse systems and conceptions of logic, ancient to modern. (5 units)

314. SYMBOLIC LOGIC
Self-paced course in mathematical logic, involving extensive work with a computer program. Prerequisite: consent of instructor. (5 units)

316. DISCOVERY AND METHOD
Studies in the philosophy of the natural and social sciences treating questions such as the nature of creativity, proof, explanation, experiment and scientific revolutions. (5 units)

320. PHILOSOPHY OF EDUCATION
An inquiry into some characteristic problems, through consideration of works by authors such as Plato, Rousseau, Newman and Dewey. (5 units)

340. PHILOSOPHY OF MAN
Inquiry into traditional and contemporary views of the nature of man and their implications for human life. (5 units)

350. ETHICS
Analysis of problems intrinsic to human action, through the study of alternative formulations offered by some great philosophers, present and past. (5 units)

355. CONTEMPORARY ETHICAL ISSUES
Consideration of moral problems intensified by the rapid pace of social, economic and technological changes: genetic engineering, euthanasia, “the new sexual ethics,” abortion, the right to privacy. (5 units)

357. PHILOSOPHY AND SEXUAL POLITICS
Examination of whether there are ethically significant differences in male and female human nature and, if so, whether these justify differential treatment and social roles. (5 units)
360. POLITICAL PHILOSOPHY
Some important ancient, medieval and modern works are examined systematically to illuminate
issues concerning community action. (5 units)

362. PHILOSOPHY AND DEMOCRACY
Philosophic problems of democracy from Socrates' debates with the Sophists to contemporary
discussions. Emphasis on the ethical values and arguments involved in topics such as participation,
citizenship and responsible decision making. (5 units)

365. POWER, AUTHORITY, FORCE AND VIOLENCE
Inquiry into the relations and conflicts between might and right, using philosophic and historical
documents. Focus is on the role of ethical justifications and reasoned arguments in action. (5 units)

370. PHILOSOPHY OF ART AND CRITICISM: AESTHETICS
Principles and problems of art are analyzed with the help of important writings that raise questions
of general theory and critical practice. (5 units)

380. BEING, EXISTENCE AND KNOWING
Inquiry into first principles underlying reflection on the nature of the universe, man and his attempts
to achieve knowledge. (5 units)

450. MAN'S SEARCH FOR GOD OR GODS
A probing of some significant ideas about God and the philosophy of religion. (5 units)

452. CLASSICS OF EASTERN THOUGHT
Study of selected Eastern masterpieces such as the Bhagavad Gita, The Tao of Lao Tzu and the
Dhammapada. (5 units)

465. PHILOSOPHY OF LAW
Intensive study of the concept of law and its relation to power, command, reason, nature, justice,
prediction. (5 units)

490. SPECIAL TOPICS IN PHILOSOPHY
Study of a specially selected idea, problem or theory in philosophy. Course may be repeated for
credit when topic is changed. (5 units)
PHYSICAL EDUCATION
AND RECREATION

The Department of Physical Education and Recreation provides: (1) activity courses for undergraduate degree requirements; (2) professional preparation courses for a minor in physical education; (3) professional preparation courses for a minor in recreation; and (4) intramural recreation activities (no credit) for students, faculty, and staff (for additional information see Page 28).

Inquire at the Physical Education and Recreation Department Office, Physical Education Building, Room 120 (Telephone 887-7561) for further information about the physical education program and academic advising and counseling.

Activity Courses (Physical Education 101–149)
The activity course program offers a wide variety of classes which provides students the opportunity to participate in physical activity on a regular basis; develop, improve and maintain a degree of physical fitness; learn and practice lifetime sports skills; and acquire the knowledge that physical exercise is essential for healthful adult living in current society. Classes are coeducational except where the type of activity deems it inappropriate. Not all courses listed are offered each academic year.

Requirements for graduation: Students under 25 years of age are required to complete three activity courses (6 quarter units of credit) in physical education. It is recommended that these courses be taken during the first year on campus. Students over 25 years of age may substitute six credit hours of their choice. Students who need to meet a requirement in health in preparation for a teaching credential should consult the School of Education.

All physical education activity courses (courses numbered 101 through 149) are graded credit/no credit. The total number of physical education activity units which can be applied to the baccalaureate degree is 12.

Professional Courses (Physical Education 203–454)
The professional preparation courses are designed for students interested in pursuing a minor in physical education or a minor in recreation.

Requirements for a minor in physical education: Physical Education 200, 210AB, 254, 268, 360, 454; Natural Sciences 499; and Health Science 120. Physical Education Activity 101, 121, 137 and 141.

Requirements for a minor in recreation: Physical Education 200, 203, 254, 267, 268, 271, 361, 365, 454 plus Physical Education Activity 101, 121 and 137.

Plans are underway to offer a Bachelor of Science Degree in Physical Education. For further details contact the Physical Education and Recreation Department office.

The following activities include instruction at all skill levels unless specified in the class schedule as limited to beginning, intermediate or advanced level instruction.
101. INDIVIDUAL AND DUAL ACTIVITIES (2 units)
Archery
Badminton
Bicycling (a)
Bowling (a)
Fishing (a)
Golf (a)
Gymnastics
Handball
Horseshoes

114. PHYSICAL FITNESS AND CONDITIONING ACTIVITIES (2 units)
Body conditioning
Circuit training
Jogging

117. COMBATIVE ACTIVITIES (2 units)
Boxing
Fencing
Judo

121. TEAM ACTIVITIES (2 units)
Basketball
Field hockey
Flag football
Floor hockey
Hockey

137. AQUATIC ACTIVITIES (2 units)
Advanced life saving (b)
Aquatic games and activities
Basic rescue and water safety (b)
Boating and canoeing (a,b)
Innertube water polo

141. DANCE ACTIVITIES (2 units)
Aerobic
Ballet
Belly
Disco
Folk

146. OUTING SKILLS ACTIVITIES (2 units)
Backpacking (a)
Camping (a)
Mountaineering (a)

149. INDEPENDENT ACTIVITY PROJECT
Activity project designed to satisfy individual needs of students who can not meet requirements of a regular activity class due to a medical, physical or other conflict; under the supervision of a faculty member. Prerequisite: consent of department chair. (2 units)

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an. Field trips required
b. Red Cross certification available
c. NAUI certification available
d. Prerequisite: skin diving or consent of instructor
e. Doctor’s physical examination required
200. FIRST AID
Prevention of injuries and the emergency care and treatment of illnesses or injuries. To meet the requirements for standard Red Cross certification. (2 units)

203. INTRODUCTION TO RECREATION
Orientation to recreation as a profession. Meaning, content, history, philosophy and scope of the field of recreation. (5 units)

210. TOPICS IN THE FOUNDATIONS OF PHYSICAL EDUCATION
Courses designed to survey the fundamental principles, objectives, history and philosophies in the discipline of physical education.
A. Introduction to Physical Education (2½ units)
B. Introduction to Adapted Physical Education (2½ units)
C. History of Physical Education (2½ units)
D. Philosophy of Physical Education (2½ units)

254. FIELD WORK IN PHYSICAL EDUCATION OR RECREATION I
A supervised experience in the Department of Physical Education and Recreation under the direction of a faculty member. Prerequisite: Physical Education 260 A, B, C, D or 264 A, B or C. (2 units)

260. ANALYSIS AND METHODS OF INDIVIDUAL/DUAL ACTIVITIES
Analysis and methods in teaching the techniques and skills of individual/dual activity. Prerequisites: Physical Education 210A and possession of fundamental skills of each activity required for enrollment in each course. (2 units each)
A. Racquetball and archery
B. Golf and tennis
C. Swimming and dance
D. Gymnastics and track and field
E. Badminton and combative

264. ANALYSIS AND METHODS OF TEAM ACTIVITIES
Analysis and methods in teaching the techniques and skills of team activity. Prerequisites: Physical Education 210A and possession of fundamental skills of each activity required for enrollment in each course. (2 units each)
A. Volleyball and football (flag)
B. Basketball and field hockey
C. Soccer and softball

267. SPORTS OFFICIATING
Rules interpretations, techniques and procedures utilized by sports officials, culminating in practical experience. Prerequisite: consent of instructor. (2 units each)
A. Baseball/softball
B. Basketball
C. Football
D. Gymnastics
E. Soccer
F. Swimming and diving
G. Track and field
H. Volleyball
I. Water polo
J. Wrestling

268. SPORTS SUPERVISION
Organization and supervision of recreational sports for school or community participation. (2 units)

271. RECREATION LEADERSHIP
Organization, supervision and administration of recreation programs and practical experience in recreation situations which provide the opportunity to develop leadership skills. (5 units)

280. PREVENTION AND TREATMENT OF ATHLETIC INJURIES
Theories and methods in the prevention and treatment of athletic injuries, plus training in cardiopulmonary resuscitation (CPR) which may lead to certification from the American Heart Association. Prerequisite: Biology 222. (5 units)
320. MOTOR LEARNING
Scientific analysis of perceptual motor behavior; learning, memory, transfer theories, motor control and motor performance in physical activity. (5 units)

321. SPORT AND SOCIETY
An examination of sociocultural aspects of sport with an emphasis on the American sport structure. (2 1/2 units)

322. PSYCHOLOGICAL ASPECTS OF SPORT
The psychological realm of sport and physical activity including the nature, significance and development of sport psychology. (2 1/2 units)

330. PHYSICAL EDUCATION FOR THE EXCEPTIONAL INDIVIDUAL
Investigation and analysis of disabilities encountered in the environment of physical education. Prerequisites: Physical Education 210B and 320, or consent of department. (5 units)

331. TOPICS IN ADAPTED PHYSICAL EDUCATION
Materials, techniques of assessment, methods of instruction and activities utilized in physical education for individuals with disabilities. Prerequisite: Physical Education 330.
A. Adapted aquatics [American Red Cross certification] (2 1/2 units)
B. Physically handicapped (2 1/2 units)
C. Learning handicapped (2 1/2 units)
D. Communicatively handicapped (2 1/2 units)
E. Severely handicapped (2 1/2 units)

360. ELEMENTARY SCHOOL PHYSICAL EDUCATION
Development of a physical education program for the elementary school setting including selection of activities for the needs of the developing child. (5 units)

361. RECREATION PROGRAMMING
Materials and methods used in planning and conducting programs in recreation, such as social recreation, dramatics, art, sports. Prerequisite: Physical Education 203 or 271. (5 units)

362. WATER SAFETY INSTRUCTION
Materials and methods in organizing school, community and camp aquatic programs. Supervised practice in teaching aquatics. Meets standards for Red Cross certification for teaching all levels of swimming, life saving and small craft safety. Prerequisite: current advanced life-saving certificate. (2 1/2 units)

365. OUTDOOR EDUCATION AND CAMP LEADERSHIP
Knowledge, concepts and techniques for the administration and organization of camps and for working with people in the out-of-doors. Includes a supervised leadership experience and field trips to observe camp facilities, programs and resources. (5 units)

370. MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION
Selection, application and interpretation of tests utilized in physical education and recreation. Prerequisites: Physical Education 210A and 210B. (5 units)

454. FIELD WORK IN PHYSICAL EDUCATION OR RECREATION II
A supervised leadership experience in a physical education, recreational or intramural setting. Prerequisites: Physical Education 254 and 470. (3 units)

470. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS
Organizational and administrative structures, problems, issues and practices relevant to secondary and collegiate physical education and athletic programs. Prerequisites: Physical Education 260 A, B, C, D or E and 264 A, B or C. (5 units)
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480. KINESIOLOGY
Analysis of human movement as based on anatomical, neuromuscular and mechanical principles. Prerequisite: Biology 222. (5 units)

481. EXERCISE PHYSIOLOGY
Effects of physical activity on the physiological systems of the human body. Prerequisite: Biology 222. (5 units)

495. SEMINAR IN PHYSICAL EDUCATION
Selected topics in physical education and recreation. Prerequisite: senior standing or consent of department. (2½ units)

595. INDEPENDENT STUDY
Experimental effort, field or library research conducted under the direction of a faculty member. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 5 units)
Traditionally physics graduates either have gone on to graduate work in physics or have found employment in industrial or governmental laboratories. Other opportunities which have recently become interesting for physics graduates include atmospheric physics (including air pollution studies), geophysics, radiation safety, oceanography, astrophysics, technical administration, biophysics, computer science and medical instrumentation development.

The program for a bachelor of arts degree in physics provides basic knowledge in the main subject areas of physics as well as an opportunity for students to elect a considerable number of courses in other disciplines. The bachelor of science program includes additional course work in physics and related fields which further prepares a student for employment or graduate work. A candidate for the B.S. degree may also take several courses selected from any of the offerings of the college.

Inquire at the Physics Department Office, Biological Sciences Building, Room 107 (Telephone 887-7368 or 887-7341) for further information about the physics program and academic advising and counseling.

Requirements for the bachelor of arts degree: Physics 221-222-223, 225-226, and 25 additional upper-division units in physics (2½ of these units may be met by taking Computer Science 135, 140, or 310); Chemistry 215 or equivalent; and completion of a lower-division calculus sequence (Mathematics 200-201-202-203 or equivalent).

Requirements for the bachelor of science degree: Physics 221-222-223, 225-226, and 35 units selected from 311, 312, 313, 405, 411, 413, 430 and 440; Chemistry 215 or equivalent; Computer Science 135 or 140, and 310; completion of a lower-division calculus sequence (Mathematics 200-201-202-203 or equivalent); and 20 additional units from the offerings of the School of Natural Sciences, selected with the approval of the Physics Department.

Completion of the calculus sequence is prerequisite for most upper-division courses leading to a major in physics. A comprehensive examination covering the major field of study is required in the senior year.

Requirements for a minor in physics: Physics 221, 225, 222, 226 and 223; 10 units of upper-division physics; and 15 units of a lower-division calculus sequence (Mathematics 200-201, and 202 or 203).

100. PHYSICS IN THE MODERN WORLD
Examination of physics and its contemporary use, including topics of: optics, heat, electricity, sound, motion and radioactivity. This course is intended for students with little background in science and mathematics. Lecture and two hours of laboratory. (5 units)
121. BASIC CONCEPTS OF PHYSICS I
First course of a two-course sequence surveying the basic concepts of physics, primarily for students entering fields relating to the biological sciences. Topics include waves, optics and mechanics. Lecture only. Prerequisite: two years of high school algebra or equivalent. Corequisite: Physics 225. (4 units)

122. BASIC CONCEPTS OF PHYSICS II
Continuation of Physics 121. Topics include electricity, electric circuits, magnetism, fluids and modern physics. Lecture only. Prerequisite: Physics 121 with a grade of C or better. Corequisite: Physics 226. (4 units)

221. CLASSICAL MECHANICS
First course of a three-course sequence surveying physics. For students with a strong background in mathematics and the sciences. Lecture only. Prerequisite or corequisite: Mathematics 200. Corequisite: Physics 225. (4 units)

222. STATIC AND DYNAMIC ELECTRICITY
Lecture only. Prerequisite: Physics 221 with a grade of C or better. Prerequisite or corequisite: Mathematics 201. Corequisite: Physics 226. (4 units)

223. WAVES AND MODERN PHYSICS
Lecture and three hours of laboratory. Prerequisite: Physics 222 with a grade of C or better. (5 units)

225. PHYSICS LABORATORY I
Laboratory accompanying Physics 121 or 221. (2 units)

226. PHYSICS LABORATORY II
Laboratory accompanying Physics 122 or 222. (2 units)

311. CIRCUIT THEORY AND VECTOR ANALYSIS
Vector analysis and electrical circuit theory are presented and applied to a wide range of problems in physics. Lecture and three hours of laboratory. Prerequisites: Physics 222 and 226 with a grade of C or better and Mathematics 203. (5 units)

312. RELATIVITY
Lecture only. Prerequisite: Physics 222 and 226. (5 units)

313. ELECTRODYNAMICS
Derivation and applications of Maxwell's equations. Lecture only. Prerequisite: Physics 311. (5 units)

405. INTERMEDIATE CLASSICAL MECHANICS
A continuing and more thorough study of the material introduced in Physics 221 and 225; statics and dynamics including rotational motion of rigid bodies and an introduction to advanced formulations of mechanics. Lecture only. Prerequisite: Physics 222 and 226 and Mathematics 203. (5 units)

411. MODERN PHYSICS
Topics of modern physics with an introduction to the concepts of quantum mechanics. Lecture only. Prerequisites: Physics 222 and 226, 312 and Mathematics 203, each with a grade of C or better. (5 units)

413. THERMAL AND STATISTICAL PHYSICS
Statistical behavior of systems of large numbers of particles, with applications. Thermostatics is shown to be derivable from first principles by application of statistical methods. Lecture only. Prerequisites: Physics 223 and Mathematics 202. (5 units)

430. ADVANCED PHYSICS LABORATORY
Selected advanced experiments appropriate to a student's previous preparation. May be repeated for credit. Prerequisite: Physics 222 and 226. (2½ units)
440. SEMINAR: TOPICS IN CONTEMPORARY PHYSICS
Papers on various topics are prepared by the students and presented during class sessions. May be repeated once for credit. Prerequisite: consent of instructor. (2 1/2 units)

595. INDEPENDENT STUDY
Research in physics conducted under the direction of a faculty member. A total of six units in Physics 595 may be applied toward graduation. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)
The major in political science is designed for students who desire a liberal arts program with an emphasis on politics, government and public policy; plan a career in government service or public administration; seek training for positions in foreign service agencies of the United States government, international organizations or corporations; intend to study law; wish to prepare for teaching in the public schools; or intend to work for advanced degrees in political science in preparation for college or university teaching or for government service.

The department offers courses in the following fields: American government and politics, comparative politics, political behavior, international relations, political theory, and public policy and administration. Using combinations of these fields, students can tailor-make their study programs by creating tracks such as public policy, legal training or international relations.

In several political science courses students are afforded the opportunity to assume the roles of politicians, bureaucrats and judges in computer-simulated international conflict, in legislative and administrative hearings and in moot court proceedings. Also, they may work as interns in city and county government or in the offices of lawyers and judges, or they may complete independent study projects approved by the department.

Inquire at the Political Science Department Office, Administration Building, Room 130 (Telephone 887-7238) for further information about the political science program and academic advising and counseling.

Requirements for the major: a minimum of 50 quarter units in political science including Political Science 200, 203 and 40 upper-division units. Five units from each of the following five fields must be included in these 40 units: American government and politics (320, 326, 330, 410, 411, 428, and 431); comparative politics (300, 304, and 306); international relations (325, 400, 484, 500, 510, and 590); political behavior (440, 446, and 450); and political theory (310, 311, 313, and 314). The 15 remaining units may be chosen from any of the political science courses. Political Science 575 and 595 will count as electives only after approval by the department chair. With approval of the department chair, up to 10 units in related fields may be counted toward the upper-division course requirement in political science.

Requirements for a minor in political science: 30 units including Political Science 200 and 203, and at least 20 units of upper-division political science course work chosen in consultation with an advisor.

Requirements for a minor in pre-law: Political Science 328, 410 and 411 plus any two of the following: Administration 330, History 540, Philosophy 465, Political Science 535 and Sociology 359.

Departmental Honors: Students majoring in political science are eligible to receive honors in political science at graduation when they meet the following...
requirements: 3.5 grade-point average in all political science courses attempted, at least half of all work in political science completed at this college, and recommendation for departmental honors by political science faculty.

Certificate Programs: The Department of Political Science offers certificate programs in international relations and paralegal studies. Details concerning these certificate programs may be found on Pages 95 and 97.

100. STUDENT GOVERNMENT
An applied exploration of leadership styles, organizational decision making, policies, procedures and organizational structures that affect student governance. May be repeated for credit once with consent of instructor. Prerequisite: consent of instructor. Corequisite: involvement in some aspect of Associated Student government. (2 units)

152. CALIFORNIA STATE AND LOCAL GOVERNMENT
California state and local government and politics. This course meets the state code requirement in the principles of state and local government. (2½ units)

200. INTRODUCTION TO POLITICAL SCIENCE
Introduction to the scope of the discipline, to its basic philosophical concepts, methods, and to political action in various cultural contexts. (5 units)

203. AMERICAN GOVERNMENT
Political structure and processes of the American governmental system. This course meets the state code requirement in the Constitution of the United States and the state code requirement in the principles of state and local government. (5 units)

300. WESTERN POLITICAL SYSTEMS
Major Western political systems. (5 units)

304. COMMUNIST POLITICAL SYSTEMS
Examination of the relationships among communist political systems. (5 units)

306. DEVELOPING POLITICAL SYSTEMS
Political systems, governmental structures, political orientation and foreign policies of developing nations. (5 units)

310. CLASSICAL POLITICAL THOUGHT
Classical political thought through a consideration of representative political thinkers such as Plato, Aristotle, Thucydides, Cicero, Lucretius. (5 units)

311. FOUNDATIONS OF MODERN POLITICAL THOUGHT
Major political ideas of the early modern period ranging from Machiavelli through Hobbes, Locke, Rousseau and Burke. (5 units)

313. CONTEMPORARY POLITICAL THOUGHT
Contemporary political ideas and thinkers ranging from Hegel and Marx through Lenin, Gandhi and Mao. (5 units)

314. AMERICAN POLITICAL THOUGHT
American political ideas from the colonial period to the present. This course meets the state code requirement in American history, institutions and ideals. (5 units)

320. THE LEGISLATIVE PROCESS
Law-making processes in the United States and/or other selected political systems. (5 units)
322. POLITICAL DEBATE
Study of a political issue, culminating in a formal debate open to the public. (May be taken for a total of 7\(\frac{1}{2}\) units of credit as topics change.) Prerequisite: consent of instructor. (2\(\frac{1}{2}\) units)

325. AMERICAN FOREIGN POLICY
Political analysis of American foreign policy with emphasis on foreign policy making in the nuclear age. (5 units)

326. POLITICAL PARTIES AND INTEREST GROUPS
Organization, objectives, and activities of political parties and political interest groups and their functions in modern political systems. (5 units)

328. JUDICIAL PROCESS
Process of judicial decision-making with emphasis on factors influencing that process and concepts of judicial roles. (5 units)

330. STATE AND LOCAL POLITICS
Comparison of state and local political systems within the American Federal System. This course meets the state code requirement in California state and local government. (5 units)

340. SEX AND POLITICS
Emphasis will be on sex roles in traditional and modern political systems, sex stereotypes in politics; effects of changing technology on conventional male and female roles; dynamics of change affecting the woman's place in the political world. (5 units)

342. THE POLITICS OF ENVIRONMENT
Environmental problems in their political context, including air, water, thermal and noise pollution, solid waste, population growth, resource management, and the political costs and benefits of environmental protection. (5 units)

350. POLITICS OF BLACK AMERICA
Black liberation ideologies and attempts at their implementation within the American political system. (5 units)

351. THE CHICANO AND POLITICS
Political factors affecting the contemporary Mexican-American community; involvement, organization and role of the individual in the political process. (5 units)

380. SURVEY OF PUBLIC ADMINISTRATION
An introduction to the study of public administration, including a survey of the major functions, structures, behaviors, processes and problems. (Also offered as Administration 380. Students may not receive credit for both.) (5 units)

400. INTERNATIONAL POLITICS
Selected theories and evolving patterns of international politics as developed within the nation-state system. (5 units)

410. AMERICAN CONSTITUTIONAL LAW
Principles of the American Constitution as announced by the Supreme Court in selected cases. Judicial review, separation of powers, presidential power, federalism and commerce are included. This course meets the state code requirement in the Constitution of the United States. (5 units)

411. THE BILL OF RIGHTS
Limitation on federal and state power arising out of the provisions of the first eight and the 14th Amendments to the Constitution. Modern developments are stressed. This course meets the state code requirement in the Constitution of the United States. (5 units)
428. FORMULATION OF PUBLIC POLICY
Basic approaches to public policy analysis, emphasizing interaction between substance and process in policy development. (5 units)

431. THE AMERICAN PRESIDENCY
Office and institution of the presidency of the United States. (5 units)

440. VOTING BEHAVIOR
Factors related to voting behavior and other forms of political involvement, including analysis and interpretation of electoral decisions. (5 units)

446. POLITICAL BEHAVIOR
Research methods and approaches to research problems used in the analysis of political behavior. Includes: logic of inquiry, collection of data, analysis of data, and the interaction between theory and method. (5 units)

450. POLITICAL SOCIALIZATION
Application of political theory and research to the political education and socialization of children. Major attention devoted to the problems of children's political orientations, their sources and formation. (5 units)

484. INTERNATIONAL SECURITY AND DEFENSE STRATEGY
Relation of military strategy and changing arms technology to foreign policy. Consideration of military-diplomatic problems and international relations arising from advanced weapons technology in the nuclear age. (5 units)

500. INTERNATIONAL LAW
Historical basis and present trends in the development of international law. (5 units)

510. INTERNATIONAL ORGANIZATION
History, structure and dynamics of the United Nations and other multi-national organizations. (5 units)

530. STUDIES IN POLITICAL THEORY
Concentrated study of one political theorist or one subject in political theory. May be repeated for credit as topics change. (5 units)

535. SEMINAR IN CONSTITUTIONAL LAW
Intensive study in one or more aspects of constitutional law. Prerequisite: one of the following: Political Science 328, 410, 411, History 540 or consent of instructor. (5 units)

560. INTERGOVERNMENTAL RELATIONS
Administrative and political dynamics of relationships among national, state and local units of government. Prerequisite: senior standing. (5 units)

570. POLITICS OF THE UNITED STATES ECONOMY
Interaction of political and economic power illustrated through a review of major contemporary issues and activities in national affairs. (5 units)

575. INTERNSHIP IN POLITICAL SCIENCE
Supervised work and study in public and private organizations. May be repeated once for credit. Graded Credit/No Credit. Prerequisites: consent of instructor and department. (5 units)

580. SEMINAR IN PUBLIC POLICY
Political aspects of administrative systems with emphasis on public policy process in advanced and less developed countries. (5 units)
590. SEMINAR IN INTERNATIONAL RELATIONS
Intensive study of some phase of foreign policy-making or international relations to be developed by instructor with class. May be repeated for credit, with consent of instructor. (5 units)

592. SEMINAR IN GOVERNMENT
An intensive study of some phase of government to be developed by instructor with class. May be repeated for credit, with the consent of instructor. (5 units)

595. INDEPENDENT STUDY
Special topics involving library and/or field research. A total of 10 units in Political Science 595 may be applied toward graduation. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)
The general objectives of the psychology program are to present the scientific and professional aspects of psychology to the undergraduate majoring in this field and to provide service courses as electives to the entire student population. The department also offers course work leading to the Master of Arts or the Master of Science in Psychology. Students intending to enroll in these programs or another graduate school will find that the undergraduate program provides an excellent base for entry into graduate training. Other majors may plan a paraprofessional career in counseling or related fields where graduate training may not be necessary.

Courses offered by the department range from the basic scientific courses such as experimental psychology, learning and perception to such applied courses as counseling and behavior modification. Laboratory and training facilities complement a wide variety of courses.

Inquire at the Psychology Department Office, Physical Sciences Building, Room 219 (Telephone 887-7226) for further information about the psychology program and academic advising and counseling.

Requirements for the major: Psychology 100, 311; one course chosen from 431, 433, 434, 435, 436; either Psychology 210, Social Sciences 215, or Mathematics 150; and four courses as follows:

(a) Fields of Psychology (choose two): Psychology 201, 382, 385, 390;
(b) Basic Processes (choose one): Psychology 360, 362, 363, 364;
(c) Applications (choose one): Psychology 315, 351, 377, 387, 575.

An additional 15 units in upper-division psychology electives are required. (Psychology 201 may be used to satisfy five of these additional 15 units but does not satisfy the College’s upper-division unit requirement.)

Students intending to apply to doctoral programs in psychology are encouraged to take Psychology 498 and 595. Students interested in other educational and career goals have the opportunity to either diversify or concentrate their studies according to individualized plans developed in consultation with a departmental advisor.

Requirements for the minor in psychology: Psychology 100, plus one selection from each of three core requirements:

(a) Fields of Psychology: Psychology 201, 382, 385, 390;
(b) Basic Processes: Psychology 360, 362, 363, 364;
(c) Applications: Psychology 315, 351, 377, 387, 575.

An additional 10 upper-division psychology units are required. (Psychology 201 may be used to satisfy five of these additional 10 units but does not satisfy the College’s upper-division unit requirement.)

Departmental Honors. Departmental honors will be awarded upon graduation
to students majoring in psychology who have earned a 3.8 or higher grade-point average in all psychology course work. Psychology majors who earn at least a 3.5 grade-point average in upper-division psychology course work may earn consideration for departmental graduation honors by fulfilling one of the following requirements: (1) author, or contribute significantly to the authorship of, an article accepted for publication in a major psychological journal, or (2) score at or above the 90th percentile on the advanced psychology area test of the Graduate Record Examination. Students must initiate the application for honors.

Master's Degrees: Applicants interested in the M.A. or M.S. programs in psychology should write to the department for current program description.

100. INTRODUCTION TO PSYCHOLOGY
A survey of the field of modern psychology. (5 units)

201. DEVELOPMENTAL PSYCHOLOGY
Introduction to the psychological development of the person. Prerequisite: Psychology 100. (5 units)

210. PSYCHOLOGICAL STATISTICS
Introduction to statistical reasoning and application of basic statistical procedures in psychology. Includes both descriptive and inferential statistics with emphasis on parametric techniques. (5 units)

300. METHODS OF PSYCHOLOGICAL INQUIRY
Introduction to those aspects of philosophy of science and methods of inquiry (introspection, naturalistic observation, case studies, laboratory experiments) as applied to procedures for obtaining and evaluating data in psychology. Prerequisite: Psychology 100. (5 units)

311. INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY
Design and execution of psychological research. Lecture and laboratory. Prerequisites: Psychology 100; and one of the following: Psychology 210, Mathematics 150 or Social Sciences 215. (6 units)

315. HELPING PROCESSES
Introduction to the nature of the helping process with emphasis on strategies of behavior change, interpersonal communication and basic helping skills. Lecture and laboratory. Prerequisite: Psychology 100. (5 units)

325. PSYCHOLOGY OF INFANCY
Prenatal, neonatal and infant development. Prerequisites: Psychology 100 and 201. (5 units)

329. PSYCHOLOGY OF ADULTHOOD AND AGING
Psychological processes of development during the adult years. Prerequisites: Psychology 100 and 201, or consent of instructor. (5 units)

331. THE PSYCHOLOGY OF WOMEN
A critical study of theory and data on the psychological development of females; their attitudes, behaviors, psychopathologies, abilities and self-images. Prerequisite: Psychology 100. (5 units)

332. BIOFEEDBACK
A survey of the biofeedback literature with emphasis on research findings, clinical applications and theory underlying voluntary control of brainwaves, muscle activity, heart rate and other bodily responses. Prerequisite: Psychology 100 or consent of instructor. (5 units)

333. DRUGS AND BEHAVIOR
Analysis of drugs from psychological, behavioral and physiological viewpoints. Topics include drug classification, altered states of consciousness, addiction, chemical nature and treatment of mental illness. Prerequisite: Psychology 100 or consent of instructor. (5 units)
337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN
Cognitive and affective development of the individual Black American. Includes survey of research which relates the total psychological functioning of the Black person to culturally distinct developmental patterns. (5 units)

347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO
Diverse psychological forces that affect the development of the individual Chicano. Includes survey of research which identifies specific aspects of psychological functioning, especially as psychological development relates to cultural differences. (5 units)

351. BEHAVIOR MODIFICATION: PRINCIPLES AND APPLICATIONS
Analysis of the theory, techniques and ethics of behavior modification. Prerequisite: Psychology 100 or consent of instructor. (5 units)

355. INDUSTRIAL PSYCHOLOGY
Practices of modern industrial and personnel psychology. Includes selection, placement, training, motivation, job analysis, evaluation and human factors. Prerequisite: Psychology 100 or consent of instructor. (5 units)

358. COGNITIVE DEVELOPMENT
Survey of the major theories, issues and research in the development of perceptual and cognitive capacities from early childhood to adolescence. Prerequisites: Psychology 100 and 201. (5 units)

360. COGNITIVE PSYCHOLOGY
Research and theories concerning human information processing; topics include sensory processes, attention, memory, language and other higher mental processes. Prerequisite: Psychology 100. (5 units)

362. LEARNING AND MOTIVATION
Survey of research and major theories in animal and human learning and motivation. Applications of learning and motivational principles. Prerequisite: Psychology 100. (5 units)

363. BIOLOGICAL PSYCHOLOGY
Overview of the biological basis of behavior with emphasis on the relationship between brain function and thought, emotion, perception, language, learning, memory and motivation. Prerequisite: Psychology 100. (5 units)

364. PERCEPTION
Selected topics in the field of perceptual processes. Includes review of contemporary theories and research. Class demonstrations and mini-projects. Prerequisite: Psychology 100 or consent of instructor. (5 units)

370. TOPICS IN PSYCHOLOGY
Selected psychology topics with specific focus within relatively narrow content areas. May be repeated for credit as subject matter changes. Prerequisite: Psychology 100. (2½ units)

375. SEMINAR IN PSYCHOLOGY
Selected topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as subject matter changes. Prerequisite: Psychology 100. (5 units)

377. TESTS AND MEASUREMENTS
Administration of psychological tests and scales; interpretation and use of the data which they yield. Prerequisites: Psychology 100 and one of the following: Psychology 210, Mathematics 150 or Social Sciences 215. (5 units)

382. PSYCHOLOGY OF SOCIAL BEHAVIOR
Major concepts, issues and psychological research regarding social influence on individual behavior. Prerequisite: Psychology 100. (5 units)
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384. PERSONALITY AND SOCIAL DEVELOPMENT
Development of personality, emotions and social behavior. Prerequisites: Psychology 100 and 201 or equivalents. (5 units)

385. PERSONALITY
Survey of the major theories of personality. Prerequisite: Psychology 100 or consent of instructor. (5 units)

387. COMMUNITY PSYCHOLOGY
Comprehensive study of the discipline of community psychology which emphasizes the relationship of community resources to individual mental health needs. Prerequisite: Psychology 100. (5 units)

389. SPECIAL COMPREHENSIVE EXAMINATION IN PSYCHOLOGY
Independent study, without required classroom meetings, of the subject matter of Psychology 100 and 300. Prerequisite: consent of instructor. Units received for previously taken Introductory Psychology will be discounted for students enrolling in Psychology 389. Refer to Page 56 for comprehensive examination limitations. (10 units)

390. ABNORMAL PSYCHOLOGY
An introduction to psychopathology, emphasizing the major interpretations and treatments of emotional and behavioral disorders. Prerequisite: Psychology 100. (5 units)

391. PSYCHOPATHOLOGY OF CHILDHOOD
Psychological and emotional disorders of children with special emphasis on diagnostic and clinical treatment. Prerequisites: Psychology 100 and 201. (5 units)

395. PSYCHOLOGY OF CONSCIOUSNESS
Human consciousness from the perspectives of the experiential, behavioral and physiological psychology literatures. Includes survey of research and theory on topics such as waking consciousness, dreams, meditation and altered states of consciousness. Prerequisite: Psychology 100. (5 units)

431. EXPERIMENTAL PSYCHOLOGY: DEVELOPMENTAL
Selected research areas in the field of developmental psychology. Includes review of current literature and experimental techniques in developmental research. Lecture and laboratory. Prerequisites: Psychology 201; Psychology 311 or consent of instructor. (6 units)

433. EXPERIMENTAL PSYCHOLOGY: PHYSIOLOGICAL
Introduction to the neural and endocrine processes underlying brain function and behavior. Lecture and laboratory. Prerequisites: Psychology 311; Psychology 363 or consent of instructor. (6 units)

434. EXPERIMENTAL PSYCHOLOGY: SOCIAL
Methods, theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Lecture and laboratory. Prerequisites: Psychology 382; Psychology 311 or Sociology 305. (6 units)

435. EXPERIMENTAL PSYCHOLOGY: PERSONALITY
Empirical study of personality theories and the relationship of personality to behavior. Lecture and laboratory. Prerequisites: Psychology 311, 377 and 385. (6 units)

436. EXPERIMENTAL PSYCHOLOGY: LEARNING AND MOTIVATION
Selected theories and research in areas of learning and motivation. Includes literature review and experimental analysis. Lecture and laboratory. Prerequisites: Psychology 311 and 362. (6 units)

490. COUNSELING PSYCHOLOGY
Basic theories and procedures of psychological counseling. Prerequisites: Psychology 315 and 385. (5 units)
498. HISTORY AND SYSTEMS OF PSYCHOLOGY
A senior-level course intended to provide students with a historical framework for integrating basic orientations in contemporary psychology. Prerequisites: Psychology 311 and senior standing. (5 units)

542. NEUROSCIENCE
Integration of the basic principles of neurophysiology and psychobiology, with special attention to information transmission, at various levels in the organism, and interpretation of behavioral correlates. Lecture only. (Also offered as Biology 542. Students may not receive credit for both.) Prerequisites: senior or graduate standing and consent of instructor. (5 units)

569. ADVANCED METHODS IN PSYCHOLOGICAL RESEARCH
Those aspects of philosophy of science and methods of inquiry as applied to procedures for obtaining and evaluating data. Prerequisites: Psychology 210, Mathematics 150 or Social Sciences 215 and Psychology 311 or consent of instructor. (5 units)

570. ADVANCED PSYCHOLOGICAL STATISTICS
Review of concepts of statistical inference. Applications of statistical techniques to the design and interpretation of experimental research. Lecture and 1 1/2 hours of laboratory. Prerequisite: one of the following: Psychology 210, Mathematics 150 or Social Science 215, or consent of instructor. (5 units)

571. APPLIED PROBLEM ANALYSIS
Review and use of methodological and statistical strategies in the solution of applied research problems. Prerequisites: Psychology 569 and Psychology 570 or consent of instructor. (5 units)

575. INTERNSHIP IN PSYCHOLOGY
Supervised work and study in private or public organizations. May be repeated once for credit. (Only five units of Psychology 575 may be applied to upper-division elective requirements in the psychology major.) Prerequisites: consent of instructor and department. (5 units)

578. ADVANCED TOPICS IN PSYCHOLOGY
Selected advanced psychology topics with specific focus within relatively narrow content areas. May be repeated for credit as subject matter changes. Prerequisites: upper-division or graduate standing and consent of instructor. (2 1/2 units)

580. ADVANCED SEMINAR IN PSYCHOLOGY
Selected advanced topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as subject matter changes. Prerequisites: upper-division or graduate standing and consent of instructor. (5 units)

595. INDEPENDENT STUDY
Special topics involving literature and/or experimental effort. A total of 10 units of Psychology 595 may be applied toward graduation, of which a maximum of five units can be applied toward the upper-division requirements in the psychology major. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

600-level courses are open to postbaccalaureate and graduate students only.

601. PROSEMINAR IN GENERAL PSYCHOLOGY I
Topical seminar covering major concepts in core areas of psychology. Prerequisite: classified standing in M.A. program. (5 units)

603. PROSEMINAR IN GENERAL PSYCHOLOGY II
Continuation of Psychology 601. Intended to be taken in the academic quarter immediately following completion of Psychology 601. Prerequisite: classified standing in M.A. program. (5 units)
605. PROSEMINAR IN GENERAL PSYCHOLOGY III
Continuation of Psychology 603. Intended to be taken in the academic quarter immediately following completion of Psychology 603. Prerequisite: classified standing in M.A. program. (5 units)

611. ADVANCED INDEPENDENT STUDY
Advanced research on a specific topic selected by the student with the approval of the student’s committee. May be repeated up to two times for a maximum of 15 units credit with approval of the student’s committee and the department chair. Only five units are required for the master’s degree. Prerequisites: Psychology 569 or Psychology 570; advancement to candidacy. (Credit to be arranged: 2 to 5 units)

612. DIRECTED READINGS
Special topics involving supervised readings under the direction of a faculty member. Prerequisites: graduate standing, departmental approval and consent of instructor. (Credit to be arranged: 2 to 5 units)

620. MASTER’S DEGREE PROJECT
Supervised field work, study and/or research contracted between the student and his/her committee to fulfill the M.S. degree requirement of a culminating experience for the student. Prerequisites: classified status in the M.S. in Psychology program and satisfactory completion of Psychology 569 or 570 and Psychology 611. (5 units)

630. TEACHING OF PSYCHOLOGY
Instructional methods for teaching of psychology at the college level. Prerequisite: classified graduate status in psychology. (2½ units)

640. ADVANCED TOPICS IN NEUROSCIENCE
In-depth consideration of selected areas of neurophysiology and psychobiology. Lecture only. May be repeated for credit as topics change. (Also offered as Biology 640. Students may not receive credit for the same topic in both.) Prerequisite: Psychology 542 or Biology 542. (2½ units)

671. COUNSELING PRACTICUM I
Training in development of basic counseling skills. Lecture and laboratory. Prerequisites: classified status in the M.S. in Psychology program and concurrent enrollment in Psychology 674A and 687A. (5 units)

672. COUNSELING PRACTICUM II
Training in counseling use and application of behavior modification skills. Lecture and laboratory. Prerequisites: grade of A or B in Psychology 671 and concurrent enrollment in Psychology 674B and 687B. (5 units)

673. COUNSELING PRACTICUM III
Training in advanced counseling skills. Lecture and laboratory. Prerequisites: grade of A or B in Psychology 672 and concurrent enrollment in Psychology 674C and 687C. (5 units)

674. GROUP PSYCHOTHERAPY
Group experience for enhancement of self-awareness and professional growth. Graded credit/no credit. Corequisites: Psychology 671, 672 or 673 and Psychology 687A, 687B or 687C.
A. (2 units)
B. (2 units)
C. (2 units)

682. ADULT ASSESSMENT
Training in methods of intellectual, vocational and personality assessment with adults. Prerequisite: classified status in M.S. in Psychology program. (5 units)
683. CHILD ASSESSMENT
Training in methods of intellectual and personality assessment with children. Prerequisite: classified status in M.S. in Psychology program. (5 units)

684. TOPICS IN COUNSELING PSYCHOLOGY
Selected topics within counseling psychology. May be repeated for credit as topic changes. Prerequisites: Psychology 671, 672 and 673. (5 units)

687. INDEPENDENT CONSULTATION IN COUNSELING SKILLS
Individual consultation with staff concerning counseling skills development. Corequisite: concurrent enrollment in Psychology 671, 672 or 673.
A. (2 units)
B. (2 units)
C. (2 units)

689. EXTERNSHIP IN APPLIED PSYCHOLOGY
Supervised field work in a private or public setting for additional applied training and extension of skills developed in the graduate program. Designed to be taken for a maximum of 10 units of credit. Prerequisites: advancement to candidacy and Psychology 569.
A. (5 units)
B. (5 units)

697. INTERNSHIP IN COUNSELING PSYCHOLOGY
Supervised counseling fieldwork in private or public mental health agencies. Designed to be taken three times (year long) for maximum 15 units of credit. Graded credit/no credit. Prerequisites: classified status in the M.S. in Psychology program; Psychology 671, 672, 674A, 674B, 674C, 687A, 687B, 687C; and a grade of A or B in Psychology 673.
A. (5 units)
B. (5 units)
C. (5 units)

698. EXTENDED ENROLLMENT
Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. Prerequisites: advancement to candidacy and consent of department. (0 units)

699. THESIS
Prerequisites: Psychology 569 and/or 570; Psychology 611; advancement to candidacy. (5 units)
SOCIAL SCIENCES

Upon enrolling as a social sciences major, the student will be assigned an advisor from the department of the chosen concentration, at which time a program of study will be agreed upon by the student and the advisor. In designing each student’s program, no more than 40 units may be selected from any one department. Of the 35 units comprising the primary field, no more than 15 units may be from the lower division. In each secondary field, no more than 10 units may be from the lower division.

Those courses which will be required and allowed for use in this major, both in the primary and secondary fields, are listed below. It is the responsibility of both the student and the student’s advisor to construct a program in line with these requirements. Once agreed to, the program is filed in the student’s permanent folder in the Admissions Office but is subject to revision by mutual consent.

No more than one 15-unit special comprehensive examination may be applied to any field, either primary or secondary field, and not more than two of these examinations may be used to meet the requirements of this major.

Inquire at the School of Social and Behavioral Sciences Office, Administration Building, Room 124 (Telephone 887-7221) for further information about the social sciences program and academic advising and counseling.

Requirements for the major (see below): a minimum of 35 units (primary) in one of the following fields, plus 20 units each (secondary) in two others: anthropology, economics, geography, history, political science, psychology and sociology. Social Sciences 215, Sociology 210, Psychology 210, or Mathematics 150 may be chosen (with consent of the student’s advisor) as part of the requirements for the primary field of concentration.

An ethnic studies secondary field may be obtained by taking Social Sciences 155 (Minority Groups in America) and 15 units of upper-division ethnic studies course work from within the School of Social and Behavioral Sciences. No course may be used in a secondary field which has been used in any other part of the social sciences major.

A computer science secondary field may be obtained by taking Computer Science 120 (Introduction to Computing), Computer Science 140 (Introduction to FORTRAN Programming), Computer Science 310 (Computer System Organization I) and Social Sciences 530 (Statistical Programs for Social Scientists). Students selecting this secondary field are required to take a statistics course as a prerequisite for Social Sciences 530. This statistics course may count toward one of the other fields in the social sciences major.

A special topics secondary field may be contracted with the Dean of the School of Social and Behavioral Sciences. Possible topics that may be arranged under this option include, but are not restricted to, women’s studies, Latin American studies, and criminal justice. For more information concerning this
option, contact the Dean of the School of Social and Behavioral Sciences.

Departmental requirements for social sciences major:

ANTHROPOLOGY:
Primary field: (35 units)
  Anthropology 100, Anthropology 102, 15 units chosen from
  Anthropology 300-390, 10 units chosen from Anthropology 456-595.
Secondary field: (20 units)
  Anthropology 100 or Anthropology 102; plus 10 units chosen from
  Anthropology 300-390 and five units chosen from Anthropology 456-595.

ECONOMICS:
Primary field: (35 units)
  Economics 100, Economics 102, Economics 300, Economics 302, five units of
  300-level economics course work and 10 units of 400- or 500-level economics
  course work.
Secondary field: (20 units)
  Economics 100, Economics 102, 10 units of upper-division economics course
  work.

GEOGRAPHY:
Primary field: (35 units)
  Geography 100, Geography 103, Geography 420, 20 units of upper-division
  geography course work. However, no more than 10 of these 20 units of
  upper-division elective course work can be an area study.
Secondary field: (20 units)
  Geography 100 or Geography 103, Geography 420 and 10 units of upper-
  division geography course work. However, only five of these 10 units of
  upper-division course work can be an area study.

HISTORY:
Primary field: (35 units)
  History 200, History 201, History 300, History 301, or equivalents as described
  in the history major requirements, Page 194, and 15 units of upper-division
  history electives.
Secondary field: (20 units)
  History 200 and History 201, or History 300 and 301, or equivalents as de-
  scribed in the history major requirements, Page 194, and 10 units of upper-
  division history electives.

POLITICAL SCIENCE:
Primary field: (35 units)
  Political Science 200, Political Science 203, five units from each of the follow-
  ing fields: American government and politics, comparative politics, interna-
  tional relations, political behavior, political theory.
Secondary field: (20 units)
  Political Science 200 and five units of upper-division course work from each
  of three of the five fields listed above.
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PSYCHOLOGY:

Primary field: (35 units)
Psychology 100, 210; 10 units chosen from 201, 382, 385, 390; five units chosen from 360, 362, 363, 364; five units chosen from 315, 351, 377, 387, 575; and five units of upper-division psychology electives.

Secondary field: (20 units)
Psychology 100; five units chosen from 201, 382, 385, 390; five units chosen from 360, 362, 363, 364; five units chosen from 315, 351, 377, 387.

SOCIOLOGY:

Primary field (35 units)
Sociology 100, Sociology 210, Sociology 305; one of the three: Sociology 310, Sociology 312 or Sociology 360; 15 units of upper-division sociology electives.

Secondary field: (20 units)
Sociology 100; one of the three following: Sociology 310, Sociology 312 or Sociology 360; 10 units of upper-division sociology electives.

Many of the courses listed below are offered as part of the College's general education program. Some are offered in support of other degree programs.

140. WORLD CIVILIZATIONS I, THE RISE OF CIVILIZATION
Activities of man from the beginning through the rise and diffusion of civilization in the era of Middle Eastern dominance to about 500 B.C. (5 units)

142. WORLD CIVILIZATIONS II, THE CIVILIZATIONS OF THE EAST AND WEST
Major civilizations of the past, including the Graeco-Roman world, ancient India and China, the Byzantine and Arabic Empires, and Europe in the Middle Ages. (5 units)

144. WORLD CIVILIZATIONS III, THE EXPANSION OF EUROPE
Rise to dominance of the European states and their impact throughout the world, 1500 A.D. to the present. (5 units)

146. AMERICAN CIVILIZATION
Historical development of the fundamental values of the American culture and the influences of these in selected areas of American life. This course meets the state code requirement in the Constitution of the United States and the state code requirement in American history, institutions and ideals. (5 units)

151. GREAT IDEAS OF POLITICS AND ECONOMICS
Political and economic ideas which have shaped American society. (5 units)

155. MINORITY GROUPS IN AMERICA
Black, Mexican-American and other minority groups as approached from the perspectives of history and the social sciences. (5 units)

160. CONTEMPORARY CIVILIZATION: VALUES AND BEHAVIOR
Interpretation of contemporary society in the light of the knowledge and theories of sociology, anthropology and psychology. (5 units)

165. REGIONS AND PEOPLES OF THE WORLD
Survey of major regions of the world using general physical and cultural concepts to explain patterns and problems of human activities in relation to natural environments. (5 units)
215. STATISTICS FOR THE SOCIAL SCIENCES
Introduction to statistical methods as applied to the social and behavioral sciences. Includes both descriptive and inferential statistics. A self-paced independent study course. Prerequisite: Mathematics 110 or equivalent competency. (5 units)

300. NONWESTERN WORLD
Historical, political, social, geographic and economic aspects of nonwestern societies. (5 units)

304. CONTEMPORARY LATIN AMERICA
Social, economic and political conditions and institutions in contemporary Latin America. (5 units)

315. CULTURAL ADAPTATION: THE QUEST FOR SURVIVAL
An interdisciplinary inquiry into diverse cultural solutions to universal human problems. Topics include alternative cultural provisions for satisfying economic, social, political and religious needs. (5 units)

321. URBANIZATION AND THE URBAN ENVIRONMENT
Patterns and processes of urban growth. Major emphasis on reasons for growth of cities; economic, social, political and structural changes in urban areas which accompany urbanization; and a cross-cultural analysis of urban problems. (5 units)

333. SANITY AND CIVILIZATION
Effects of the social, political and economic institutions of past and contemporary civilizations on definitions of sanity and insanity, and the impact of such definitions on the quality of life. (5 units)

345. RELIGIOUS EXPRESSION IN AMERICA
Interdisciplinary social science analysis of the relationship among religious beliefs, religious practices and secular society in American culture. (5 units)

495. EXPOSITORY WRITING FOR THE SOCIAL SCIENCES
Writing related to the social sciences including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. Graded A, B, C/No Credit. Prerequisites: English 101 and upper-division standing. (5 units)

497. STUDIES IN SOCIAL SCIENCES
Application of social science methods to crucial issues in society. (2½ units)

499. METHODS AND MATERIALS IN THE TEACHING OF THE SOCIAL SCIENCES
May not be counted toward fulfilling requirements of courses in the majors offered by the School of Social and Behavioral Sciences. Prerequisites: Education 330, senior or graduate standing and admission to the single subject credential program. (5 units)

530. STATISTICAL PROGRAMS FOR SOCIAL SCIENTISTS
Computer programs in statistics for social scientists, with an emphasis on SPSS (Statistical Package for the Social Sciences) and on BMD (Biomedical Computer Programs). Prerequisite: one of the following: Sociology 210, Psychology 210, Administration 210, Social Sciences 215, Mathematics 150, or Mathematics 350. (5 units)
SOCIOLOGY

The sociology major offers a balanced program of study for students interested in pursuing graduate study or in the practical application of sociology. The curriculum is designed to expose the student to the scope and methods of sociology and to provide a broad educational background for understanding the structure and functioning of modern society.

As an adjunct to the curriculum, there are two student organizations for sociology majors. The Sociology Club has a varied program of social, community service and academically oriented activities. In addition to general sociology majors, students in criminal justice and students in social work actively participate in the club. A chapter of Alpha Kappa Delta, the sociology honor society, is open to junior sociology majors with a 3.5 GPA and to seniors and graduate students with a 3.0 GPA.

Inquire at the Sociology Department Office, Administration Building, Room 183 (Telephone 887-7224) for further information about the sociology program and academic advising and counseling.

Requirements for the major: a core consisting of Sociology 100, 210 or equivalent, 305, 310 and 312. Also required are 30 additional quarter units in sociology, 25 of which must be upper-division. With the consent of the department advisor, 10 upper-division units in related fields may be substituted for course requirements in the major. By the end of their junior year, all sociology majors should have completed both Sociology 210 and 305. It is strongly recommended that students take these courses as soon as possible after declaring their major.

For those students interested in pursuing a career in social work, the department advises an alternative program incorporating the core courses as noted above plus Sociology 434, 436, 484 and 15 additional quarter units in sociology. It is recommended that Sociology 318 be included. Students should begin planning for such a program with the coordinator of social work before starting their junior year.

Offered within the sociology major is a program in ethnic studies, with an emphasis in Black studies or Mexican-American studies. In addition to the required core courses for the sociology major, the ethnic studies option requires 20 quarter units in either Black studies or Mexican-American studies, at least 10 units of which must be in sociology. (These 20 units of ethnic studies count as 20 of the required upper-division elective units for the sociology major.) An additional 10 quarter units in upper-division sociology are also required.

Students are free to construct individual programs through their choice of electives, or electives may be chosen to correspond to some of the recognized sub-divisions of sociology: social problems (200, 322, 330, 344, 346, 352, 354, 355, 356, 410, 420, 434, 441); social psychology (339, 344, 346, 354, 356, 360, 363, 366, 435); criminology (350, 352, 354, 357, 358, 359); urban sociology (322,
364, 410, 420, 430, 432, 438, 440, 441); social organization (340, 368, 380, 400, 401, 420, 432, 438, 439, 440); sociological methods and theory (360, 363, 400, 401, 432, 440, 590); social work (318, 434, 436, 473, 480, 484); and ethnic studies (322, 340, 341, 342, 410, 440, 441, 442).

Requirements for the minor: 30 quarter units in sociology selected with the consent of a departmental advisor. Ten of these may be at the lower-division level.

Departmental Honors: Students majoring in sociology are eligible to receive honors in sociology at graduation if they have met the following: 3.5 GPA in all sociology courses attempted, at least half of all work attempted in sociology completed at this college, and recommendation for departmental honors by the sociology faculty.

Certificate Program: The Department of Sociology offers certificate programs in applied gerontology and in social work. Details concerning these programs are found on Pages 90 and 97.

100. THE STUDY OF SOCIETY
Survey of the basic characteristics and dynamics of society and culture from the sociological perspective. (5 units)

200. SOCIAL PROBLEMS
Social problems in modern industrial societies. Discussion of sociological research and theoretical propositions dealing with such problems as drug addiction, mental illness, war, abortion and sexual perversions. (5 units)

210. SOCIOLOGICAL STATISTICS
Introduction to statistical methods as applied to the social and behavioral sciences. Includes both descriptive and inferential statistics. Emphasis on both parametric and nonparametric types of measures and analyses. (5 units)

Prerequisite for upper-division courses is Sociology 100, or consent of instructor.

305. SOCIOLOGICAL RESEARCH AND ANALYSIS
Principles of research design, methods of data collection and analysis. Prerequisite: Sociology 210, Social Sciences 215 or equivalent. (5 units)

310. HISTORY OF SOCIOLOGICAL THEORY
Historical development of classical sociological theory. (5 units)

312. CONTEMPORARY SOCIOLOGICAL THEORY
Contemporary sociological theory, including an examination of origins, trends, schools and areas of controversy. Prerequisite: Sociology 310. (5 units)

318. SOCIAL WELFARE POLICIES AND SERVICES
Survey and analysis of welfare as a complex of societally established income maintenance and social service programs. (5 units)

322. SOCIOLOGY OF THE GHETTO
Existing theories relating to ghetto life styles; the relationship of these to American society as a whole. (5 units)

330. SOCIAL GERONTOLOGY
Age-status and age-roles in American society, with cross-cultural comparisons including intergenerational conflict and other age-related behaviors. (5 units)
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339. SOCIALIZATION
Theories, goals and processes of childhood socialization and, to a lesser extent, adult socialization. Emphasis on organized social roles as they are mediated through the norms and patterned interactions of institutions; that is, the family, peer groups and the schools. (5 units)

340. SOCIOLOGY OF THE FAMILY
A systematic and comparative analysis of family structure and change: marriage, reproduction, child-rearing, marital problems. (5 units)

341. MARRIAGE AND FAMILY AMONG BLACKS
Forces affecting the Black family, with emphasis on the roles assigned to individual members. (5 units)

342. THE CHICANO FAMILY
Consideration of the traditional and changing Mexican-American family patterns. Regional and social class variations. Influence of the family on Mexican-American personality development from a social-psychological perspective. (5 units)

344. SEX ROLES: THE LIFE CYCLE
An examination of the social roles of men and women in contemporary American society from a life-cycle perspective. Class and racial/ethnic variations in sex-role socialization are emphasized. (5 units)

346. SEX ROLES: INEQUALITY
Cross-cultural analysis of systems of sex inequality, emphasizing the maintenance of and changes in these systems. (5 units)

350. CRIMINOLOGY
Causes of crime with emphasis on sociological factors. (5 units)

352. JUVENILE OFFENDER
Causes of juvenile delinquency, types of juvenile offenders, the juvenile court, legal aspects of delinquency and methods of rehabilitation. (5 units)

354. DEVIANT BEHAVIOR
Deviant modes of human adjustment to modern society; processes of personal-social interaction in development of individual and group deviation. (5 units)

355. MEDICAL SOCIOLOGY
Patient’s self concept from the pre-patient stage to the post-patient state and the relationship to the social system. Developmental stages on the “sick role” in contemporary society are emphasized. (5 units)

356. SOCIOLOGY OF MENTAL ILLNESS
Cultural variations in definitions of mental health and illness; social processes involved in defining, labeling and treating mental illness; stigmatizing effects of being labeled mentally ill; relationship of the incidence and treatment of mental illness to class, ethnicity and other sociological categories. (5 units)

357. SOCIOLOGY OF LAW ENFORCEMENT
Sociological analysis of law enforcement systems and the police role, consideration of police discretion and differential implementation of the criminal law, problems affecting crime control and the interdependence of police and community. (5 units)

358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS
History and theories of punishment and treatment in dealing with criminals, sociological analysis of institutional systems and community based systems, work release programs and pre-release guidance centers. (5 units)
359. LAW AND SOCIETY
Social and cultural factors underlying the development, maintenance and change of law, legal structures and legal processes; comparative analysis of legal systems; and sociological consideration of the nature of justice. (5 units)

360. SOCIAL PSYCHOLOGY
The study of social interaction as it influences the development of self, role behavior, attitudes and values. Emphasis on symbolic interaction as a school of thought. (5 units)

363. SOCIOLOGY OF COMMUNICATION
Symbolic and organizational aspects of human communication systems including linguistic and non-linguistic means of communicating. Special attention will be devoted to attitudes and beliefs as influenced by interpersonal interaction and the mass media. (5 units)

364. PUBLIC OPINION AND PROPAGANDA
Nature and bases of public opinion; the social context of propaganda, its bases, its social psychological functions and the techniques of propagandists. (5 units)

366. COLLECTIVE BEHAVIOR AND SOCIAL MOVEMENTS
Social psychological bases of crowd behavior, rumor, panic, riots, disasters and social movements; with a special emphasis on social movements. (5 units)

368. SOCIOLOGY OF WORK AND THE PROFESSIONS
Development of occupational roles, with emphasis on specialization and mobility; impact of occupations on social institutions; special focus on the development of the professions. (5 units)

370. SOCIOLOGY OF POPULAR CULTURE
Sociological study of leisure and popular culture, including sports and mass media. Analysis of the relationships among popular culture, social structure and social change. (5 units)

380. SOCIOLOGY OF RELIGION
Theoretical analysis of religion as a social institution in complex societies. Structure and functioning of religious organizations, roles and role relationships; types of religious organizations and leadership; relationships of religion to other social institutions; religion and social change. (5 units)

388. SPECIAL COMPREHENSIVE EXAMINATION IN SOCIOLOGY CORE CURRICULUM
Independent study, without required classroom meetings, of the subject matter appropriate to three courses required for the major: Sociology 310, 312 and 400. Prerequisite: consent of instructor. Refer to Page 56 for comprehensive examination limitations. (15 units)

400. SOCIAL CHANGE
Sources of change in societies; theories of social change, social conflict and the interpretation of social trends; social change and related problems in less-developed countries; processes and problems of planned change. (5 units)

401. SOCIAL ORGANIZATION
Concepts and theories for analysis of social systems, for example, family, work group, community and bureaucracy; structural features of social systems, their interdependence and the relationship of the individual to social systems. (5 units)

410. RACIAL AND CULTURAL MINORITIES
Minority group status in contemporary American society. (5 units)

420. POPULATION AND SOCIAL ECOLOGY
Social causes and consequences of population growth, decline and relocation. (5 units)
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430. URBAN SOCIOLOGY
Nature, causes and consequences of urbanization; metropolitan areas; location and types of cities; social and demographic characteristics of urban populations. (5 units)

432. POLITICAL SOCIOLOGY
Examination of political process from the perspective of sociology, exploring in depth the nature, distribution and exercise of power, and related areas of interest. (5 units)

434. COMMUNITY ORGANIZATION
Programs of action, operative and proposed, for the organization of the community and the solution of its problems. (5 units)

435. THE SOCIOLOGY OF SMALL GROUPS
Sociological analysis of the structure and processes of small groups, including the analysis of roles, interpersonal relations, group characteristics, and intergroup relations; includes the application of small group theory with the class. Prerequisite: consent of instructor. (5 units)

436. GROUP DYNAMICS
Dynamics of primary group relationships, including psychotherapy groups. (5 units)

438. INDUSTRIAL SOCIOLOGY
Human relations in industry, both formal and informal, with special attention to problems of morale, productivity, decision-making and bureaucratic structure. (5 units)

439. MILITARY SOCIOLOGY
The military institution—its functions and role in the modern state; socialization of its officers and men. (5 units)

440. POWER AND PRIVILEGE
Class, caste and other systems of social stratification with particular reference to the United States. (5 units)

441. BLACK SOCIAL STRATIFICATION
Caste in America, comparison of Black and white stratification, Black social mobility. (5 units)

442. CHICANO SOCIAL STRATIFICATION
Variables affecting the social status of the Mexican-American in society, Mexican-American social mobility, social class differences in Mexican-American communities. (5 units)

473. INTERVIEWING IN SOCIAL WORK
Basic interviewing methodology and techniques utilized by social workers in communicating with people who are experiencing adjustment problems. (5 units)

480. HUMAN GROWTH AND SOCIAL ENVIRONMENT
Consideration of the interplay of physiological, social and environmental factors in relation to individual growth and behavior. (5 units)

484. SOCIAL CASEWORK
Process of problem solving used by social work agencies to help individuals to cope more effectively with their problems in social functioning. (5 units)

488. SPECIAL COMPREHENSIVE EXAMINATION IN SOCIOLOGY ELECTIVES
Independent study, without required classroom meetings, of the subject matter appropriate to these three elective courses: Sociology 363, 364 and 366. Prerequisite: consent of instructor. Refer to Page 56 for comprehensive examination limitation. (15 units)
530. ADVANCED SEMINAR IN THE SOCIOLOGY OF AGING
Sociological analysis of the aged and their relationship to major institutions and the processes of social organization. Prerequisite: Sociology 330 or consent of instructor. (5 units)

555. INDEPENDENT STUDY
Special topics involving library and/or field research. A total of 10 units in Sociology 555 may be applied toward graduation. Prerequisites: senior or graduate standing, a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (5 units)

575. INTERNSHIP IN SOCIOLOGY AND SOCIAL WORK
Supervised work and study in private or public organizations. May be repeated once for credit. Prerequisites: consent of instructor and department. (5 units)

590. SEMINAR IN SOCIOLOGY
An intensive study of some phase of sociology to be developed by the instructor with his class. May be repeated for credit as topics change. Prerequisite: consent of instructor. (5 units)
SPANISH

Inquire at the Foreign Languages Department Office, Library-Classroom Building, Room 266C (Telephone 887-7445) for further information about the foreign language programs and academic advising and counseling.

Requirements for the major: proficiency in Spanish equal to that of Spanish 103 or its equivalent; Spanish 202, 204, 301, 302; 10 units of Spanish 400; 10 units of Spanish 514; five units chosen from Spanish 312, 314, or 316; and 10 units chosen from any other upper-division Spanish course in language, culture, civilization and literature (including Spanish 450 or Foreign Languages 450 when the topic deals with any Hispanic literature).

Requirements for the minor: proficiency in Spanish equal to that of Spanish 103 or its equivalent*, and twenty additional units in Spanish, ten of which must be at the upper-division level.

Certificate Program: The Department of Foreign Languages and Literatures offers a certificate program in Spanish for Public Services. Details concerning this program are found on Page 98.

Spanish majors are encouraged to broaden the scope of their studies by using some of their electives to take courses in French or German. Many students may desire to use their electives to prepare a minor or a second major. The department encourages such a program and is prepared to help each student plan.

Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

80. PREPARATION FOR COLLEGE SPANISH
Preparation in pronunciation, structure and reading. Units awarded for Spanish 80 are not applicable to a baccalaureate degree. Graded A, B, C/No Credit. (5 units)

101. COLLEGE SPANISH I
Fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish. (5 units)

102. COLLEGE SPANISH II
Continuation of Spanish 101. (5 units)

103. COLLEGE SPANISH III
Continuation of Spanish 101 and 102 stressing conversation and acquisition of reading skills. (5 units)

133. PRACTICAL SPANISH FOR PROFESSIONALS AND TRAVELERS
Fundamentals of Spanish with emphasis on vocabulary used in the medical, teaching, law enforcement and social welfare professions or in traveling. May be repeated for a maximum of 10 units of credit. May not be counted toward fulfilling requirements in the Spanish major. (5 units)

* Entering students with previous training in Spanish, and those who are native speakers, should contact the department for information about advanced placement and credit by examination.
202. GRAMMAR AND COMPOSITION
Comprehensive review of the principles of Spanish grammar, emphasizing their application to composition. Prerequisite: Spanish 103 or equivalent. (5 units)

204. INTRODUCTION TO LITERARY TEXTS
Techniques of literary study and analysis. Vocabulary development. Prerequisite: Spanish 103 or equivalent. (5 units)

206. CONVERSATION
Practice of oral Spanish stressing the discussion of current topics. Panel discussions, debates, short talks, skits. May be repeated for a maximum of five units of credit. May not be counted toward fulfilling requirements in the Spanish major. Prerequisite: Spanish 103. (2½ units)

Ordinarily, upper-division courses are conducted in Spanish. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

301. PRACTICAL PHONETICS
In-depth study of the Spanish sound system. Oral practice and study of general principles of Spanish phonology and dialectology. Prerequisite: Spanish 202 or 204 or equivalent. (5 units)

302. THEORY AND PRACTICE IN COMPOSITION
Extensive practice in composition and style. May be repeated for credit. Prerequisite: Spanish 202 or 204 or equivalent. (5 units)

312. TECHNIQUES FOR PROFESSIONAL INTERPRETING AND TRANSLATING IN SPANISH
Oral and written practice and methods of translation from Spanish to English and English to Spanish with application to public service activities. Prerequisite: Spanish 302. (5 units)

314. ADVANCED CONVERSATION
Intensive practice of oral Spanish leading to fluency, to the development of a comprehensive, practical vocabulary and to public speaking skills. Prerequisite: Spanish 302. (5 units)

316. SPANISH IN COMMUNICATION MEDIA
Oral and written practice in terminology and vocabulary used in business, law, science, technology, television and radio. Prerequisite: Spanish 302. (5 units)

399. COMMUNITY SERVICE PROJECT
Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)

400. MASTERPIECES IN SPANISH AND SPANISH AMERICAN LITERATURE
Reading and discussion of selected masterworks of Spanish and Spanish American literature. May be repeated as topics change. Prerequisite: Spanish 204. (5 units)

414. SPANISH LINGUISTICS
Analysis of the morphology and syntax of Spanish, emphasizing linguistic differences among Spanish, English and the Spanish spoken in the southwestern states of this country. Prerequisite: Spanish 301 or equivalent. (5 units)

440. MEXICAN LITERATURE
Survey of the development of Mexican literature from 1520 to the present. Prerequisite: Spanish 204 or equivalent. (5 units)
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450. MEXICAN LITERATURE IN TRANSLATION
Critical examination of selected works of Mexican literature. Emphasis on the novel, drama, poetry and the essay. May not be taken for credit by students who have received credit for Foreign Languages 450, Literature in Translation: Mexico. (5 units)

500. SPANISH GOLDEN AGE LITERATURE
Intensive study in the works of a particular writer or in a genre. May be repeated for credit as subject matter changes. Prerequisite: two 400-level literature courses or equivalent. (5 units)

514. SEMINAR IN HISPANIC LANGUAGE, LITERATURE OR CIVILIZATION
Advanced study of a single author, a literary movement, linguistics or civilization. May be repeated as topics change. Prerequisite: one 400-level Spanish course. (5 units)
SPECIAL MAJOR

Occasionally, a student with special educational or vocational objectives may find that the existing degree programs of the College are inadequate and that a carefully structured, multidisciplinary program of study, drawn from the regular offerings of two or more departments, is more appropriate to his needs. The special major is designed to meet these needs.

The special major cannot be used simply to achieve breadth in an educational program, to substitute for a recognized degree program which the College is not authorized to offer, to bypass normal graduation requirements, nor as an alternative to completion of the degree requirements for a program in which the student is in academic difficulty.

Inquire at the Office of Academic Planning, Administration Building, Room 196 (Telephone 887-7521) for further information about the special major program and academic advising and counseling.

In order to be admitted to the special major program, a student must submit a written request for approval to the Office of Academic Planning, stating academic and professional reasons and outlining a proposed plan of study. In addition, the following regulations apply:

1. To be admitted to the special major program, the student must have more than one full year of academic work (45 quarter units) to complete to meet the minimum degree requirements for a bachelor's degree.

2. The plan of study must include at least 36 quarter units of upper-division course work.

3. No courses that are applied to the general education requirement of the College are applicable toward minimum requirements of the special major.

For information concerning the Master of Arts degree with a special major, contact the Associate Dean of Graduate Studies.
Fun and hard work characterize the life of the theatre arts student. A student's interest may be oriented toward career goals or toward avocational goals. The curriculum and productions provide a broad base for both by exploring every phase of those arts. Many opportunities exist for working in student productions of varying forms.

These experiences in the theatre arts are available to nonmajors as well as majors. Plays are cast from enrolled students except for an occasional resident artist.

Classes are designed to afford optimum individual attention. Professors in the department do not hesitate to present differing points of view, which encourages students to develop their skill to think independently and critically.

Inquire at the Theatre Arts Department Office, Creative Arts Building, Room 175 (Telephone 887-7452) for further information about the theatre arts program and academic advising and counseling.

Requirements for the major: Theatre Arts 210; 230; 330; 340; 343; 441 or 443; four courses in dramatic literature (450 to 476); three additional upper-division five-unit courses; and five practica (10 units of Theatre Arts 320 or equivalent). At least three practica must be distributed in areas other than acting. Transfer students may petition the department to make substitutions when they can provide evidence of competence in a specific area.

With the approval of an advisor, a student having specialized interests (for example, interpersonal communications) may develop an alternative program of study leading to the major. Such a program will require the same amount of course work as described above but with a different distribution.

Requirements for a minor in theatre arts: six upper-division courses including Theatre Arts 330 and 340; 441 or 443; and two courses numbered 450 or above.

120. ORAL COMMUNICATION
Basic characteristics of human communication including such elements as self-awareness, verbal and non-verbal language, values and perception. These elements will be applied to various forms of oral communication settings, for example dyadic, serial, small group and public speaking. (5 units)

210. ORAL INTERPRETATION OF LITERATURE
Introduction to the techniques of the oral performance of literature; emphasizes literary and aesthetic analysis and the oral presentation of poetry and prose. (5 units)

230. STAGECRAFT
Introduction to the theory and practice of stage production including the use of tools, materials, and techniques required in executing designs of scenery, properties, costumes and lighting. (5 units)
250. THE ART OF THEATRE ARTS
Development of an awareness of such arts of the theatre as set, costume and lighting design; of acting
and directing; of theatre management, organization; and of the history of theatre architecture and
dramatic literature. The course will be arranged around a contemporary theatrical event. (5 units)

300. ELEMENTS OF PUBLIC SPEAKING
Principles and techniques of public platform speaking. Analysis and performance. (5 units)

302. ANALYSIS OF DRAMA
The literary experience through study of structure and theme in selected plays. (Also offered as
English 302. Students may not receive credit for both.) (5 units)

305. DISCUSSION AND DEBATE
Group discussion techniques and their implementation, leading to the basic principles of argumenta­tive
discourse, including the concepts of presumption, burden of proof, rhetorical forms of reasoning
and evidence. Practice in applying these principles in discussion and debate. (5 units)

320. THEATRE PRACTICUM
Application of theatre for an audience. Students will concentrate on acting, or technical production,
for an intensive period. Open to all students. May be repeated for credit up to a total of 20 units.
No more than 10 units of theatre practicum may be counted toward fulfilling course requirements
in the theatre arts major. No more than 20 units of theatre practicum (Theatre Arts 320, 325) may
be used to satisfy graduation requirements. (2 units)

325. FORENSICS PRACTICUM
Activity course to prepare students for intercollegiate forensics competition. May be repeated for
credit up to a total of 20 units. No more than 10 units may be counted toward fulfilling course
requirements in the theatre arts major. No more than 20 units of theatre practicum (Theatre Arts
320, 325) may be used to satisfy graduation requirements. (2 units)

330. DESIGN
Consideration of the aesthetics involved in scenic, costume and lighting design and their influence
on theatrical production. Study of the elements of line, color, and texture through two- and three-
dimensional projects. Prerequisite: Theatre Arts 230 or consent of instructor. (5 units)

340. ACTING I
First steps in acting and mimetic expression. Development through class participation in planned
exercises of self-expression and techniques in creating a role. (5 units)

341. ACTING II
Styles in acting. Techniques in creating a role in period dramas requiring coordination in the internal
and external manifestations of character. May be repeated once for credit with consent of instructor.
Prerequisite: Theatre Arts 340 or consent of instructor. (5 units)

343. ORAL INTERPRETATION FOR THE THEATRE
Techniques for the oral performance of drama, including literary and aesthetic analysis of plays. (5
units)

415. COMMUNICATION AND PERSUASION
Techniques of oral persuasion and its relationship to attitude change: theory and practice. Cross­
cultural communication and freedom of speech are also considered. (5 units)

420. TECHNIQUES OF MASS COMMUNICATION
Studies of and experience with the techniques of mass media and their effects on society, emphasiz­ing
such forms as television, film and print. (5 units)
441. DIRECTING
Development of the theory and practice of play directing. Student director gains experience by participation in directorial exercises. Prerequisite: Theatre Arts 340 or consent of instructor. (5 units)

443. READERS THEATRE
Group techniques for oral performance and staging of literature. Includes the preparation and performance of scripts for readers theatre, choral theatre, story theatre and chamber theatre. Prerequisites: Theatre Arts 210, 343, or consent of instructor. (5 units)

445. THE CAMERA EYE
Film as a creative art medium. Such topics as the history of silent film, film since the '50's or television will be chosen. May be repeated for credit with consent of instructor. (5 units)

450. CLASSICAL DRAMA
Development of comedy and tragedy in Greece and Rome. (Also offered as English 450. Students may not receive credit for both.) (5 units)

451. MYSTERY TO MELODRAMA
Development of drama from medieval passion plays to late 19th century villain-hissing melodramas. Emphasis on either comedy or tragedy. (5 units)

455. MODERN DRAMA I
European, British and American realism, beginning with variations of the 19th century well-made play. Emphasizes such playwrights as Ibsen, Chekhov, Shaw and O'Neill. (Also offered as English 455. Students may not receive credit for both.) (5 units)

456. MODERN DRAMA II
European, British and American anti-realism, including various avant-garde movements. Emphasizes such playwrights as Brecht, Pinter, Wilder and Genet. (Also offered as English 456. Students may not receive credit for both.) (5 units)

461. AMERICAN DRAMA
Survey of the American theatre and its drama (Dunlap to Odets) as they reflect the changing patterns of American society. (5 units)

475. SHAKESPEARE I
Comedies and history plays. (Also offered as English 475. Students may not receive credit for both.) (5 units)

476. SHAKESPEARE II
Tragedies and romances. (Also offered as English 476. Students may not receive credit for both.) (5 units)

481. CREATIVE DRAMATICS
Experience with improvisational dramatic techniques which emphasize concentration, imagination and self-expression and are designed to develop creative leadership for parents, recreation leaders, elementary and secondary teachers. (5 units)

510. STUDIES OF MAJOR FIGURES AND GENRES
May be repeated for credit with consent of instructor. (5 units)

515. COMMUNICATION THEORY
Analysis of communication theories and research. Students will acquire a working knowledge of the communication process, an understanding of the underlying forces at work in given social settings and a familiarity with alternative explanations of communication outcomes. (5 units)
520. THEATRE SEMINAR
Literature and theory relative to aesthetics, theatre history, drama and dramatic criticism. May be repeated for credit with consent of instructor. (5 units)

555. INDEPENDENT STUDY
Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (5 units)
VOCATIONAL EDUCATION

The Bachelor of Vocational Education is an opportunity for vocational teachers with extensive occupational and professional experience to pursue a baccalaureate degree program in the School of Education at California State College, San Bernardino. The degree is made possible through legislation, commonly called the Swan Bill, which provides college credits for work experience in related fields. The degree can be awarded only to students who obtain the designated subjects teaching credential and an evaluation by the California State Board of Examiners for Vocational Teachers, either prior to or concurrent with the degree program. To qualify for the evaluation, the applicant must have seven years of full-time work experience and either two years of full-time or three years of part-time teaching experience, or its equivalence, seven years of full-time work experience, and either 1600 hours full-time or 1000 hours part-time teaching experience.

Credits for the B.V.E., with a major in vocational arts, derive from: work experiences, teaching experiences, college courses and examinations.

Requirements for the B.V.E.:

- Lower-division general education * 60 units
- Upper-division general education 15 units
- Major in vocational arts ** 45 units
- Designated subjects (credential program) and education electives 40 units
- Prescriptive electives 26 units

Total 186 units

* May be completed through an appropriate selection of courses at a community college or at CSCSB

** Up to 60 units will be awarded for work experience by the Swan Bill evaluation

A major portion of the credit in vocational arts for work experience will be awarded by the Board of Examiners for Vocational Teachers upon application by the student (Swan Bill evaluation). The program requires a minimum of 20 upper-division units in the major. Based on the recommendation of the College's vocational education advisor, up to 18 units of the credit awarded by the board may be designated upper division. The remaining units in the vocational arts major are to be taken in regular courses, related to the student’s specific interests, selected with the approval of the vocational education advisor. 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.
Inquire at the School of Education Office, Library-Classroom Building, Room 43A (Telephone 887-7571) for further information about the vocational education program and academic advising and counseling.

Ordinarily a student will have obtained the designated subjects credential before enrolling in the B.V.E. degree program, but provisions can be made for concurrent completion. The credential may be awarded either by the University of California or by a campus of the California State University and Colleges. A student should consult the School of Education for information about the credential program. The total degree-applicable credit allowed for the credential and electives in professional education is 40 units.

Additional courses required to meet graduation requirements must be chosen in consultation with the vocational education advisor from among courses and programs throughout the college except for professional education. Degree candidates are urged to use these prescriptive electives to develop a secondary educational objective—an academic major, an academic minor, a certificate or prerequisite work for graduate study. Courses transferred from another college which are not used elsewhere in the degree program may also be used as prescriptive electives.

Students under 25 years of age must present six units of physical education activity for graduation.
FACULTY 1982–83

Kerri L. Acheson, 1980
Lecturer in Administration
B.S. 1974, University of North Dakota; M.S. 1977, Utah State University.

Richard T. Ackley, 1974
Associate Professor of Political Science; Associate Dean of Academic Administration
B.A. 1950, University of Southern California; M.A. 1969, University of Hawaii; Ph.D. 1973, University of Southern California.

Gene L. Andrusco, 1977
Assistant Professor of Administration
B.S. 1972, M.B.A. 1975, California State University, Los Angeles.

Margaret A. Atwell, 1981
Assistant Professor of Education

Elliott R. Barkan, 1968
Professor of History

Ronald E. Barnes, Jr., 1965
Professor of Theatre Arts; Chair, Department of Theatre Arts
B.S.Ed. 1951, University of Minnesota; Ph.D. 1963, Stanford University.

Sherrie R. Bartell, 1976
Assistant Professor of Education; Chair, Department of Special Programs

Joe Bas, 1968
Professor of Spanish

Frances F. Berdan, 1973
Professor of Anthropology; Chair, Department of Anthropology
B.A. 1965, M.A. 1967, Michigan State University; Ph.D. 1975, University of Texas.

Francesca E. Bero, 1979
Assistant Professor of Education
B.A. 1968, California State University, Sacramento; M.A. 1972, San Francisco State University; Ph.D. 1979, Claremont Graduate School.
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Martin A. Bertman, 1981
Lecturer in Philosophy

Anand R. Bhatia, 1972
Assistant Professor of Administration
B.Sc. 1957, M.E. 1961, Bombay University; B.S.E.E. 1964, Western States College of Engineering;

Robert F. Bicher III, 1979
Lecturer in Administration
B.S. 1975, M.A. 1978, University of California, Riverside.

Edward W. Bilderback, 1981
Associate Professor of Education

Robert A. Blackey, 1968
Professor of History

Marty Bloomberg, 1966
Assistant Director of the Library

Sheldon E. Bockman, 1973
Professor of Administration

Patricia A. Boger, 1981
Lecturer in Psychology

Robert B. Bowin, 1981
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B.A. 1953, University of Portland; M.S. 1954, Columbia University; Ph.D. 1979, University of Oregon.

Stephen A. Bowles, 1974
Professor of Education
B.A. 1960, University of Denver; M.A. 1964, University of Connecticut; Ph.D. 1972, University of California, Santa Barbara.

Harry W. Brod, 1981
Lecturer in Philosophy

Irving H. Buchen, 1979
Professor of English; Dean, School of Humanities
Dominic M. Bulgarella, 1969

Associate Professor of Sociology

A. Vivien Bull, 1976

Assistant Professor of French
B.A. 1942, Cambridge University; M.A. 1973, Ph.D. 1977, University of New Mexico.

Michael R. Burgess, 1970

Associate Librarian
A.B. 1969, Gonzaga University; M.S. in L.S. 1970, University of Southern California.

Jeffrey B. Burnham, 1981

Lecturer in Political Science

B. Jill Buroker, 1981

Assistant Professor of Philosophy

Naomi J. Caiden, 1981

Professor of Administration
B.Sc. 1959, University of London; M.A. 1966, Australian National University; Ph.D. 1978, University of Southern California.

Lloyd E. Campbell, 1975

Assistant Professor of Education

Lawrence W. Cappel, 1974

Associate Professor of Health Science
A.B. 1970, M.A. 1971, California State University, Humboldt; Ph.D. 1974, University of Utah.

Elba K. Cavallari, 1981

Lecturer in Spanish

John S. Chaney, 1972

Professor of Administration
B.S. 1966, University of Southwestern Louisiana; M.B.A. 1968, Ph.D. 1971, University of Texas.

Ralph James Charkins, 1976

Associate Professor of Economics

C. Charles Christie, Jr., 1972

Associate Professor of Administration
278 / Faculty

Stella Clark, 1971

Professor of Spanish
B.A. 1964, University of Mississippi; M.A. 1966, Ph.D. 1971, University of Kansas.

K. Michael Clarke, 1976

Associate Professor of Administration; Chair, Department of Public Administration
B.A. 1969, M.A. 1970, University College Dublin; Ph.D. 1975, University of Georgia.

Wallace T. Cleaves, 1971

Professor of Psychology
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Frances S. Coles, 1978

Associate Professor of Sociology; Coordinator, Criminal Justice

Suzanne N. Cory, 1980

Assistant Professor of Administration
B.S. 1973, California State University, Northridge; M.B.A. 1977, University of Nevada.

Gloria A. Cowan, 1973

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B.S. 1964, George Washington University; Ph.D. 1969, Georgetown University.

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Assistant Professor of Psychology

James D. Crum, 1966

Professor of Chemistry; Dean, School of Natural Sciences
B.Sc. 1952, The Ohio State University; M.Sc. 1953, Marshall University; Ph.D. 1958, The Ohio State University.

M. Jane Darany, 1981

Assistant Professor of Nursing
B.S. 1971, Michigan State University; M.S. 1981, Loma Linda University.

David L. Decker, 1971

Professor of Sociology; Chair, Department of Sociology

Margaret S. Doane, 1976

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G. Keith Dolan, 1967
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James T. Doyle, 1980
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Leo G. Doyle, 1971
Professor of Art

Howard B. Dretel, 1980
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Alfred S. Egge, 1966
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Anne M. Eggebroten, 1981
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Amer El-Ahraf, 1973
Professor of Health Science; Chair, Department of Health Science and Human Ecology
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Stuart R. Ellins, 1973
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Edward J. Eriker, 1975
Associate Professor of Political Science; Chair, Department of Political Science

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Director of Placement
Loren H. Filbeck, 1972
Professor of Music; Chair, Department of Music

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Professor of English; Associate Dean of Academic Planning

Ernest F. Garcia, 1968
Professor of Education; Dean, School of Education
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Eugene Garver, 1974
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David R. Gerling, 1980
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Priscilla S. Gilbertson, 1978
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Bruce Golden, 1965
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Carol F. Goss, 1971
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Joseph W. Gray, 1969
Assistant Professor of Education

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Associate Professor of Physical Education and Recreation
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Ph.D. 1956, University of Vienna.

Dorothy Johnson, 1976
Professor of Nursing
B.S. 1956, University of California, Berkeley; M.S.N. 1957, Yale University; M.P.H. 1967, Dr. P.H. 1975, University of California, Los Angeles.

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Assistant Professor of Music
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Lecturer in Physical Education
B.S. 1977, State University of New York College at Geneseo; B.S. 1979, State University of New York College at Brockport; M.A. 1981, University of Connecticut.

Larry L. Kramer, 1968
Professor of English

Nathan Kravetz, 1976
Professor of Education

Ellen L. Kronowitz, 1978
Associate Professor of Education

Ted Krug, 1972
Director of Financial Aid

Carolyn Kubiak, 1978
Assistant Professor of Education
Jerome C. Langham, 1976

Lecturer in Administration

Robert A. Lee, 1968

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B.A. 1961, University of California, Riverside; Ph.D. 1966, University of Oregon.

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B.A. 1951, M.Ed. 1957, University of California, Los Angeles; Ph.D. 1972, Claremont Graduate School.

Kathleen M. Lewicki, 1981

Assistant Professor of Theatre Arts

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Associate Professor of Mathematics

Donald B. Lindsey, 1973

Associate Professor of Sociology

Roger P. Lintault, 1969

Professor of Art

Marsha B. Liss, 1976

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B.A. 1971, Barnard College; Ph.D. 1976, State University of New York at Stony Brook.

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Professor of Physics; Chair, Department of Physics
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Associate Professor of Administration
B.A. 1970, University of Southern California; M.A. 1972, George Washington University; J.D. 1975, University of Virginia.

David J. Lutz, 1980

Assistant Professor of Psychology

Loralee MacPike, 1978

Associate Professor of English
B.A. 1960, Bryn Mawr College; M.A. 1970, California State University, Hayward; Ph.D. 1976, University of California, Los Angeles.
Ward M. McAfee, 1965
Professor of History; Dean, School of Social and Behavioral Sciences

John F. McDonnell, 1969
Professor of Administration; Chair, Department of Business Administration
B.S. 1955, Bowling Green State University; M.B.E. 1967, Ph.D. 1974, Claremont Graduate School.

Mary L. McGregor, 1975
Associate Professor of Nursing
B.S. 1971, M.S. 1976, Loma Linda University.

Patrick S. McInturff, Jr., 1978
Associate Professor of Administration
B.S. 1972, M.A. 1974, University of California, Riverside; J.D. 1976, La Verne University; Ph.D. 1979, University of California, Riverside.

Sarojam Mankau, 1968
Professor of Biology
B.A. 1949, Women’s Christian College, India; M.S. 1952, Ph.D. 1956, University of Illinois.

Kenneth A. Mantei, 1968
Professor of Chemistry; Chair, Department of Chemistry
A.B. 1962, Pomona College; Ph.D. 1967, Indiana University.

Terrell G. Manyak, 1978
Associate Professor of Administration
B.A. 1962, California State University, Northridge; M.P.A. 1963, Syracuse University; Ph.D. 1976, University of California, Los Angeles.

Carolyn A. Martin, 1974
Associate Professor of Physical Education and Recreation
B.S. 1968, Lincoln University; M.A. 1974, California State Polytechnic University, Pomona.

Lance A. Masters, 1981
Assistant Professor of Administration

E. Clark Mayo, 1967
Professor of English; Chair, Department of English

Thomas M. Meisenhelder, 1975
Associate Professor of Sociology
Alan W. Messing, 1981
Lecturer in Chemistry
B.S. 1963, University of Wyoming; M.S. 1966, California State University, Long Beach; Ph.D. 1970, University of California, Davis.

Kenton L. Monroe, 1965
Professor of Psychology; Dean of Students
B.A. 1959, University of Oregon; M.S. 1963; Ph.D. 1964, Purdue University.

Jackie N. Moore, 1978
Lecturer in Administration
B.B.A. 1949, University of Texas; M.B.A. 1964, Harvard University.

Arthur Moorefield, 1973
Professor of Music
B.M. 1950, Cincinnati Conservatory; M.A. 1958, New York University; Ph.D. 1965, University of California, Los Angeles.

Joseph R. Moran, 1972
Associate Professor of Art
B.A. 1970, University of California, Riverside; M.F.A. 1972, Claremont Graduate School.

Mary K. Moran, 1981
Assistant Professor of Administration
B.A. 1971, University of Kansas; M.B.A. 1974, University of California, Los Angeles.

Richard L. Moss, 1973
Professor of Economics

T. Patrick Mullen, 1981
Associate Professor of Education

James L. Mulvihill, 1981
Assistant Professor of Geography

Tevfik F. Nas, 1981
Lecturer in Economics

Arthur Nelson, 1963
Director of Library
B.A. 1950, St. Thomas College; M.A. 1951, M.A.L.S. 1956, University of Minnesota.

Frederick A. Newton, 1975
Associate Professor of Psychology
B.S. 1967, St. Peter's College; M.S. 1970, Villanova University; Ph.D. 1975, University of Houston.
Christopher J. Niggle, 1980
Lecturer in Economics

David H. Null, 1977
Assistant Professor of Health Science
B.A. 1964, University of California, Riverside; M.A. 1970, California State University, Hayward; Ph.D. 1975, University of California, Berkeley.

Renate M. Nummela, 1978
Assistant Professor of Education

Ansa T. T. Ojanlatva, 1981
Lecturer in Health Science
M.S. 1975, University of Illinois; Ph.D. 1977, Southern Illinois University.

James S. Okon, 1981
Lecturer in Mathematics
B.S. 1974, University of California, Riverside; M.S. 1976, Michigan State University; Ph.D. 1980, University of California, Riverside.

Walter C. Oliver, 1969
Associate Professor of Spanish
B.A. 1963, New Mexico State University; M.A. 1966, Ph.D. 1970, University of New Mexico.

Theron Pace, 1969
Director, Services to Students with Disabilities
B.A. 1962, M.A. 1964, California State University, Fresno; Ph.D. 1967, University of Northern Colorado.

Elinore H. Partridge, 1981
Lecturer in English
B.A. 1958, University of Utah; M.A. 1963, New York University; Ph.D. 1970, University of California, Davis.

Mary G. Patterson, 1977
Professor of Nursing

Pola N. Patterson, 1978
Associate Librarian

Cynthia L. Paxton, 1979
Assistant Professor of Health Science
B.S. 1973, California State University, Chico; M.A. 1974, San Diego State University; Ph.D. 1979, University of Oregon.
Aurora T. Payad, 1981

Associate Professor of Administration
LL.B. 1959, Lyceum of the Philippines; M.P.A. 1967, University of the Philippines; M.P.A. 1972, Ph.D. 1975, University of Southern California.

Clifford T. Paynton, 1968

Professor of Sociology

Dennis M. Pederson, 1970

Professor of Chemistry
B.S. 1962, University of Puget Sound; Ph.D. 1968, Purdue University.

Ronald K. Pendleton, 1981

Assistant Professor of Education
B.A. 1964, California State College, Humboldt; M.A. 1978, California State University, Long Beach; Ph.D. 1981, Arizona State University.

James H. Penrod, 1981

Lecturer in Psychology

Stuart M. Persell, 1967

Professor of History

James De Fondo Person, 1976

Assistant Professor of Education

Ralph H. Petrucci, 1964

Professor of Chemistry; Dean of Academic Planning
B.S. 1950, Union College; Ph.D. 1954, University of Wisconsin.

Thomas J. Pierce, 1976

Associate Professor of Economics; Chair, Department of Economics
B.A. 1971, La Salle College; M.A. 1975, Ph.D. 1976, University of Notre Dame.

James C. Pierson, 1971

Professor of Anthropology

Lee Porter, 1981

Associate Professor of Education; Dean of Continuing Education
Robert E. Pratt, 1975
Associate Professor of Education
B.S. 1962, University of Minnesota; M.A. 1968, Arizona State University; Ph.D. 1974, University of Connecticut.

Gregory L. Price, 1971
Associate Professor of Physical Education and Recreation
B.S. 1969, Fort Hays Kansas State College; M.S. 1972, California State College, Long Beach; Ed.D. 1978, Brigham Young University.

Reginald L. Price, 1978
Professor of Physical Education and Recreation; Chair, Department of Physical Education and Recreation
B.S. 1964, MacMurray College; M.A. 1967, The Ohio State University; Ed.D. 1973, Oklahoma State University.

H. Stephen Prouty, Jr., 1964
Associate Dean, Admissions and Records
B.S. 1957, M.S. 1960, Kansas State University, Manhattan.

Johnnie Ann Ralph, 1971
Supervising Librarian

Richard H. Reeb, 1981
Lecturer in Political Science

Tom M. Rivera, 1972
Associate Dean, Educational Support Services

Neville Robbins, 1980
Lecturer in Mathematics

Robert R. Roberts, 1963
Professor of History

J. Cordell Robinson, 1971
Professor of History; Associate Vice President, Academic Affairs

James G. Rogers, 1974
Professor of Administration
Michael Rose, 1972
Relations with Schools Officer

Richard H. Rowland, 1975
Associate Professor of Geography; Chair, Department of Geography

Amanda Sue Rudisill, 1969
Professor of Theatre Arts
B.S. 1964, Millersville State College; M.A. 1966, Pennsylvania State University; Ph.D. 1972,
Northwestern University.

Barbara K. Rugeley, 1981
Assistant Librarian

Mireille G. Rydell, 1968
Professor of French
Licence 1950, University of Bordeaux; M.A. 1958, Ph.D. 1968, University of Minnesota.

Judith M. Rymer, 1970
Professor of Education
B.S. in Ed. 1961, Miami University; M.A. 1966, University of Kansas; Ph.D. 1970, The Ohio State
University.

Sudha Salemore, 1980
Assistant Professor of Education
B.S. 1967, University of Delhi, India; M.Ed. 1977, Ph.D. 1980, University of Idaho.

Richard S. Saylor, 1968
Professor of Music
B.S. 1950, B.M. 1955, Ithaca College; M.M. 1958, University of Michigan; D.M.A. 1966, Stanford
University.

Gerald M. Scherba, 1962
Professor of Biology; Vice President for Academic Affairs
B.S. 1950, M.S. 1952, Ph.D. 1955, University of Chicago.

Kent M. Schofield, 1966
Professor of History; Chair, Department of History
B.A. 1961, University of California, Riverside; M.A. 1962, Claremont Graduate School; Ph.D.
1966, University of California, Riverside.

Peter R. Schroeder, 1967
Associate Professor of English

Robert A. Schwabe, 1969
Director of Institutional Research
B.A. 1953, Denison University; M.A. 1958, Syracuse University; Ph.D. 1969, University of California, Riverside.
John A. Scribner, 1978
Lecturer in Administration

Robert A. Senour, 1970
Professor of Education; Director of Audiovisual Services
B.A. 1957, Ohio State University; M.Ed. 1966, Ph.D. 1970, Wayne State University.

David Shichor, 1976
Associate Professor of Sociology
B.A. 1962, Hebrew University; M.A. 1966, California State University, Los Angeles; Ph.D. 1970, University of Southern California.

Barbara Sirotnik, 1980
Assistant Professor of Administration

William L. Slout, 1968
Professor of Theatre Arts
B.A. 1949, Michigan State University; M.S. 1950, Utah State University; Ph.D. 1970, University of California, Los Angeles.

Alexander Sokoloff, 1965
Professor of Biology
A.B. 1948, University of California, Los Angeles; Ph.D. 1954, University of Chicago.

Doyle J. Stansel, 1966
Associate Dean, Student Services

Gordon E. Stanton, 1968
Professor of Education; Chair, Department of Teacher Education

Helena V. Stanton, 1977
Assistant Professor of Education

Robert G. Stein, 1967
Professor of Mathematics; Chair, Department of Mathematics
P. Richard Switzer, 1970
Professor of French
A.B. 1947, A.M. 1948, University of Chicago; Ph.D. 1955, University of California, Berkeley.

Edward C. Teyber, 1979
Assistant Professor of Psychology

James D. Thomas, 1968
Professor of Political Science; Dean of Academic Administration
B.S.F.S. 1955, Georgetown University; M.S. 1961, Ph.D. 1965, Claremont Graduate School.

Elton N. Thompson, 1968
Professor of Education
A.B. 1941, San Jose State College; M.A. 1949; Ed.D. 1967, Stanford University.

John Tibbals, 1968
Librarian
B.A. 1965, University of California, Santa Barbara; M.S. in L.S. 1966, University of Southern California.

Steven R. Wagner, 1974
Associate Professor of Education; Acting Chair, Department of Special Programs
B.A. 1964, San Jose State University; M.A. 1968, San Fernando Valley State College; Ph.D. 1973, Claremont Graduate School.

Carl P. Wagoner, 1969
Professor of Sociology
B.S. 1960, Ball State University; M.A. 1964, Ph.D. 1971, Indiana University.

Althea M. Waites, 1979
Assistant Professor of Music
B.S. 1962, Xavier University; M.M. 1965, Yale University.

William Warehall, 1973
Professor of Art

Lynda W. Warren, 1973
Associate Professor of Psychology
B.A. 1964, College of William and Mary; Ph.D. 1970, University of Minnesota.
Del LaVerne Watson, 1981
Professor of Nursing; Chair, Department of Nursing

George A. Weiny, 1967
Professor of Physical Education and Recreation
B.A. 1957, Iowa Wesleyan College; M.A. 1962, State University of Iowa.

Edward M. White, 1965
Professor of English

Bradford Wilson, 1981
Assistant Professor of Political Science

Edward M. White, 1965
Professor of English

Ruth C. Wilson, 1971
Professor of Biology; Chair, Department of Biology

Alvin Wolf, 1975
Associate Professor of Education
B.S. 1957, M.A. 1964, University of San Francisco; Ph.D. 1972, University of California, Berkeley.

Don Woodford, 1972
Professor of Art

Donald C. Woods, 1968
Counselor and Test Officer
B.A. 1943, University of California, Los Angeles; B.D. 1948, Garrett Theological Seminary; M.A. 1951, Ph.D. 1956, University of Chicago.

Thomas E. Woods, 1981
Lecturer in Education
B.A. 1948, University of California, Berkeley; M.S. 1952, San Francisco State University; Ed.D. 1957, Stanford University.

Donna M. Ziebarth
Associate Professor of Nursing
B.S.N. 1959, P.H.N. 1960, Mount St. Mary’s College; M.S. 1977, California State University, Los Angeles.

The above listing represents full-time faculty as of January, 1982, plus new appointments made before the Bulletin was printed.
EMERITUS FACULTY

Rene F. Dennemeyer, Professor of Mathematics, Emeritus, 1979
Robert G. Fisk, Professor of Education, Emeritus, 1973
Margaret K. Gibbs, Professor of Administration, Emeritus, 1980
John E. Hafstrom, Professor of Mathematics, Emeritus, 1979
Robert R. Harrison, Professor of Art, Emeritus, 1972
Charles V. Hartung, Associate Professor of English, Emeritus, 1977
Harold A. Jambor, Lecturer in Sociology, Emeritus, 1980
Bernhardt L. Mortensen, Associate Professor of Sociology, Emeritus, 1978
C. Michael O‘Cara, Professor of Physical Education, Emeritus, 1977
John M. Pfau, Professor of History; President, Emeritus, 1982
Robert A. Smith, Professor of History, Emeritus, 1982
Joseph K. Thomas, Vice President for Administration, Emeritus, 1982
Robert L. West, Professor of Education, Emeritus, 1980
Alice K. Wilson, Associate Librarian, Emeritus, 1982

SPECIAL APPOINTMENTS

Ann Aul, 1980
Studio Music Instructor
B.S. 1954, Western Reserve University

Edward P. Casem, 1967
Studio Music Instructor

Carol Cheek, 1981
Studio Music Instructor
B.A. 1972, Pacific Union College; M.M. 1974, University of Southern California.

Dennis Dockstader, 1978
Studio Music Instructor

Karlin Eby, 1976
Studio Music Instructor
B.A. 1957, University of Washington; M.M. 1963, University of Oregon.

Herbert Iverson, 1976
Studio Music Instructor

Lawrence Johansen, 1976
Studio Music Instructor
B.A. 1967, Fresno State University; M.M. 1972, University of Southern California.
James Keays, 1977

**Studio Music Instructor**

Catherine Graff MacLaughlin, 1976

**Studio Music Instructor**
B.A. 1962, University of California, Berkeley.

Sharon Millar, 1981

**Studio Music Instructor**
B.M. 1974, University of Toronto; M.M. 1979, University of Saskatchewan.

Victoria Shapiro, 1967

**Studio Music Instructor**
Diploma 1947, B.S. in Viola 1949, Juilliard School of Music.

William E. Stanford, 1980

**Studio Music Instructor**
B.M. 1973, University of Redlands; M.A. 1976, California State University, Fullerton.

Michael Tseitlin, 1980

**Studio Music Instructor**
M.M. 1974, Moscow Conservatory.

Armen Turadian, 1977

**Studio Music Instructor**
B.M. 1949, Oberlin College; M.M. 1951, University of Southern California.
Institutional and Financial Assistance Information

The following information concerning student financial assistance may be obtained from Ted Krug, director of financial aid, Room 143, Student Services Building, phone 887-7741:

1. Student financial assistance programs available to students who enroll at California State College, San Bernardino;
2. The method by which such assistance is distributed among student recipients who enroll at California State College, San Bernardino;
3. The means, including forms, by which application for student financial assistance is made; the requirement for accurately preparing such applications;
4. The rights and responsibilities of students receiving financial assistance; and
5. The standards which the student must maintain in order to be considered to be making satisfactory progress for the purpose of establishing and maintaining eligibility for financial assistance.

The following information concerning the cost of attending California State College, San Bernardino is available from Ted Krug, director of financial aid, Room 143, Student Services Building, phone 887-7741. This information includes:

1. Fees and tuition (where applicable);
2. Estimated costs of books and supplies;
3. Estimates of typical student room and board costs or typical commuting costs; and
4. Any additional costs of the program in which the student is enrolled or expresses a specific interest.

Information concerning the refund policy of California State College, San Bernardino for the return of unearned tuition and fees or other refundable portions of costs is available from Don Sapronetti, accounting officer, Room 115, Administration Building, phone 887-7501.

Information concerning the academic programs of California State College, San Bernardino may be obtained from Dr. Ralph H. Petrucci, dean of academic planning, Room 196, Administration Building, phone 887-7521. This information may include:

1. The current degree programs and other educational and training programs;
2. The instructional, laboratory and other physical plant facilities which relate to the academic program;
3. The faculty and other instructional personnel;
4. Data regarding student retention at California State College, San Bernardino and, if available, the number and percentage of students completing the program in which the student is enrolled or expresses interest; and
5. The names of associations, agencies, or governmental bodies which accredit, approve, or license the institution and its programs, and the procedures under which any current or prospective student may obtain or review upon request a copy of the documents describing the institution’s accreditation, approval, or licensing.

Information regarding special facilities and services available to handicapped students may be obtained from Dr. Theron Pace, director of Services to Students with Disabilities, Room 107, Library Building, phone 887-7662.
Determination of Residence

The college Admissions Office determines the residence status of all new and returning students for nonresident tuition purposes. Responses to items 29-45 on the Application for Admission and, if necessary, other evidence furnished by the student are used in making these determinations. A student who fails to submit adequate information to establish a right to classification as a California resident will be classified as a nonresident.

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 laws governing residence determination for tuition purposes by The California State University are found in Education Code Sections 68000–68090, 90403, 89705–89707.5, 68124 and 68121, 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 an adult who is physically present in the state while, at the same time, intending to make California his permanent home. Steps must be taken at least one year prior to residence determination date to show an intent to make California the permanent home with concurrent relinquishment of the prior legal residence. The steps necessary to show California residency intent will vary from case to case. Included among the steps may be registering to vote and voting in elections in California; filing resident California state income tax returns on total income; ownership of residential property or continuous occupancy or renting 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.

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

In general, the unmarried minor (a person under 18 years of age) derives legal residence from his parents, or, in the case of permanent separation of the parents, from the parent with whom the minor maintains his 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.

Nonresident students seeking reclassification are required by law to complete a supplemental questionnaire concerning financial independence.

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.

Residence determination dates for 1982–83 academic year are:

<table>
<thead>
<tr>
<th>Quarter term campuses</th>
<th>Semester term campuses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Fall</td>
</tr>
<tr>
<td>September 20</td>
<td>September 20</td>
</tr>
<tr>
<td>Winter</td>
<td>Winter</td>
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<tr>
<td>January 5</td>
<td>January 5 (Stanislaus only)</td>
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<tr>
<td>Spring</td>
<td>Spring</td>
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<tr>
<td>April 1</td>
<td>January 25</td>
</tr>
<tr>
<td>Summer</td>
<td>July 1</td>
</tr>
</tbody>
</table>

Questions regarding residence determination dates should be directed to the Admissions Office. There are several exceptions for nonresident tuition. Some of them provide for:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student who remained 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 have been entirely self-supporting for that period of time.

3. Persons below the age of 19 who have lived with and have 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, once attained, is not affected by transfer of the military person outside the state.

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 about his residence classification by the campus, only may make written appeal to: The California State University, Office of General Counsel, 400 Golden Shore, Long Beach, CA 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 campus for a further review. Students classified incorrectly as residents or incorrectly granted an exception from nonresident tuition are subject to recategorization 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 changes, must immediately notify the Admission 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.

The Consortium of The California State University

The Consortium of the CSU—‘‘The 1,000-Mile Campus’’—is a separate, fully accredited, degree-granting entity of the CSU. It draws on the combined resources of the 19 campuses to offer external statewide and regional degree, certificate and teaching credential programs.

The Consortium was established in 1973 to meet the needs of adults who find it difficult or impossible to participate in regular on-campus programs. Instruction is thus provided in convenient places at convenient times. Currently, programs are offered in more than 20 geographic areas throughout California.

Full- and part-time CSU faculty, as well as qualified experienced practitioners, go where the students are, or provide opportunities for individualized home study. Programs can be tailored to meet the specific needs of employees in business, industry, education or government.

Consortium programs are upper-division or graduate level. All courses offer residence credit leading to bachelor’s or master’s degrees. Credit and course work are transferable statewide. Programs are financed by student fees.

Academic policy for the Consortium is established by the statewide Academic Senate of the CSU. Degrees or certificates are awarded by the Consortium in the name of the Board of Trustees of the CSU. The Consortium is accredited by the Western Association of Schools and Colleges.

For more information contact: The Consortium of The California State University, 400 Golden Shore, Long Beach, CA 90802; (213) 590-5696.

The statewide Admissions and Records Office may be reached by dialing the following local numbers: Sacramento, (916) 445-5864; San Francisco, (415) 469-1355; Los Angeles, (213) 498-4119; San Diego, (714) 265-4775.
Eligibility Index

The following chart is used in determining the eligibility of graduates of California high schools (or California legal residents) for freshman admission to a State University or College. Grade-point averages are based on work completed in the last three years of high school, exclusive of physical education and military science. Scores shown are the SAT total and the ACT composite. Students with a given GPA must present the corresponding test score. Conversely, students with a given ACT or SAT score must present the corresponding CPA in order to be eligible.

The minimum eligibility index is: SAT = 3072 and ACT = 741. The index is computed either by multiplying the grade-point average by 800 and adding it to the total SAT score, or multiplying the grade-point average by 200 and adding it to 10 times the composite ACT score.

<table>
<thead>
<tr>
<th>GPA Score</th>
<th>ACT Score</th>
<th>SAT Score</th>
<th>GPA Score</th>
<th>ACT Score</th>
<th>SAT Score</th>
<th>GPA Score</th>
<th>ACT Score</th>
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1 Students earning grade-point averages above 3.20 are eligible for admission.
2 Students earning grade-point averages below 2.0 are not eligible for admission.
Inappropriate conduct by students or applicants for admission is subject to discipline as provided in Sections 41301 through 41304 of Title 5, California Administrative Code. These sections are as follows:

41301. Expulsion, Suspension and Probation of Students; Fees and Notification. The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301.8. No fees or tuition paid by or for such students for the semester, quarter or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension. In the event that a student who has not reached his or her eighteenth birthday and who is a dependent of his or her parent(s) as defined in Section 152 of the Internal Revenue Code of 1954 is suspended or expelled, the President shall notify his or her parent or guardian of the action by registered mail to the last known address, return receipt requested.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures,
and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University and Colleges other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

41303. Conduct by Applicants for Admission. Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Sections 41301 or 41302. Admission or readmission may be qualified or denied to any person who, while a student, commits acts which are subject to disciplinary action pursuant to Section 41301 or Section 41302. Qualified admission or denial of admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

41304. Student Disciplinary Procedures for the California State University and Colleges. The Chancellor shall prescribe, and may from time to time revise, a code of student disciplinary procedures for the California State University and Colleges. Subject to other applicable law, this code shall provide for determinations of fact and sanctions to be applied for conduct which is a ground of discipline under Sections 41301 or 41302, and for qualified admission or denial of admission under Section 41303; the authority of the campus President in such matters; conduct related determinations of financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a Hearing Officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The Chancellor shall report to the Board his actions taken under this section.

Pursuant to Sections 41301 and 41302 in Article 1, Subchapter 3, Chapter 5, Title 5 of the California Administrative Code, President John M. Pfau hereby declares that any sit-in or other form of demonstration within a building at California State College, San Bernardino will be considered a violation of this code.

Board of Trustees Policy Relating to Conduct on State College Campuses

The following restatement of policy of the Board of Trustees of the California State Colleges is extracted from a resolution approved by the Board of November 1968.

RESOLVED, By the Board of Trustees of California State Colleges, that this Board recognizes the need for a clear understanding of those types of behavior considered wholly unacceptable within the College Community; and be it further

RESOLVED, That this Board wishes to indicate to staff, students, and visitors alike that any of the following violations of orderly conduct are to be considered cause for prompt and diligent corrective action on the part of appropriate officials, including college disciplinary proceedings and the bringing of criminal charges where appropriate:

1. Obstruction or disruption of any authorized state college activity, including those of auxiliary organizations, whether on state college property or at any location then controlled by a state college.

2. Obstruction of either pedestrian or vehicular traffic on state college owned or controlled property.

3. Physical abuse or detention of any member of the college community at any location or of any other person while that person is a visitor on state college owned or controlled property.

4. Theft of or damage to state college property or property of any person while that property is on state college owned or controlled property.

5. Conduct which endangers the health or safety of any person while on state college owned or controlled property or at any college sponsored or supervised function.

6. Unauthorized entry to or use of any state college facilities, including buildings, grounds and equipment.

7. Failure to comply with directions of college police and any other law enforcement officers while they are acting in the performance of their duties.

8. Illegal possession or use of firearms, explosives, dangerous chemicals or other weapons on state college owned or controlled property.

9. Failure to comply with directions of a State College President or his authorized designee(s) while acting in the performance of his (their) duties.
10. Disorderly conduct, breach of the peace, and aiding, abetting or procuring another to breach the peace on state college owned or controlled property or at any state college sponsored or supervised functions; and be it further

RESOLVED, That this resolution is not to be construed as superseding any additional violations as specified by law, the administrative code, the resolutions of this Board, or the rules of any particular college.

Nondiscrimination Policy

Sex
The California State University does not discriminate on the basis of sex in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972, as amended, and the administrative regulations adopted thereunder prohibit discrimination on the basis of sex in education programs and activities operated by California State College, San Bernardino. Such programs and activities include admission of students and employment. Inquiries concerning the application of Title IX to programs and activities of California State College, San Bernardino may be referred to Dr. James D. Thomas, dean of academic administration, or Dr. Kenton L. Monroe, dean of students, the campus officers assigned the administrative responsibility of reviewing such matters or to the Regional Director of the Office of Civil Rights, Region 9, 1275 Market Street, 14th Floor, San Francisco, CA 94103.

Handicap
The California State University does not discriminate on the basis of handicap and is in compliance with Section 504 of the Rehabilitation Act of 1973, as amended, and the regulations adopted thereunder. More specifically, The California State University does not discriminate in admission or access to, or treatment or employment in, its programs and activities. Dr. James D. Thomas, dean of academic administration, and Dr. Kenton L. Monroe, dean of students, have been designated to coordinate the efforts of California State College, San Bernardino to comply with the Act and its implementing regulations. Inquiries concerning compliance may be addressed to these persons at 5500 State College Parkway, San Bernardino, CA 92407, (714) 887-7201.

Race, Color or National Origin
The California State University complies with the requirements of Title VI of the Civil Rights Act of 1964 and the regulations adopted thereunder. No person shall, on the grounds of race, color or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program of The California State University.

Sexual Harassment
It is the policy of California State College, San Bernardino to maintain a working and learning environment free from sexual harassment of its students, employees and those who apply for student and employee status. Questions regarding sexual harassment should be addressed to Ms. Sandra Lyn Jensen, personnel officer, or Dr. James D. Thomas, dean of academic administration.
Average Annual Costs and Sources of Funds

The 19 campuses and the Chancellor's Office of The California State University are financed primarily through funding provided by the taxpayers of California. Including capital outlay, the CSU 1981–82 budget totals approximately $1.17 billion. Approximately $1.15 billion of the $1.17 billion total has been budgeted to provide support for a projected 236,850 full-time equivalent (FTE*) students. Thus, excluding costs which relate to capital outlay and the Energy and Resources Fund (e.g., building amortization), the average cost per FTE student is $4,873 per year. Of this amount, the average student pays $492. Included in this average student payment calculation is the amount paid by nonresident students. The remaining $4,381 in costs is 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:

<table>
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<th>Funding Source</th>
<th>Amount</th>
<th>Average cost per student (FTE*)</th>
<th>Percentage</th>
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<tr>
<td>State Appropriation (Support)</td>
<td>$981,299,661</td>
<td>$4,143</td>
<td>85.0%</td>
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<tr>
<td>Student Charges</td>
<td>116,630,975</td>
<td>492*</td>
<td>10.1%</td>
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<tr>
<td>Federal (Financial Aids)</td>
<td>56,270,430</td>
<td>238</td>
<td>4.9%</td>
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<tr>
<td>State Funding (Capital Outlay and Energy and Resources Fund)</td>
<td>16,725,460</td>
<td>***</td>
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<td><strong>TOTAL 1981–82 CSU BUDGET</strong></td>
<td>$1,170,926,526</td>
<td>$4,873</td>
<td>100.0%</td>
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* 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 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 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 $492 depending on whether they are part-time, full-time, resident or nonresident students.

*** Not included in the average cost per student (FTE), and percentage columns. The estimated replacement cost of all the system's permanent facilities and equipment on the 19 campuses is currently valued at $3.6 billion, excluding the cost of land.
The Student Services Fee

The student services fee provides financing for the following student services programs not covered by state funding:

1. Social and cultural development activities: 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 plus related clerical and technical personnel as well as operating expenses and equipment.
7. Housing: includes the cost of personnel providing housing information and monitoring housing services provided to students.
8. Student services administration: covers 50% of the cost of the Dean of Students Office which has responsibility for the overall administration of student services.

Refund of Fees

Details concerning fees which may be refunded, the circumstances under which fees may be refunded and the appropriate procedure to be followed in seeking refunds may be obtained by consulting Section 41803 (parking fees), 41913 (nonresident tuition), 42019 (housing charges) and 41802 (all other fees) of Title 5, California Administrative Code. In all cases it is important to act quickly in applying for a refund. Information concerning any aspect of the refund of fees may be obtained from the Business Office.

Procedure for Establishment or Abolishment of Student Body Fee

The law governing The California State University provides that a student body fee may be established by student referendum with the approval of two-thirds of those students voting. The student body fee was established at California State College, San Bernardino by student referendum on February 15, 1966. The same fee can be abolished by a similar two-thirds approval of students voting on a referendum called for by a petition signed by 10% of the regularly enrolled students (Education Code, Section 89300). The level of the fee is set by the chancellor upon recommendation by the campus. Student body fees support a variety of cultural and recreational programs, child care centers and special student support programs.
Privacy Rights of Students in Education Records

The federal Family Education Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (45 C.F.R. 99) and California Education Code Section 67100 et seq., set out requirements designed to protect the privacy of students concerning their records maintained by the campus. Specifically, the statute and regulations govern: 1) access to students records maintained by the campus, and 2) the release of such records.

In brief, the law 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 law does not include any right to challenge the appropriateness of a grade as determined by the instructor. The law 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. The institution has adopted a set of policies and procedures concerning implementation of the statutes and the regulations on the campus. Copies of these policies and procedures may be obtained at the Dean of Students Office. Among the types of information included in the campus statement of policies and procedures are: 1) the types of student records and the information contained therein; 2) the official responsible for the maintenance of each type of record; 3) the location of access lists which indicate persons requesting or receiving information from the record; 4) policies for reviewing and expunging records; 5) the access rights of students records; 7) the cost which will be charged for reproducing copies of records, and 8) the right of the student to file a complaint with the Department of Health, Education and Welfare. An office and review board have been established by the Department to investigate and adjudicate violations and complaints. The office designated for this purpose is: The Family Educational Rights and Privacy Act Office (FERPA), Department of Education, 330 C St., Room 4511, Washington, D.C. 20202.

The campus is authorized under the act to release to the 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, class schedule information, 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 prior written objection from the student specifying information which the student requests not be released. Written objections should be sent to the Dean of Students Office.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons are those who have responsibilities in connection with the campus' academic, administrative or service functions and who have reason for using student records connected with their campus or other related academic responsibilities.

Changes in Rules and Policies

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

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