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.

Inquiries about admission to the college should be directed to Associate Dean of Admissions, (714) 887-7301; 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.
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</table>
# Calendar

## 1979–80

### FALL TERM

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Sept. 10</td>
<td>Beginning of the academic year</td>
</tr>
<tr>
<td>Sept. 11–14</td>
<td>Orientation of new students</td>
</tr>
<tr>
<td>Sept. 13–14</td>
<td>Advising</td>
</tr>
<tr>
<td>Sept. 17–18</td>
<td>Registration</td>
</tr>
<tr>
<td>Sept. 20</td>
<td>Classes begin; late registration</td>
</tr>
<tr>
<td>Sept. 26</td>
<td>Last day to add classes</td>
</tr>
<tr>
<td>Oct. 10</td>
<td>Last day to drop classes</td>
</tr>
<tr>
<td>Oct. 11</td>
<td>Last day to file graduation check; for March graduation; see page 69</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>Nov. 15–16</td>
<td>Advising</td>
</tr>
<tr>
<td>Nov. 19–21</td>
<td>Thanksgiving holiday</td>
</tr>
<tr>
<td>Nov. 30</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>Dec. 3–6</td>
<td>Final examinations</td>
</tr>
<tr>
<td>Dec. 24–25</td>
<td>Christmas holiday</td>
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### WINTER TERM

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<tr>
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<tbody>
<tr>
<td>Jan. 1</td>
<td>New Year's Day holiday</td>
</tr>
<tr>
<td>Jan. 2–3</td>
<td>Registration</td>
</tr>
<tr>
<td>Jan. 7</td>
<td>Classes begin; late registration</td>
</tr>
<tr>
<td>Jan. 11</td>
<td>Last day to add classes</td>
</tr>
<tr>
<td>Jan. 25</td>
<td>Last day to drop classes</td>
</tr>
<tr>
<td>Jan. 28</td>
<td>Last day to file graduation check; for June, July and August</td>
</tr>
<tr>
<td></td>
<td>graduation; see page 69</td>
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<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>March 3–7</td>
<td>Advising</td>
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<tr>
<td>March 14</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>March 17–20</td>
<td>Final examinations</td>
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### 1979

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### 1980

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<table>
<thead>
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<td>16 17 18</td>
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<td>23 24 25</td>
<td>26 27 28 29</td>
</tr>
<tr>
<td>30</td>
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</tr>
</tbody>
</table>
SPRING TERM
March 27–28  Registration
March 31  Classes begin; late registration
April 4  Last day to add classes
April 18  Last day to drop classes
April 21  Last day to file graduation check for December graduation; see page 69
May 26  Memorial Day holiday
June 9  Last day of classes
June 10–13  Final examinations
June 14  Commencement

SUMMER SESSIONS
June 16  Registration
June 18  Classes begin for regular session
July 4  Independence Day holiday
July 22  Classes end for regular session
July 25  Registration for post session
July 28  Classes begin for post session
Aug. 15  Classes end for post session

FALL TERM 1980
Sept. 15  Beginning of the academic year
Sept. 16–19  Orientation of new students
Sept. 18–19  Advising
Sept. 22–23  Registration
Sept. 25  Classes begin; late registration
Oct. 1  Last day to add classes
Oct. 15  Last day to drop classes
Oct. 16  Last day to file graduation check for March graduation; see page 69
Nov. 20–21,
24–26  Advising
Nov. 27–28  Thanksgiving holiday
Dec. 5  Last day of classes
Dec. 8–11  Final examinations
Dec. 25–26  Christmas holiday

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

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.

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

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

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

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

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

Enrollments in fall 1978 totaled more than 300,000 students, taught by a faculty of 17,500. Last year the system awarded more than 53 percent of the bachelor's degrees and 33 percent of the master's degrees granted in California. More than 700,000 persons have been graduated from the campuses since 1960.
The California State University and Colleges

<table>
<thead>
<tr>
<th>College</th>
<th>Address</th>
<th>City, State</th>
<th>President</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>California State College, Bakersfield</td>
<td>9001 Stockdale Highway</td>
<td>Bakersfield, California 93309</td>
<td>Dr. Jacob P. Frankel</td>
<td>(805) 833-2011</td>
</tr>
<tr>
<td>California State University, Chico</td>
<td>1st and Normal Streets</td>
<td>Chico, California 95929</td>
<td>Dr. Stanford Cazier</td>
<td>(916) 895-5011</td>
</tr>
<tr>
<td>California State University, Dominguez Hills</td>
<td>Carson, California 90747</td>
<td>Carson, California 90747</td>
<td>Dr. Donald R. Gerth</td>
<td>(213) 515-3300</td>
</tr>
<tr>
<td>California State University, Fresno</td>
<td>Shaw and Cedar Avenues</td>
<td>Fresno, California 93740</td>
<td>Dr. Norman A. Baxter</td>
<td>(209) 487-9011</td>
</tr>
<tr>
<td>California State University, Fullerton</td>
<td>Fullerton, California 92634</td>
<td>Fullerton, California 92634</td>
<td>Dr. L. Donald Shields</td>
<td>(714) 870-2011</td>
</tr>
<tr>
<td>California State University, Hayward</td>
<td>Hayward, California 94542</td>
<td>Hayward, California 94542</td>
<td>Dr. Ellis E. McCune</td>
<td>(415) 881-3000</td>
</tr>
<tr>
<td>Humboldt State University</td>
<td>Arcata, California 95521</td>
<td>Arcata, California 95521</td>
<td>Dr. Alistair W. McCrone</td>
<td>(707) 826-3011</td>
</tr>
<tr>
<td>California State University, Long Beach</td>
<td>1250 Bellflower Boulevard</td>
<td>Long Beach, California 90840</td>
<td>Dr. Stephen Horn</td>
<td>(213) 498-4111</td>
</tr>
<tr>
<td>California State University, Los Angeles</td>
<td>5151 State University Drive</td>
<td>Los Angeles, California 90032</td>
<td>Dr. John A. Greenlee</td>
<td>(213) 224-0111</td>
</tr>
<tr>
<td>California State University, Northridge</td>
<td>18111 Nordhoff Street</td>
<td>Northridge, California 91330</td>
<td>Dr. James W. Cleary</td>
<td>(213) 885-1200</td>
</tr>
<tr>
<td>California State Polytechnic University, Pomona</td>
<td>3801 West Temple Avenue</td>
<td>Pomona, California 91768</td>
<td>Dr. Hugh O. LaBounty, Jr.</td>
<td>(714) 598-4592</td>
</tr>
<tr>
<td>California State University, Sacramento</td>
<td>6000 J Street</td>
<td>Sacramento, California 95819</td>
<td>Dr. W. Lloyd Johns</td>
<td>(916) 454-6011</td>
</tr>
<tr>
<td>California State College, San Bernardino</td>
<td>5500 State College Parkway</td>
<td>San Bernardino, California 92407</td>
<td>Dr. John M. Pfau</td>
<td>(714) 887-7201</td>
</tr>
<tr>
<td>San Diego State University</td>
<td>5300 Campanile Drive</td>
<td>San Diego, California 92182</td>
<td>Dr. Thomas B. Day</td>
<td>(714) 286-5000</td>
</tr>
<tr>
<td>Imperial Valley Campus</td>
<td>720 Heimber Avenue</td>
<td>Calexico, California 92231</td>
<td></td>
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<tr>
<td>San Francisco State University</td>
<td>1600 Holloway Avenue</td>
<td>San Francisco, California 94132</td>
<td>Dr. Paul F. Romberg</td>
<td>(415) 469-2141</td>
</tr>
<tr>
<td>San Jose State University</td>
<td>125 South Seventh Street</td>
<td>San Jose, California 95192</td>
<td>Dr. Gail Fullerton</td>
<td>(408) 277-2000</td>
</tr>
<tr>
<td>California Polytechnic State University, San Luis Obispo</td>
<td>San Luis Obispo, California 93407</td>
<td>San Luis Obispo, California 93407</td>
<td>Dr. Dale W. Andrews</td>
<td>(805) 546-0111</td>
</tr>
<tr>
<td>Sonoma State University</td>
<td>1801 East Cotati Avenue</td>
<td>Rohnert Park, California 94928</td>
<td>Dr. Peter Diamandopoulos</td>
<td>(707) 664-2156</td>
</tr>
<tr>
<td>California State College, Stanislaus</td>
<td>800 Monte Vista Avenue</td>
<td>Turlock, California 95380</td>
<td>Dr. A. Walter Olson</td>
<td>(209) 633-2122</td>
</tr>
</tbody>
</table>
TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY AND COLLEGES

EX OFFICIO TRUSTEES

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

Mike Curb
Lieutenant Governor of California
State Capitol, Sacramento 95814

Leo McCarthy
Speaker of the Assembly
State Capitol, Sacramento 95814

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

Dr. Clenn S. Dumke
Chancellor of the California State University and Colleges
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
9220 Sunset Boulevard, Los Angeles 90069

Wendell W. Witter, 1979
45 Montgomery Street, San Francisco 94106

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

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

Frank P. Adams, 1981
235 Montgomery Street, Suite 1922
San Francisco 94104

Richard A. Garcia, 1979
31851 E. Nine Dr., Laguna Nigel 92677

Dean S. Lesher, 1981
P.O. Box 5166, Walnut Creek 94598

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

Dr. Mary Jane Pew, 1983
2021 N. Western Ave., Los Angeles 90027

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, 1980
Bechtel Corp., P.O. Box 3965
San Francisco 94119

Ms. Blanche C. Bersch, 1984
10889 Wilshire Blvd., Suite 628
Los Angeles 90024

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

Eli Broad, 1986
10801 National Blvd., Los Angeles 90064

Kevin Gallagher, 1980
California State College, San Bernardino
5500 State College Parkway
San Bernardino 92407
OFFICERS OF THE TRUSTEES

President: Governor Brown
Chair: Mr. Brophy
Vice Chair: Dr. Hampton
Secretary-Treasurer: Dr. Dumke

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

Chancellor: Dr. Glenn S. Dumke
Executive Vice Chancellor: Harry Harmon
Vice Chancellor, Academic Affairs: Dr. Alex C. Sherriffs
Vice Chancellor, Business Affairs: D. Dale Hanner
Vice Chancellor, Faculty and Staff Affairs: Dr. Marjorie Downing Wagner
General Counsel: Mayer Chapman
CALIFORNIA STATE COLLEGE,
SAN BERNARDINO

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Verne F. Potter
Chairman
San Bernardino

Mrs. Luella M. Cohen (Theodore M.)
Vice Chairman
San Bernardino

Robert J. Bierschbach
Redlands

Charles R. Ford
Riverside

Mrs. Regina Garza (Florentino)
San Bernardino

Harold C. Harris, Jr.
San Bernardino

William Honeysett
Redlands

George M. Hubbard
Riverside

Mrs. Barbara R. Leonard (William E.)
San Bernardino

Robert J. Mitton
San Bernardino

Eliseo G. Ruiz
San Bernardino

Dr. Wayne Scott
San Bernardino
CALIFORNIA STATE COLLEGE,
SAN BERNARDINO

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President: John M. Pfau, Ph.D.

Vice President for Academic Affairs: Gerald M. Scherba, Ph.D.
  Associate Dean of Academic Affairs:
  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.
  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: Stephen A. Bowles, Ph.D.
  Dean, School of Administration: H. Arthur Hoverland, Ph.D.
  Dean, School of Education:
  Dean, School of Humanities:
  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.
    Manager, Computer Center: Frank Slaton, M.S.

Vice President for Administration: Joseph K. Thomas, Ed.D.
  Director of Plant Operations: James H. Urata, M.A.
  Director of Public Affairs: Edna Steinman, B.J.
  Public Affairs Assistant, College Relations: Barbara Nolte, A.A.

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.
    Relations with Schools Officer: Michael M. Rose, M.A.
Associate Dean, Counseling Services: John M. Hatton, Ph.D.
Counselor and Test Officer: Donald C. Woods, Ph.D.
Counselor: Martha P. Kazlo, Ph.D.
Director, Learning Resource Center: Dianne Irwin, Ph.D.
Learning Resource Center Advisor: Dianna Pelletier, M.A.
Director, Placement: Paul Esposito, Ed.D.
Placement Counselor: L. Theron Pace, Ph.D.
Placement Advisor: Nancy Pemberton, M.A.
Associate Dean, Special Services: Tom M. Rivera, Ed.D.
Director/Teacher, Children's Center:
Disabled Student Services Coordinator: Elizabeth Kennedy, B.A.
Director, Educational Opportunity Program Supportive Services:
   Walter Hawkins, M.S.W.
Outreach Coordinator: Laura Gomez, M.A.
Director, Upward Bound: John Chesney, M.A.
Veterans Services Coordinator:
Associate Dean, Student Services: Doyle J. Stansel, M.A.
Director, Activities: Jeanne Hogenson, M.A.
Activities/Student Union Coordinator: Richard J. Bennecke, M.A.
Activities Advisor: Roberta A. Stathis-Ochoa, B.A.
Director, Financial Aid: Theodore Krug, M.A.
Financial Aid Advisor: Rita Cohn, B.A.
Financial Aid Advisor: Nicholas Pencoff, B.A.
Housing Coordinator: Craig Henderson, Ph.D.
Head Resident:
Director, Student Health Service: Ross Ballard, M.D.
Medical Officer: James R. Savage, M.D.
Supervising Nurse: N. Vivian McEachern, R.N., N.P.
Nurse: Lois Ljunggren, R.N.
Director, Department of Public Safety: Michael A. Gomez, A.A.
Sergeant: Arthur M. Butler, B.A.
Sergeant: Richard Nunez, A.A.

Business Manager: Leonard B. Farwell, M.B.A.
Accounting Officer: Donald E. Saponetti, B.A.
Budget Officer: Jim G. Martinez, B.A.
Personnel Officer: Oscar Jackson, B.A.
Support Services Officer: Janice L. Lemmond, B.A.
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 just under 300 students. During its initial phase of development, the College focused upon a strong liberal arts curriculum, which by 1978 had been expanded to 36 baccalaureate degree programs, several teaching credential fields and various options within seven master's degree programs. Enrollment had topped 4,000.

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. 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 studies 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.

Baccalaureate Degree Programs

In the 1979-80 academic year, the College will offer bachelor's degree programs in the following fields (majors):

School of Administration
  Administration B.A./B.S.

School of Humanities
  Art B.A.
  English B.A.
  French B.A.
  Humanities B.A.
  Music B.A.
  Philosophy B.A.
  Spanish B.A.
  Theatre Arts B.A.

School of Natural Sciences
  Biology B.A./B.S.
  Chemistry B.A./B.S.
  Health Science B.S.
  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.
Graduate Programs

In the 1979–80 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, early childhood education, special education and bilingual/cross-cultural education)
- 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, child development, criminal justice, education, geography, political science 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 experimental course called Words and Ideas (Interdisciplinary Studies 100A 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; French 420 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, and a scanning electron microscope.

**The College Library**

The College Library consists of a general collection of 300,000 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.

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 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 25 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 Computer Lab, located in the basement of the Library. Terminals, printers and keypunches are available in the lab along with consultants to assist student users. Other terminals are located in various departments throughout the campus.

The computer systems available on campus are a Digital Equipment Corporation PDP 11/45 timesharing minicomputer and a Honeywell batch computer. Access to two centrally located computer systems, a Control Data Corporation (CDC) CYBER 174 for timesharing and a family of three CDC central processing units for batch, 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 has developed a wide variety of services to assist the student in most academic areas. Personal assistance and direction are now available in virtually every area of study and in the following programs:

- Tutoring for basic classes, algebra, statistics, foreign languages, and the research and writing of papers.
- A self-paced, individually designed program to develop study skills (listening/notetaking, time management, memory devices, exam taking, reading, library skills and use of the dictionary).
- Multimedia delivery of self-instructional programs for vocabulary, spelling, grammar, reading (speed and comprehension), basic math, algebra, statistics and accounting.
- Cassette and video tapes of specific classes and foreign languages.

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 and Colleges offers opportunities for students to pursue their studies at a distinguished foreign university or special program center. Under the auspices of the CSUC Office of International Programs, participants in this program are concurrently enrolled at their home campus, where they earn academic credit and maintain campus residency, and at an overseas institution of higher education.

Cooperating universities abroad include the University of Provence, France; the Universities of Heidelberg and Tübingen, Germany; the Hebrew University of Jerusalem in Israel; the University of Florence, Italy; the Universidad Ibero-Americana, Mexico; the Universidad Católica, Peru; the Universities of Granada and Madrid, Spain; the University of Uppsala, Sweden; Lincoln University College of Agriculture and Massey University, New Zealand; and Waseda University of Japan.

In the United Kingdom, cooperating universities (which may vary from year to year) include, among others, Aberdeen, Edinburgh, Bangor, Heriot-Watt, Leicester, London, Manchester, Oxford, Liverpool, Lampeter, Sheffield, and Strathclyde. In addition, CSUC students may attend a special program in Taiwan, Republic of China, or an architectural program in Copenhagen, Denmark.

Eligibility for application is limited to those students who will have upper-division or graduate standing by September 1980 at a CSUC campus; who have demonstrated the ability to adapt to a new cultural environment; and who, in the cases of France, Germany, Mexico, Peru and Spain, will have completed at least two years of college-level study in the language of instruction at the host university, or possess equivalent knowledge of the language. At the time of application, students must have a minimum cumulative grade-point average for all college-level work of 2.75, except for the programs in Israel, New Zealand, Peru and the United Kingdom where a minimum GPA of 3.0 is required. Selection is competitive and is based on home-campus recommendations and the applicant’s academic record. Final selection decisions are made by a statewide committee of faculty members, except for the programs in New Zealand and the United Kingdom where final selections are made by the host universities.

The International Programs supports all tuition and other academic 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 costs for pre-departure orientation, insurance, transportation, housing and meals. Home campus registration and other fees and personal incidental expenses or vacation travel costs while abroad are also paid by the student. Nonresident students are subject to nonresident fees.

The Office of International Programs collects and administers funds for those items which the program must arrange or can negotiate more effectively, such as home campus fees, orientation costs, insurance, outbound transportation and, in some centers, housing. International Programs participants may apply for any financial aid available at their home campuses, except for campus work-study.

Applications for the 1980–81 academic year must be submitted before February 9, 1980, except for New Zealand and the United Kingdom. Applications for the New Zealand program must be submitted by May 11, 1980, for participation during calendar year 1981. (The academic year in New Zealand begins in
February and ends in October.) United Kingdom applications must be submitted by January 5, 1980.

Detailed information and application materials may be obtained from Dr. Richard H. Rowland on campus. Further information may also be obtained by writing to The California State University and Colleges International Programs, 400 Golden Shore, Suite 300, Long Beach, CA 90802.

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 and Colleges 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 College Relations Office.
STUDENT LIFE

Housing

Since its opening in 1972, Serrano Village, the College’s on-campus residential facility, has become a focal point of student life. 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, ping-pong table, 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 $1650 per year in 1979–80. 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 an executive branch (AS Cabinet) and a legislative branch (AS Senate). AS sponsors an off-campus child care center, book co-op, newspaper, check cashing, emergency loan program and various other student-initiated services.
The College also sponsors another activity, "Escape" (outdoor leisure program). This program 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 Building is the "living room" of the campus. Students are encouraged to participate in the many programs sponsored by the Union. The Union has recreational game rooms, a snack bar, lounge and meeting rooms for student organizations and provides a warm atmosphere for recreational and social activities. Some of the programs offered in the Union include film series, lectures, dances and a variety of other activities geared for today's student.

Intramurals

The intramural program provides an opportunity for each member of the college community to participate in organized recreational sports activity.

The program is "fun-oriented" and skill is not a prerequisite.

A comprehensive schedule of events is planned each year, which includes: badminton, basketball, bowling, flag football, racquetball, skiing, softball, swimming, tennis and volleyball. Additional activities will be offered to meet varying student interests.

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 open daily for recreational enjoyment. All students are encouraged to make use of the gymnasium, courts, playing 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, tobogganing and skin diving, the Associated Student Body has provided equipment which may be checked out for use in these leisure time activities. Student organizations and the Department of Physical Education and Recreation offer a variety of programs that provide an opportunity to become acquainted with these recreational areas.

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. Emphasis is on preparing one's self for employment after graduation. Services include career exploration seminars and materials, advisement on employment and salary trends, counseling about personal satisfaction in career employment, 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 and Colleges. Interested prospective students may request copies of the published information from 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 basic and supplementary educational opportunity grants, national direct student loans and the college work-study program. Federally 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 and a federal grant program for qualified employees of law enforcement agencies (LEEP). 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 April 1. Late applications are accepted after April 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 California Parent-Teachers Association (PTA) provides a $750 scholarship to an upper-division or graduate student 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 $250 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 four scholarships of varying amounts to transfer students exhibiting financial need, academic superiority and community involvement.

The California State College, San Bernardino Faculty Wives Club provides a scholarship of approximately $300 to an upper-division student who possesses a superior academic record, financial need and a record of good citizenship.

The Foundation for California State College, San Bernardino provides approximately $1000 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. A Nancy E. Smith Scholarship is awarded annually to a student in public administration. An average scholarship is approximately $300.

The Leslie I. Harris/Bennet Meyers Memorial Fund provides a four-year scholarship to a high school graduate from the San Bernardino area with an outstanding academic record (3.5 grade-point average) and involvement in school activities. The amount of the scholarship is $600 annually.

Alfred F. and Chella D. Moore Scholarship Fund provides approximately $10,000 in scholarships to incoming freshmen with outstanding academic records (3.5 grade-point average minimum). The amount of each award is $600; some awards may automatically be renewed for an additional three years for a total of $2400. Special application is required for renewal.

The Rialto Education Association provides a $125 scholarship to a senior or graduate student who is a resident of Rialto and is entering the field of teaching. Selection is based on the student's academic record and financial need.

The Riverside Foundation/Leon S. Heseman Scholarship Fund provides $3500 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.

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. Alan Pattee Scholarships, which waive fees and tuition, are available to surviving children of California peace officers or firemen killed in the line of duty.
Financial Aid Chart

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<td><strong>C. Loans</strong></td>
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<tr>
<td>National Direct Student Loan</td>
<td>College financial aid officer</td>
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<td>Nursing program loans</td>
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<td>need</td>
<td>yes</td>
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<td><strong>D. Work-study</strong></td>
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<td>College work-study program</td>
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</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, Testing and Tutoring

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. The Center has available a variety of psychological tests and reading improvement and study skills programs to assist students.

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.

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 requirements of maintaining a full load each quarter 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 a special admissions program which provides access to a four-year college, and academic and financial support services for students with promising academic qualities, but who for socioeconomic reasons might not pursue a college education.

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.”

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 10 high schools: Colton, San Bernardino, Pacific, Cajon, San Gorgonio, Eisenhower, Sierra, Fontana, Bloomington and Birch.

Student Health Center

The Student Health Center provides all services normally administered in a physician’s office including lab and X-ray, minor surgery and physiotherapy. The health center is supported by student fees paid at registration and all CSCSB students are eligible for its services. The newly constructed Student Health Center facility is located on the east side of campus adjacent to the Commons.

Supplemental insurance which provides coverage for students and dependents is available 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 are available in the Student Health Center.

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

Disabled Student Services

The Disabled Student Services Office works with disabled students in providing information, referral and problem-solving services. The staff will assist students in ordering books on tape, hiring readers or attendants, and in making special classroom or facility arrangements. In the Library, the College has made available educational aids such as reel-to-reel tape recorders, Braille writers, cassette tape recorders and reference books in Braille and large print.

The Disabled Student Services Office is located in the Student Services Building. Students are encouraged to contact the office if they have questions or encounter any difficulties on campus.

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 and the Family Rights and Privacy Act are available here also. A fuller statement on students' privacy rights is on Page 282 in the Appendix.

**Children's Center**

A Children's Center is available to accommodate the children of the College's students, faculty and staff. Operated through the College Foundation, the center accepts children from two months through 12 years. Further information on the center, which will move to a new building on campus late in 1979, is available from the Special Services Office in the Student Services Building.

**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. Pertinent portions of these documents are made available to students at registration; complete files are available at all times in the Dean of Students office. Students are expected to be responsible for their actions and to abide by established policies and regulations.
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. A prospective applicant who is unsure of his status under these requirements is 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 and Colleges or at any California high school or community college.

A student who is admitted to the College for a given term but who does not register in that term must file a new application form and $20 application fee when he again seeks admission and must meet the then current admission requirements.

Undergraduate Application Procedures

Prospective undergraduates, whether applying for part-time or full-time programs of study, in day or evening classes, must file a complete application including all the required forms and fees as described in the application booklet. The $20 nonrefundable application fee should be in the form of a check or money order payable to The California State University and Colleges.

Undergraduate applicants may file only at their first choice campus. An alternate choice campus and major may be indicated on the application, but applicants should list as an alternate campus only that campus of The California State University and Colleges that they will attend if the first choice campus cannot accommodate them. Generally, an alternate degree major will be considered at the first choice campus before an application is redirected to an alternate choice campus. Applicants will be considered automatically at the alternate choice campus if the first choice campus cannot accommodate them. Transcripts and other supporting documents should not be submitted until requested by the campus.

Locally and Systemwide Impacted Programs

Impacted programs are those in which applications received in the first month of the filing period exceed the total spaces available, either locally (at an individual campus) or systemwide. Students must make application for an impacted program during the first month of the filing period and may file more than one application and fee. Nonresidents, foreign or domestic, usually are not considered for admission to impacted programs.

High school and community college counselors are advised prior to the opening of the fall filing period which programs will be impacted. Supplementary
admission criteria are used by the campuses to determine which applicants will be allocated space in impacted programs.

In selecting first-time freshmen and lower-division transfers with fewer than 12 transferable semester units, at least one-half of the available space will be reserved for the most highly qualified applicants based on previous academic performance as measured by the eligibility index. High school grade-point averages based on grades earned in the final three years of high school exclusive of physical education and military science, as reported by applicants on the application, and test scores received by the campus no later than the end of the first month of the filing period will be used to compute the eligibility index. Applicants should take the ACT or SAT test at the earliest date, although the inability of fall 1979 applicants to supply test scores by December 1, 1978, will not jeopardize admission priority. Remaining space may be allocated on the basis of self-declared grade-point average or other criteria, details of which will be given applicants by the campuses. Applicants who cannot be accommodated will be considered at the same campus in an alternative major or redirected to an alternative campus where the program is not impacted.

The supplementary admission criteria used by the individual campuses to screen applicants to systemwide impacted programs appear periodically in the Counselors’ Digest and are sent to all applicants under consideration. 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 $20 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 Colleges 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 1979-80</th>
<th>First accepted</th>
<th>Filing period duration</th>
<th>Student notification begins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer quarter 1979</td>
<td>Feb. 1, 1979</td>
<td>Each campus accepts applications until capacities are reached.</td>
<td>March 1979</td>
</tr>
<tr>
<td>Fall semester or quarter 1979</td>
<td>Nov. 1, 1978</td>
<td>Most accept applications up to a month prior to the opening day of the term.</td>
<td>Dec. 1978</td>
</tr>
<tr>
<td>Winter quarter 1980</td>
<td>June 1, 1979</td>
<td>Some will close individual programs as they reach capacity.</td>
<td>July 1979</td>
</tr>
<tr>
<td>Spring semester or quarter 1980</td>
<td>Aug. 1, 1979</td>
<td></td>
<td>Sept. 1979</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
- Study in speech, music, art and other subjects contributing to a strong academic background.

**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 276. Results of either the CEEB Scholastic Aptitude Test (SAT) or the American College Testing Program examination (ACT) are acceptable in establishing eligibility.

Registration forms and dates for either test may be obtained from school or college counselors, from the addresses below, or from the campus testing of-
fices. 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>College Entrance Examination Board</td>
</tr>
<tr>
<td>Registration Unit, P.O. Box 168</td>
<td>Box 592</td>
</tr>
<tr>
<td>Iowa City, Iowa 52240</td>
<td>Princeton, N.J. 08540</td>
</tr>
</tbody>
</table>

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

An applicant who is a graduate of a California high school or a legal resident for tuition purposes must have an eligibility index which places him among the upper one-third of California high school graduates. The minimum acceptable index for applicants using the SAT score is 3072; using the ACT score, 741. A table illustrating grade-point averages and test scores needed to qualify for admission is found on Page 276.

First-Time Freshmen (nonresident)

The admission requirements for nonresident applicants are higher than those for California residents. Applicants who are neither residents for tuition purposes nor graduates of a California high school must have an eligibility index which places them in the upper one-sixth of California high school graduates. The minimum index for such students is 826 (ACT) or 3402 (SAT).

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 college 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 and Graduation Requirements**

All students subject to degree requirements of 1977–78 and subsequent general catalogs must demonstrate competency in writing skills as a requirement for graduation. In addition, all lower-division students (those who enter with fewer than 56 transferable semester units) are required to take the CSUC English Placement Test (EPT) so that information can be available to help in the selection of appropriate course work in writing skills and to prepare for meeting the graduation requirement. 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 CSUC Executive Order 186, may lead to disqualification from further attendance. The results of the EPT will not affect admissions eligibility.

Information bulletins and registration materials for the EPT will be mailed to all students subject to these requirements. Alternatively, the materials may be obtained from the Office of Admissions and Records. Information on currently available ways to meet the EPT or the graduation requirement may be obtained from the Office of Academic Planning.

**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 75.

**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 $20 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.

**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. Courses appropriate for high school seniors are scheduled
at hours which will facilitate their attendance. A brochure describing the pro-
gram is available from the Office of Admissions and Records.

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 educa-
tion 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
Entrance Examination Board. Students who present scores of three or better will
be granted ten quarter units of college credit. For information on taking ad-
vanced placement examinations, students should consult their high school coun-
selors.

College credit is also awarded to students who present appropriate scores on
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 Admissions and Academic Standards Committee 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 61. A student admitted on probationary status may be restricted by his advisor to a limited program.

Servicemen’s Opportunity College

California State College, San Bernardino has been designated a Servicemen’s Opportunity College. It is one of a network of institutions throughout the nation able to provide opportunities for service men and women to pursue educational programs compatible with their duty assignments, through a combination of traditional and nontraditional means.

Individuals interested in this program are invited to contact the Office of Academic Planning for further details.

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.

Requirement and 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.
EVENING SERVICES

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 Room 226 of the Library-Classroom Building, provides these students with many of the services usually offered during the day, such as help with college regulations, dropping and adding 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

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 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.)
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. The following fees are nonrefundable: application and identification fees.

The following reflects the fees and expenses for the quarter system:

### All Students

**Application fee** (nonrefundable, payable by check or money order at time of applying) ................................................. $20.00

**Student service fee:**

- 0-6.0 units ......................................................................................................................... 38.00
- 6.1 or more units .................................................................................................................. 48.00

**Facilities fee** ........................................................................................................................................ 2.00

**Associated Students fee:**

- 6 units 6.1 units
  - Fall ................................................................................................................................. 4.00 8.00
  - Winter ............................................................................................................................ 3.00 6.00
  - Spring ............................................................................................................................. 3.00 6.00
  - Summer ........................................................................................................................ 3.00 3.00

**Student identification card fee** ......................................................................................... 1.00

**Student union fee:**

- Fall ........................................................................................................................................... 8.00
- Winter .................................................................................................................................... 6.00
- Spring ..................................................................................................................................... 6.00
- Summer session .................................................................................................................... 6.50

**Instructionally related activities fee:**

- Fall ........................................................................................................................................... 4.00
- Winter .................................................................................................................................... 3.00
- Spring ..................................................................................................................................... 3.00

### Nonresidents (foreign and domestic)

**Tuition:** per unit or fraction................................................................................................. 40.00

- 15 or more units, per quarter ................................................................................................. 600.00

  *(Note: Tuition is in addition to other fees required of all students. The total nonresident tuition charge shall not exceed $1,800 per academic year.)*

**Residence halls** (for academic year)

- Room and board (19 meals per week), double room ............................................................ 1525.00
- Room and board (19 meals per week), single room .............................................................. 1775.00
- Room and board (19 meals per week), super single ............................................................ 1900.00

**Summer session fee**

- Per quarter unit of credit ...................................................................................................... 25.00

**Special fees**

- Credential fee ....................................................................................................................... 20.00
- Art fee, certain studio courses ............................................................................................ 5.00-10.00
- Late registration .................................................................................................................... 5.00
- Failure to meet required appointment or time limit ............................................................. 2.00
- Graduation fee ..................................................................................................................... 9.00
- Certificate fee ....................................................................................................................... 6.00
- Parking fees (per quarter)
  - Each vehicle ....................................................................................................................... 12.00
  - Two-wheeled vehicle ........................................................................................................ 3.00
  - Summer session (six-week session) .................................................................................. 7.00
  - Check returned for any cause ............................................................................................ 10.00
Student Services Fee

A student services fee has been established by the trustees of The California State University and Colleges 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 281.

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 or College, 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 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.

Student Union and Associated Students fees are fully refundable upon complete withdrawal during the first 14 calendar days from when general instruction begins.

Instructionally related activities fees are fully refundable upon complete withdrawal during the first 14 calendar days from when general instruction begins.

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 $50 each quarter for books and $70 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 other services, such as grades and transcripts.

If a student feels that he does not owe all or part of a particular fee or charge, 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>

Advisory System

Every student is assigned a faculty member as an advisor upon entrance into the College. In general, the faculty advisor is in the area of the student’s major
interest. Other advisors are provided for students who have not yet chosen a major field. These faculty members are available during the special advising periods held before registration each term. (See class schedule for specific dates.) During their office hours throughout the term they are also willing to see students. To make contact with an advisor, call the appropriate department office.

The Counseling and Testing Office offers specialized counseling in career choice and personal matters. In addition, the Career Planning and Placement Office can assist students and alumni in career planning and jobs placement.

**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 at the Office of Admissions and Records. 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.

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 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 58 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 currently enrolled students.
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. A maximum of 40 units of credit may be received through such examinations.
5. A student may repeat an examination for credit only upon approval of the Dean of Academic Planning.
6. Credit by examination may not be used to fulfill the minimum residence requirement.
7. The course must be offered during the term in which the examination is taken.

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 and Colleges 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 $20 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 and Colleges 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.

R.O.T.C. Programs

Students at the College can participate through concurrent enrollment in R.O.T.C. programs at other colleges in southern California. Information about these programs can be secured from the Office of Academic Planning.

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 $5 late registration fee is required.

Adding Classes

Students may enroll for credit in courses until the last day to add classes. This date is indicated for each term in the College calendar and 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

Class attendance is expected of all students enrolled at the College. The instructor in each course sets the standards expected of students in this regard. Registration in a class may be cancelled for nonattendance at the first class meeting. (See class schedule for details.)

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 student may petition to the Dean of Academic Planning for a leave of absence from the College for any reason and, if the petition is approved, may, upon his return, continue under the catalog requirements which applied to his enrollment prior to the absence. Except in the case of military service, a leave of absence may be granted for a maximum of one year.

Illness and military service are routinely approved reasons for a leave of absence. An undergraduate student may also petition for such a leave of absence for purposes of undertaking a program elsewhere which will be consistent with the objectives of California State College, San Bernardino and which is not available on this campus.

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 and paying the application fee.
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 two weeks after the last day of each quarter.

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></td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3.0</td>
</tr>
<tr>
<td>B -</td>
<td></td>
<td>2.7</td>
</tr>
<tr>
<td>C +</td>
<td></td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td>2.0</td>
</tr>
<tr>
<td>C -</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>D +</td>
<td></td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
<td>1.0</td>
</tr>
<tr>
<td>D -</td>
<td></td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>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.
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 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

All courses, except those specifically designated to be taken Credit/No Credit, are graded on the A through F basis. 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 Postbaccalaureate and Graduate Students

Scholarship standards for unclassified postbaccalaureate students are the same as for undergraduate students.

A classified postbaccalaureate student whose grade-point average falls below 2.5 will be placed on probation. A classified postbaccalaureate student shall be subject to dismissal if while on probation the student fails to earn sufficient grade points to be removed from probation.

A classified or conditionally classified graduate student whose grade-point average falls below 3.0 will be placed on probation. Such a student on probation for two consecutive terms will be automatically disqualified and placed in unclassified postbaccalaureate status.

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.

These 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.

**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. Students are invited to inquire at the Office of Admissions and Records for current guidelines 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 changing a major should process the appropriate form through the Office of Admissions and Records. A change from "undeclared" to a major or a change from one major to another is a change in curriculum. In these instances, a student may not graduate under the requirements in the catalog in effect at the time of admission to the College. (For information on applicable catalog requirements, see section below.)

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same curriculum (major) 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 and Colleges, 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 (major) 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.

Postbaccalaureate Credit for Senior Students

Senior students who need fewer than 15 quarter units to graduate may be permitted to enroll for postbaccalaureate credit during the final term of their senior year. Postbaccalaureate credit is used to signify courses taken after the baccalaureate degree and does not necessarily mean graduate credit, i.e., credit applicable to an advanced degree. A petition form for this purpose is available in the Office of Admissions and Records.

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 $1 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:

<table>
<thead>
<tr>
<th>Undergraduates</th>
<th>Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full time ..................</td>
<td>Full time ..................</td>
</tr>
<tr>
<td>12 quarter units*</td>
<td>12 weighted units*, determined as follows:</td>
</tr>
<tr>
<td>3/4 time ..................</td>
<td>500 and 600-level course weighted at 1.5 units</td>
</tr>
<tr>
<td>9-11.5 quarter units*</td>
<td>300 and 400-level course weighted at 1.0 units</td>
</tr>
<tr>
<td>1/2 time ..................</td>
<td>100-200 no certification unless course is stated condition for admission to a graduate program</td>
</tr>
<tr>
<td>6-8.5 quarter units*</td>
<td>1/2 time ..................</td>
</tr>
<tr>
<td>Less than half time ............</td>
<td>9.0 to 11.5 weighted units*</td>
</tr>
<tr>
<td>See Registrar</td>
<td>as determined above</td>
</tr>
</tbody>
</table>

* All units must be degree or objective applicable.

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.
UNDERGRADUATE DEGREE REQUIREMENTS

To be eligible for the bachelor's degree, a student must:

1. Complete a minimum of 186 quarter units of college credit.
2. Complete 14 full-term designated courses (70 quarter units) in general education distributed in the following manner:

   A. Basic studies: three courses
      
      English 101 and two courses from the following:
      Mathematics 100, 110, 120, 200, Theatre Arts 120, Philosophy 105. (Interdisciplinary Studies 100A and B may be taken as an alternative to English 101 and Philosophy 105.)

   B. Humanities: three courses
      
      One course in the arts:
      a. Art (Art 200)
      b. Theatre Arts (Theatre Arts 250)
      c. Music (Music 180)

      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: two courses
      
      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
      
      World Civilizations I, The Rise of Civilization (Social Sciences 140)
      World Civilizations II, The Civilizations of the East and West (Social Sciences 142)

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**Credit toward the general education requirement will not be awarded for the 101 course unless followed by 102.**
World Civilizations III, The Expansion of Europe (Social Sciences 144)
American Civilization (Social Sciences 146)
Contemporary Civilization: Ideas and Institutions (Social Sciences 150)
Minority Groups in America (Social Sciences 155)
Contemporary Civilization: Values and Behavior (Social Sciences 160)
Regions and Peoples of the World (Social Sciences 165)

E. Lower-division general education elective: one course
   To be chosen from the designated courses in one of the four major categories (A, B, C, D) above.

A wide range of courses may be readily transferred from community colleges to satisfy each of the lower-division general education requirements (categories A through E, above). It should be noted, however, that after a student matriculates at the California State College, San Bernardino, only those courses which have been specifically articulated as being equivalent to general education courses at this college may be taken at a community college and subsequently presented here for general education credit. For information about specific courses, contact the evaluation section of the Office of Admissions.

F. 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); Natural Sciences (300, 310, 350, 351); Social Sciences (300, 304, 315, 321). 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.

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 71.)
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 in 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 and Graduation Requirements, Page 70.)
10. Complete history, constitution and government requirement.
   (Refer to History, Constitution, Government Requirement, Page 70.)
11. Be recommended for graduation by the faculty of the College.
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 requirement check was filed are responsible for filing a new form with the revised date.

English Placement Test and Graduation Requirements

All students subject to degree requirements of 1977–78 and subsequent general catalogs must demonstrate competency in writing skills as a requirement for graduation. In addition, all lower-division students (those who enter with fewer than 56 transferable semester units) are required to take the CSUC English Placement Test (EPT) so that information can be available to help in the selection of appropriate course work in writing skills and to prepare for meeting the graduation requirement. 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 CSUC Executive Order 186, may lead to disqualification from further attendance. The results of the EPT will not affect admissions eligibility.

Information bulletins and registration materials for the EPT will be mailed to all students subject to these requirements. Alternatively, the materials may be obtained from the Office of Admissions and Records. Information on currently available ways to meet the EPT or the graduation requirement may be obtained from the Office of Academic Planning.

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 or Political Science 314.
The requirement in the principles of state and local government as established in California may be met by completing one of the following: Social Sciences 150, History 370B or Political Science 330.

A student can meet the entire history, constitution and government requirement, while fulfilling general education requirements, by taking Social Sciences 146 and 150. 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. Requirements of the major involved;
3. In addition to whatever work was presented for the first bachelor’s degree, a minimum of 45 quarter units of residence work at this College with at least 36 at the upper-division level and at least 18 in the second major; and
4. 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 and 18 must be in the major.

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 biology, chemistry, economics, health science, mathematics, 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, or in most instances recommended, since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study.

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

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.
GRADUATE PROGRAMS

California State College, San Bernardino currently offers graduate programs culminating in master's degrees in business administration, public administration, biology, education, 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 in a chosen discipline. The College provides for the part-time, as well as the full-time, student by offering appropriate course work and research opportunities during the day, late afternoon and evening throughout the regular quarters and the summer sessions.

The School of Administration offers a Master of Business Administration (M.B.A.) and a Master of Public Administration (M.P.A.). 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, early childhood education, elementary and secondary education, English and history (for secondary teachers), special education, reading, and school administration.

The Department of Psychology offers an M.S., with a 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 offers two external Master of Arts degrees in education. One external M.A., in the Coachella Valley, offers options in elementary education and school counseling. The other, in Hemet, offers an option in reading.

Additional graduate programs are anticipated in the future.

Admission to the College

A student who has successfully completed a four-year college course and holds a baccalaureate degree from an accredited institution may be eligible for admission to the College with postbaccalaureate or graduate standing. He must satisfactorily meet the professional, personal, scholastic and other standards for graduate study. In addition, a student admitted with classified graduate status must show promise of success and fitness.

In seeking admission to the College, each applicant must submit to the Office of Admissions and Records an application for admission, a statement of resi-
dence form, a $20 application fee and two official transcripts from each college or university attended.

Applicants for postbaccalaureate programs are limited to the choice of a single campus within the California State University and Colleges system on each application form. If an applicant wishes to be considered by more than one campus, he must submit a separate application and fee to each.

An applicant accepted for postbaccalaureate study at the College must be admitted in one of the following categories:

**Unclassified Postbaccalaureate Standing.** For admission to unclassified postbaccalaureate standing, a student must: (a) hold an acceptable baccalaureate degree from an accredited institution or have completed equivalent academic preparation as determined by the Associate Dean of Graduate Studies; (b) have attained a grade-point average of at least 2.5 (on a five-point scale where A equals 4.0) in the last 60 semester (90 quarter) units attempted; and (c) have been in good standing at the last college attended. Admission to this College with unclassified postbaccalaureate standing does not constitute admission to graduate degree curricula.

An applicant who does not qualify for admission under the provisions cited above may be admitted by special action if on the basis of acceptable evidence he is judged to possess sufficient academic, professional and other potential to merit such action. Petitions for admission by special action should be directed to the Office of Academic Planning.

**Classified Postbaccalaureate Standing.** A student who is eligible for admission to this College in unclassified standing may be admitted to classified postbaccalaureate standing for the purpose of enrolling in a particular postbaccalaureate credential or certificate program; provided that professional, personal, scholastic and other standards, including qualifying examinations, prescribed for the particular program by the College are satisfied.

**Conditionally Classified Graduate Standing.** A student who is eligible for admission to this College under the unclassified postbaccalaureate standing above, but who has deficiencies in prerequisite preparation which can be met by specified additional preparation, including qualifying examinations, may be admitted to an authorized graduate degree program with conditionally classified graduate standing.

**Classified Graduate Standing.** A student who is eligible for admission to this College in unclassified or conditionally classified standing may be admitted to a graduate degree program as a classified graduate student if he satisfactorily meets the professional, personal, scholastic or other standards, including qualifying examinations, prescribed for the particular program.

No more than 20 units of credit earned in unclassified or conditionally classified 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 graduate advisor assigned to the student.

Only students who continue to demonstrate a satisfactory level of scholastic competence and fitness, as determined by appropriate College authorities, shall be eligible to continue in a graduate program. Students whose performance is
judged to be unsatisfactory may be required to withdraw from all graduate
degree programs offered by the College.

Teaching Credential. A student desiring to work toward a teaching credential
at the College must first meet the general qualifications. After admission to the
College, he must meet the particular requirements for participation and formal
acceptance into the credential program as specified by the appropriate instruc­
tional area. A credential candidate must have maintained a minimum 2.5 grade­
point average in undergraduate course work in his major field.

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

To be admitted as a classified graduate student, a student must:

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

2. Have one of the following combinations of grade-point average (GPA)
and test score on the GMAT (Graduate Management Admission Test):
   a. GMAT score plus 200 times GPA on the last 50 percent of course work
      for the bachelor's degree equals or exceeds 1020, or
   b. 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 1070.

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

4. Demonstrate competence in the following courses or their equivalents:
   Economics 305; Administration 220, 305, 330, 500, 503 and 504 (or Math­
   ematics 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 documenta­
      tion 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 commit­
      tee of the School of Administration.)

5. Demonstrate academic motivation and personal qualifications 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 qualifi­
cations that will contribute to successful completion of 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 on a space available basis. They will automatically be consid­
ered 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 the M.P.A. Program in Public Administration

To be admitted as a classified graduate student, a student must:

1. Possess a bachelor's degree from an accredited college or university;
2. Have one of the following combinations of grade-point average (GPA) and test score on the GRE (Graduate Record Examination):
   a. GRE score plus 400 times GPA on the last 50 percent of course work for the bachelor's degree equals or exceeds 2100, or
   b. 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 2200.
3. Submit GRE score by the deadline for that term; if test result is not submitted on time admission status will be unclassified postbaccalaureate;
4. Demonstrate competence in the following courses or their equivalents: Economics 100 and 102, or Economics 305; Mathematics 110 or 120; Political Science 428; Administration 210 or Mathematics 150; Administration 220, 301, 302, 306, Economics 475 and Administration 575. 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. Demonstrate academic motivation and personal qualifications that will contribute to successful completion of the program 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 on a space available basis. 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 order to be admitted as a classified student in the biology program a student must have:
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 college-wide requirements for postbaccalaureate admission (Page 75), classified standing in any of the options within the M.A. in Education requires:
1. A grade-point average of at least 2.5 in the last 90 quarter units and a 3.0 in all course work taken in Education.

The following are required for admission as a classified student in a specific program.

In the bilingual/cross-cultural option:
1. A valid teaching credential or evidence of full-time teaching experience;
2. A cumulative grade-point average of 3.0 in all courses taken in 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.

In the counselor education option:
1. Completion of Education 531 with a grade of B 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.

In the early childhood education option:
1. A valid teaching credential or evidence of full-time teaching experience;
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.
In the elementary education option:
1. A valid teaching credential or evidence of full-time teaching experience;
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.

In the reading option:
1. A valid teaching credential or evidence of full-time teaching experience;
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.

In the school administration option:
1. A valid teaching credential or evidence of full-time teaching experience; (normally a student is expected to be working concurrently for a credential in school administration.)
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.

In the secondary education option:
1. A valid teaching credential or evidence of full-time teaching experience;
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.

In the history and English options for secondary teachers:
1. An undergraduate major in history or English;
2. A valid teaching credential or evidence of full-time teaching experience;
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.

In the special education option:
1. Completion of Education 530 with a grade of B or better;
2. A valid teaching credential or evidence of full-time teaching experience;
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 (and the Departments of English or History, for secondary teachers selecting options in one of these fields).
**Admission to M.A. Program in Psychology**

In order to be admitted as a classified student in the M.A. program, a student must:

1. Possess 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. Have a cumulative undergraduate grade-point average of at least 2.5 overall and at least 3.0 in the major;
3. Submit to the department a brief statement describing preparation for graduate study, goals of the graduate program and professional aspirations;
4. Provide for three letters of recommendation, at least two from former professors. Letters should come directly from the writers or be included in a placement file.

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 order to be admitted as a classified student in the M.S. program, a student must:

1. Have a cumulative undergraduate grade-point average of at least 2.5 overall and at least 3.0 in the major;
2. Possess 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. Submit to the department Graduate Admissions Committee 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;
4. Provide for three letters of recommendation, at least two from former professors. Letters should come directly from the writers or be included in a placement file.

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.

**Graduate Bulletin**

Complete details on requirements for admission to the existing programs, advancement to candidacy and requirements for graduation 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.
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, the candidate must receive two-thirds of his 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 by the Office of Admissions and Records that the requirements have been satisfied. The candidate is responsible for initiating the conferring of the certificate, during the last term of certificate-applicable study. Award of the certificate also will be noted on the student's transcript.

Certificate in Accounting

The requirements for a Certificate in Accounting consist of the following:

- Administration 306. Concepts of Accounting
- Administration 340. Managerial Accounting
- 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 344. Cost Accounting Fundamentals
- 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
- 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
Certificate in Bilingual/Cross-cultural Studies: Spanish/English

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

- Spanish 101. Elementary Spanish I
- *Spanish 102. Elementary Spanish II
- *Spanish 103. Intermediate Spanish 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 533. Teaching the Culturally Different: The Chicano
- Art 325. Studies in Mexican and Chicano Art
- Music 351. Studies in Mexican and Chicano Music

*Course has a prerequisite

Certificate in Computers and Programming

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

- Computer Science 100. Computers and Society
- Computer Science 135. Introduction to Computers and BASIC
- Computer Science 140. FORTRAN Programming
- *Computer Science 340. Advanced Programming
- *Computer Science 345. COBOL Programming
- *Computer Science 350. Computers and their Applications
- *Computer Science 440. Directed Study in Computers/Programming

One upper-division applied course such as:

- *Administration 420. Computer Management
- †*Administration 607. Operations Management
- *Economics 480. Introduction to Mathematical Economics or others, to be selected in consultation with an advisor.

*Course has a prerequisite
†Course is open to post-baccalaureate and graduate students only

Certificate in Financial Management

The requirements for a Certificate in Financial Management consist of the following:

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

Plus two electives from the following courses:
*Administration 340. Managerial Accounting
*Administration 372. Intermediate Accounting
*Administration 373. Problem Areas in Intermediate Accounting
*Administration 426. Federal Taxation: Individuals
*Administration 431. Real Estate Finance and Investment
*Economics 410. Money and Banking
*Economics 475. Public Finance
*Course has a prerequisite

Certificate in Human Resources Management
The requirements for a Certificate in Human Resources Management consist of the following:
  Administration 302. Human Behavior in Organizations
*Administration 455. Human Resources Management
*Administration 457. Industrial and Labor Relations
*Administration 458. Employment Policies and Practices

Plus two electives from the following courses:
  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 451. Organization and Management Theory
*Administration 456. Psychology of Human Resources
*Administration 462. Human Factors Design
*Administration 551. Organizational Behavior Modification
*Administration 557. Public Sector Labor Relations
*Administration 562. Public Personnel Administration

*Course has a prerequisite

Certificate in International Relations
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
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
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*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

The requirements for a Certificate in Marketing Management consist of the following:

Administration 305. Marketing Principles
*Administration 410. Consumer Behavior
*Administration 411. Retailing
*Administration 412. Advertising

Plus two electives from the following courses:
Administration 230. Legal Aspects of Business Transactions
Administration 306. Concepts of Accounting
*Administration 413. Procurement
*Administration 440. Marketing Research
*Administration 442. Small Business Management
*Economics 302. Intermediate Microeconomics
Geography 420. Geography of Economic Activity

*Course has a prerequisite

Certificate in Paralegal Studies

The requirements for a Certificate in Paralegal Studies consist of 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 385. Legal Research and Writing
Paralegal Studies 890. Law Office and the Role of the Paralegal Professional

Offered through extension only

Three additional courses to be selected from:

Political Science 328. Judicial Process
Political Science 410. American Constitutional Law
Political Science 411. The Bill of Rights
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
Certificate in Women's Studies

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
  Philosophy 357. Feminism: Philosophical Issues
  Political Science 340. Sex and Politics
* Psychology 331. 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, History 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

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

  English 313. Introduction to Creative Writing
  English 370. Theory and Practice of Newspaper Journalism
* English 371. Topics in Journalism
  English 394. Writing Seminar
  English 396. Advanced Composition
  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.

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: M.A. in Education (elementary education option and counseling option) and a B.A. in Liberal Studies in the Coachella Valley and M.A. in Education (reading option) in Hemet. Information on new or upcoming programs available in a specific area may be obtained by contacting the Office of Continuing Education.

Center for Training Development

The Office of Continuing Education has established a Center for Training Development for the community and outlying areas, offering consulting services, training programs, educational components for grants, needs assessment, curriculum planning and assistance with symposia and conferences. The services are available for organizations and institutions.

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 exten-
sion 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**  **Education**
Business Administration  Special Programs
Public Administration  Teacher Education

**Humanities**  **Natural Sciences**  **Social and Behavioral Sciences**
Art  Biology  Anthropology
English  Chemistry  Economics
Foreign Languages  Health Science  Geography
Music  Mathematics  History
Philosophy  Nursing  Political Science
Theatre Arts  Physics  Psychology

**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

All courses at California State College, San Bernardino carry five quarter units of credit, unless otherwise indicated in the course description in this Bulletin. For purposes of comparison with other colleges, a five quarter-hour course is equivalent to a 3 1/3 semester-hour course.

Nondiscrimination on the Basis of Sex

The California State University and Colleges 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, 760 Market Street, Room 700, San Francisco, California 94102.

Nondiscrimination on the Basis of Handicap

The California State University and Colleges does not discriminate on the basis of handicap in violation of Section 504 of the Rehabilitation Act of 1973, as amended, and the regulations adopted thereunder.

More specifically, The California State University and Colleges 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 California State College, San Bernardino, 5500 State College Parkway, San Bernardino, CA 92407, 887-7201.

Every effort has been made to assure the accuracy of the information in this catalog. Students are advised, however, that such information is subject to change without notice. Therefore, they should consult the appropriate instructional departments, schools, or administrative offices for current information. (Also see Changes in Rules and Policies statement on Page 282.)

The class schedule, issued prior to each quarter, lists courses to be offered during that term.
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; 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 an advisor and the Dean of the School of Administration, 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, 431, 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, 411, 412, 440 and two electives chosen from Administration 413, 470, 575, Geography 420, Economics 302
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 specialty areas indicated below and the specified number of electives:

Public Accounting: Administration 374, 426, 438 and one elective chosen from Administration 230, 427, 428, 525, 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 345 and one elective chosen from Administration 360, 438, 465, 569, 575

With the prior approval of an advisor and the Dean of the School of Administration, the student may substitute other courses for these electives. Up to two of the electives may be chosen from other academic disciplines. 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 345; Mathematics 350.

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 100 and 102; Administration 302, 303, 304, 305, 306 and 330.

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 85.

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.

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.

230. LEGAL ASPECTS OF BUSINESS TRANSACTIONS
Principles of law affecting certain common business transactions with emphasis on the Uniform Commercial Code.

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.

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.

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.

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.

305. MARKETING PRINCIPLES
Marketing functions including products, channels, pricing and promotion.

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

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.

308. LOCAL GOVERNMENT MANAGEMENT
Organization, functions and problems of local government administration.

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

340. MANAGERIAL ACCOUNTING
Accounting information systems used by management. May not be counted toward fulfilling requirements of the accounting concentrations. Prerequisite: Administration 306.

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.

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

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.

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.

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.

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.

372. INTERMEDIATE ACCOUNTING

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.

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

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.)

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.
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.

410. CONSUMER BEHAVIOR
Nature and determinants of consumer attitudes, consumption and purchasing behavior. Prerequisite: Administration 305.

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.

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.

413. PROCUREMENT
Interaction of buyer and seller in the organizational environment. Problems in procurement by industrial and governmental organizations. Topics include: buying policies, vendor selection, and quantity and quality determination. Prerequisite: Administration 305.

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

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.

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

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.

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.

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.

431. REAL ESTATE FINANCE AND INVESTMENT
Theoretical and pragmatic methods of analyzing real estate investments. Real estate investment opportunities are evaluated in light of investment objectives. Meets California statutory course requirements for real estate license. Prerequisite: Administration 303 or consent of instructor.
432. FINANCIAL INTERMEDIARIES
Structure, operations, portfolio compositions and problems of financial intermediaries and markets. *Prerequisite: Administration 303.*

435. INVESTMENT ANALYSIS
Analysis and forecasting of security markets, industry studies, portfolio construction. *Prerequisite: Administration 303.*

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.*

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.*

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.*

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 340.*

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.*

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.*

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.*

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.*

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 455 and senior standing.*

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.*
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.

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.

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.

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.

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.

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.

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.

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.

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.)

511. MANAGEMENT OF MARKETING OPERATIONS
Daily and periodic operating problems of the marketing executive. Emphasis on problems dealing with sales management, new product introductions, management, operations and promotions. Prerequisite: Administration 305.

525. CPA REVIEW
Comprehensive study of the application of accounting principles and theory to problems of current interest. Emphasis on approaches to solving problems typically found on the Certified Public Accountant examination. Prerequisite: Administration 428 or consent of instructor.
104 / Administration

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.

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.

552. ORGANIZATIONAL CHANGE AND CONFLICT
Contemporary approaches to changing organizational and individual behavior, and management of conflict. Prerequisite: Administration 302 or 500.

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 457 or Administration 562.

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.

563. GOVERNMENTAL BUDGETING
Role of the budgetary process in government management, the public sector environment of budgeting, budget formulation and administration. Prerequisite: Economics 475, or consent of instructor.

566. URBAN ADMINISTRATION
Administrative problems and characteristics of public management in the urban area. Prerequisite: senior standing or consent of instructor.

567. PROGRAM PLANNING AND BUDGETING SYSTEMS IN GOVERNMENT
Processes involved in budget formulation and legislative enactment. Inter-organizational arrangements, methods and tools such as cost-benefit analysis. Emphasis on operating agency. Prerequisite: Administration 563 or consent of instructor.

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.

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.

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.

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.

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 to 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. Prerequisites: Administration 301 and 302, or equivalents.

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.

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.

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.

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.

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.

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.

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

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.

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.

630. PRODUCTION SYSTEMS DEVELOPMENT
Production function (both products and services) in management and its importance as a subsystem of administrative operations. Prerequisite: Administration 607.
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).

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.

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

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

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.

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.

652. ACCOUNTING THEORY AND RESEARCH
Development of accounting theory; accounting standards, doctrines and conventions; current problems; survey of current literature in accounting. Prerequisites: Administration 602 and 603.

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.

670. LOCAL ADMINISTRATION
City, county, school district and special district administration, including management of the following functions: police, fire, health, education, welfare, probation, public works, environment, tax and personnel. Prerequisites: Administration 600 and 601.

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, 601, 603.

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.

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.
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
HISTORY 570. AMERICAN URBAN 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 470. THE NATIONAL GOVERNMENT AND THE NATIONAL ECONOMY

THEATRE ARTS 461. AMERICAN DRAMA

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

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.

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.
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.

Requirements for the major: a minimum of eight upper-division courses in anthropology including: Anthropology 300; 511 or 590; two courses from Anthropology 301, 305, 310, 315, 325, 330, 351, 352, 354, 356, 360, 361, 390; three courses from Anthropology 455, 456, 457, 460, 465, 470, 475, 480, 490, 491, 492, 493, 550, 590, 595; one additional upper-division course in anthropology (or a related field as approved by an advisor).

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 four upper-division courses selected in consultation with an advisor.

100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION
Man's biological and social evolution through time.

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.

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.

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

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

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

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

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.

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

352. INDIANS OF THE SOUTHWEST

354. CULTURES OF MEXICO AND CENTRAL AMERICA

356. CULTURES OF SOUTH AMERICA

360. PEOPLES OF AUSTRALIA

361. PEOPLES OF MICRONESIA, MELANESIA AND POLYNESIA

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

455. ADVANCED PHYSICAL ANTHROPOLOGY: HUMAN VARIATION
The processes of adaptive differentiation in man and the assessment of significant differences among human races; the influence of culture in microevolutionary phenomena and the analysis of blood groups and other gene distributions in modern populations. Prerequisite: Anthropology 100 or equivalent or consent of instructor.

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.

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.

460. LANGUAGE AND CULTURE
Analysis of languages stressing the relationship of language to patterns of human behavior.
465. PSYCHOLOGICAL ANTHROPOLOGY
Cross-cultural comparisons of personality and its formation, stressing the mutual interrelationship of cultural, social and psychological factors in human behavior. Prerequisite: Anthropology 102 or equivalent, or Psychology 100 or equivalent, or consent of instructor.

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.

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.

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.

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

491. POLITICAL ANTHROPOLOGY
An examination of anthropological concepts relevant to comparative studies of traditional political systems and their relationships to other aspects of culture, with an emphasis on tribal and other nonindustrial cultures.

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

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.

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.

530. ANTHROPOLOGY OF HUMAN DEVELOPMENT
A cross-cultural perspective on human development and the processes of personality formation and cultural transmission.

550. FIELDWORK IN CULTURAL ANTHROPOLOGY
Supervised design, execution and analysis of an ethnographic field project. Prerequisite: consent of instructor.

590. SEMINAR IN ANTHROPOLOGY
Study of selected topics in anthropology. May be repeated for credit, with consent of instructor.

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 programs 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, weaving and fiber construction, glass blowing, painting and drawing, printmaking, sculpture, 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, 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, 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 210 and 211.

Requirements for the major (Plan III, art history area of concentration): Art 201, 203, 204, 210, 211, 510; two upper-division studio art courses; one course chosen from each of the following five groups of art history courses: (Art 306,
308, 316), (Art 321, 327), (Art 311, 423), (Art 325, 413), (Art 314, 317, 318, 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.

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.

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

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

203. FOUNDATION STUDIO IN ART
The organization of three-dimensional phenomena.

204. DRAWING AND LIFE DRAWING
Exploration in techniques of drawing for purposes of creative expression related to object and figure placement in space.
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 I
Development of art and its historical context from prehistoric times through the Middle Ages.

211. WESTERN ART HISTORY II
Development of art and its historical context from the Renaissance to the present.

303. DESIGN STUDIES
Study and experimentation in creative problem solving and various techniques in visual design.

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.

306. GREEK AND ROMAN ART
Architecture, sculpture, painting and decorative arts of ancient Greece and Rome.

308. MEDIEVAL ART
Art and architecture of Europe from the 8th through the 13th centuries.

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.

314. THE ART OF INDIGENOUS PEOPLES
Art of the native cultures of North, Central and South America; the South Pacific; Africa.
316. ARTS OF THE NEAR EAST
History and development of the arts of the ancient Near East and Islam.

317. ART OF THE FAR EAST I
History and development of styles of art from prehistoric times in India, Ceylon, Central and Southeast Asia.

318. ART OF THE FAR EAST II
History and development of styles of art from prehistoric times in China, Korea and Japan.

321. RENAISSANCE ART
Art and architecture of northern and southern Europe in the 15th and 16th centuries.

324. PRE-COLUMBIAN ART
Art and architecture of pre-Columbian cultures with an emphasis on Mexico and Peru.

325. STUDIES IN MEXICAN AND CHICANO ART
Visual history of pre-Columbian Mexico, changes after the conquest to contemporary times and their influences on the Chicano art movement today.

327. BAROQUE AND ROCOCO ART
Art and architecture of 17th and 18th century Europe.

331. PAINTING I
Pictorial functions of formal elements of picture-making such as line, plane, color and light, pattern and edge. Prerequisites: Art 201 and 204.

334. ADVANCED PAINTING
Advanced work in painting. A maximum of 20 units may be applied toward the degree. Prerequisite: Art 331 or consent of instructor.

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. Prerequisite: Art 203 or consent of instructor.

354. CERAMICS I
Procedures of hand building, throwing, slip casting and glazing as practiced by the studio potter and the ceramic sculptor.

357. ADVANCED CERAMICS
Advanced work in ceramics. A maximum of 20 units may be applied toward the degree. Prerequisites: Art 203 and 354 or consent of instructor.

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. Prerequisites: Art 201 and 204.

373. WOODWORKING AND FURNITURE DESIGN
Exploratory experiences in the use of hand and power tools in woodworking techniques for the fabrication and design of wood projects. A maximum of 25 units may be applied toward the degree. Prerequisite: Art 203 or consent of instructor.

374. WEAVERING 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. Prerequisite: Art 203 or consent of instructor.
375. GLASS BLOWING
The techniques of furnace glass working involving gathering molten glass on blow pipes and punti rods, as well as cold working, as used in the formation of both functional and sculptural glass objects. A maximum of 25 units may be applied toward the degree. Prerequisite: Art 203 or consent of instructor.

376. JEWELRY AND METALSMITHING
Design and fabrication of jewelry and hollow ware including the techniques of bending, forming, soldering and casting. A maximum of 15 units may be applied toward the degree. Prerequisite: Art 203 or consent of instructor.

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. Prerequisites: Art 201 and 204 or consent of instructor.

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.

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.

410. STUDIES IN ART HISTORY
Study in a selected period in the history of art. May be repeated for credit.

413. MODERN ART OF THE UNITED STATES
Art in America in the 20th century.

423. NINETEENTH CENTURY EUROPEAN ART
Art of 19th-century Europe; from neo-Classicism through post-Impressionism.

424. MODERN EUROPEAN ART
Twentieth-century art and architecture in Europe from 1900 to the present.

429. SPECIALIZED STUDIO PROJECTS
Study and experimentation developed in consultation with the instructor from the student’s individual abilities and needs. Prerequisite: consent of instructor.

482. STUDIO WORKSHOP
Study and experimentation in a selected area of art. May be repeated for credit. Prerequisites: Art 201, 203 and 204 or consent of instructor. (Credit to be arranged: 2 to 5 units)

499. METHODS AND MATERIALS IN THE TEACHING OF ART
A studio course dealing with media exploration, community resources, art classroom organization and contemporary art education philosophy. This course may not be counted toward fulfilling requirements of courses in the art major. Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.

510. COLLOQUIUM IN ART
Inquiry into problems of art history, aesthetics and art criticism. May be repeated for credit. Prerequisite: consent of instructor.
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 188). 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 86.

ANTHROPOLOGY 354. CULTURES OF MEXICO AND CENTRAL AMERICA
ANTHROPOLOGY 460. LANGUAGE AND CULTURE
ART 325. STUDIES IN MEXICAN AND CHICANO ART
EDUCATION 533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO
EDUCATION 534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN
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
BIOLOGY

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.

In a number of courses, field trips are normal and frequent.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in biology should refer to Page 71 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 a senior project 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).

### 100. TOPICS IN BIOLOGY
Major generalizations of biology with particular emphasis on man's interaction with the biosphere. Lecture and three hours of laboratory.

### 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.

### 201. BIOLOGY OF ORGANISMS
Introduction to the structural and functional attributes of organisms. Lecture and three hours of laboratory.

### 202. BIOLOGY OF POPULATIONS
Introduction to the principles of ecology, heredity and evolution. Lecture and three hours of laboratory.

### 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.

### 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.

### 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.
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.

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.

319. LOCAL FLORA
Identification of flora of the immediate San Bernardino area. Field collections, lecture and six hours of laboratory. May not be counted toward fulfilling requirements in the biology major by students already receiving credit for Biology 464. 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.

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)

351. BIOLOGY OF LOWER PLANTS
A survey of the major structural and physiological features in the evolution of lower plants. Lecture and six hours of laboratory. Prerequisite: Biology 201. (6 units)

357. BIOLOGY OF HIGHER PLANTS
Comparative morphology of ferns, fern allies and seed plants, with a consideration of their phylogenetic relationships. Lecture and six hours of laboratory. Prerequisite: Biology 201 or consent of instructor. (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.

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.

378. MEDICAL AND ECONOMIC ENTOMOLOGY
Survey of medically and economically important species harmful and beneficial to man. Lecture only.

395. THE BIOLOGIST AND PUBLIC POLICY
Seminar exploring the role of the biologist in helping society cope with complex biology-related problems such as overpopulation, environmental pollution and genetic engineering. Open to students in all majors. Prerequisite: a college course in biology. (2½ 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.

464. TAXONOMY OF VASCULAR PLANTS
Taxonomic characteristics of vascular plant orders and families, with laboratory investigation of illustrative living and preserved plant material. Lecture and six hours of laboratory. Prerequisites: Biology 201, 202 and 357. (6 units)
470. BIOLOGY OF MICROORGANISMS
A study of microorganisms and their activities: microbial cell structure and function, metabolism, microbial genetics, microbial ecology, viruses and pathogenic microorganisms. Lecture and six hours of laboratory. Prerequisites: Biology 201 and 202 and Chemistry 226 or 323. Recommended: Biology 400 or Chemistry 437. (6 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)

499. METHODS AND MATERIALS IN THE TEACHING OF BIOLOGY
This course may not be counted toward fulfilling requirements of courses in the biology major. Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.

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.

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.

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.

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 file 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. (2\frac{1}{2} 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. (2\frac{1}{2} 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. (2\frac{1}{2} 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. (2\frac{1}{2} 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, 351, 357 or 464. Recommended: Mathematics 150. (2\frac{1}{2} 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. (2\frac{1}{2} units)

680. ADVANCED TOPICS IN EVOLUTION
Topics of current research interest in plant or animal evolution. May be repeated for credit as topics change. (2\frac{1}{2} 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. (2\frac{1}{2} 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. (2\frac{1}{2} 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 71 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 and 226 or 221, 225, 222 and 226; and Mathematics 200-201-202.

Requirements for the bachelor of science degree: Chemistry 215-216-217, 321-322-323, 455-456-457, 475, 590 and 15 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.

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.

206. FUNDAMENTALS OF CHEMISTRY II: ORGANIC CHEMISTRY
Introduction to the chemistry of organic compounds. Lecture and three hours of laboratory. Prerequisite: Chemistry 205.

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.

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.

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.

322. PRINCIPLES OF ORGANIC CHEMISTRY II
Continuation of Chemistry 321. Lecture and six hours of laboratory. Prerequisite: Chemistry 321 or consent of instructor.
323. PRINCIPLES OF ORGANIC CHEMISTRY III
Continuation of Chemistry 322, including special topics in heterocyclic compounds, fats, carbohy­
drates, and amino acids and proteins. Lecture and six hours of laboratory. Prerequisite: Chemistry
322 or consent of instructor.

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, mech­
anism and structure of enzymes; the principles of bioenergetics; and the basic principles of metabo­
lism. Lecture and three hours of laboratory. Prerequisites: Chemistry 216, and 226 or 323.

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.

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)

457. PHYSICAL CHEMISTRY III
Quantum and statistical mechanics, gases, theories of reaction kinetics, photochemistry and crystal
structure. Lecture only. Prerequisites: Chemistry 456, Mathematics 203 and Physics 223 or consent
of instructor. Physics 223 may be taken concurrently.

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
Advanced lecture course on a subject such as: synthetic organic chemistry, theoretical organic
chemistry, natural products chemistry, bio-physical chemistry or polymer chemistry. May be repeated
for credit as topics change. Prerequisite: Chemistry 455 or consent of instructor. (2½ units)

545. ADVANCED ANALYTICAL CHEMISTRY
Principles and techniques of modern instrumental analysis, including spectrophotometry, spectro­
copy, 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)

549. ADVANCED CHEMICAL INSTRUMENTATION
Individual study on advanced chemical instrumentation under the direction of a faculty member. May
be repeated once for credit. Prerequisites: Chemistry 323 and consent of department and
instructor. (Credit to be arranged: 1 to 2 units)

566. THE LITERATURE OF CHEMISTRY
Introduction to the use of chemical information resources. Lecture only. Prerequisite: Chemistry 226
or 323 or consent of instructor. (2½ units)
568. HISTORY OF CHEMISTRY
Development of chemical knowledge from antiquity to present times. Lecture only. Prerequisite: Chemistry 206 or 226 or 323 or consent of instructor. (2½ 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.

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 four approved electives, at least two 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
PSYCHOLOGY 358. COGNITIVE DEVELOPMENT
PSYCHOLOGY 384. PERSONALITY AND SOCIAL DEVELOPMENT
SOCIOLOGY 339. SOCIALIZATION

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 331. GROWTH AND DEVELOPMENT OF THE YOUNG CHILD
EDUCATION 342. CURRICULUM AND METHODS FOR EARLY CHILDHOOD EDUCATION
EDUCATION 530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN
POLITICAL SCIENCE 450. POLITICAL SOCIALIZATION
PSYCHOLOGY 325. PSYCHOLOGY OF INFANCY
PSYCHOLOGY 328. PSYCHOLOGY OF ADOLESCENT DEVELOPMENT
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. DEVIANT BEHAVIOR
SOCIOLOGY 480. HUMAN GROWTH AND SOCIAL ENVIRONMENT
At present the College does not offer a major program in computer science. 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 86. Further information about this certificate program can be obtained from the School of Natural Sciences.

Inquire at the School of Natural Sciences Office, Biological Sciences Building, Room 130 (Telephone 887-7341) for further information about the computer science offerings.

100. COMPUTERS AND SOCIETY
Survey course providing an introduction to computers and their capabilities, limitations, uses and misuses, and revolutionary impact on modern society. (2½ units)

135. INTRODUCTION TO COMPUTERS AND BASIC
Introduces concepts of general interest to all programming languages with the use of the conversational-type language 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, many of them non-mathematical. (2½ units)

140. FORTRAN PROGRAMMING
Introduction to FORTRAN language in which the student will analyze, formulate, code, punch and debug a series of programs related to everyday life.

335. ADVANCED BASIC PROGRAMMING
Advanced features and extensions of BASIC programming language. Prerequisite: Computer Science 135. (2½ units)

340. ADVANCED PROGRAMMING
Advanced topics in programming, assembly language, emphasis on the overall structure of programs. Prerequisite: Computer Science 140.

345. COBOL PROGRAMMING
Introduction to COBOL language in which the student will analyze, formulate, code, punch and debug a series of programs related to the business world. Prerequisite: Computer Science 135 or 140.

350. COMPUTERS AND THEIR APPLICATIONS
Introduction to modern computers, their architecture and peripheral equipment, data representation and information processing. Typical applications of computers are reviewed. Prerequisite: Computer Science 135, 140 or 345. (2½ units)

440. DIRECTED STUDY IN COMPUTERS/PROGRAMMING
Individual projects or directed reading related to computers, computer systems, programming languages, compilers, minicomputers, microcomputers, time-sharing or other related topics. The selection, implementation, documentation and presentation of topics require the approval of the faculty advisor in charge of the course. May be repeated once for credit. Prerequisite: Computer Science 135, 140 or 345. (2½ units)
CRIMINAL JUSTICE

In a period of rapid and dramatic social change, 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 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 each student to pursue his 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.

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: Criminal Justice 101, 102, 103; Sociology 210, 305, 350, 357, 358 and 359; eight additional courses to be selected as follows, in consultation with an advisor: two courses from among Administration 302, 350, 455, 456 or 380*; one course from among Philosophy 350, 355 or 465; two courses from among Political Science 328, 380*, 410 or 411; two courses from among Psychology 100, 385, 387, 390; one course from among Sociology 352, 354, 356, 360, 410 or 430.

* Administration 380 or Political Science 380 may be used to complete one of the requirements in either discipline but may not be used to fulfill both.

Requirements for a minor in criminal justice: Criminal Justice 101 and 102; Criminal Justice 103 or Sociology 357 or 358 with departmental consent; Sociology 350; and two courses from among Sociology 352, 357, 358 or 359.

Students must complete Criminal Justice 101, 102 and 103 before taking upper-division courses in the major. (With the prior consent of the department, a student may substitute Sociology 352 or 354 for Criminal Justice 103.) Students should find it advantageous to complete Sociology 210 and 305 before taking their remaining upper-division sociology courses.
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. The setting of criminal justice standards and goals will also be emphasized.

102. INTRODUCTION TO CRIMINAL JUSTICE II
Historical development of the criminal law and its contemporary application. Theories of punishment and corrections will be reviewed, as they relate to the criminal justice system.

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).

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.

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.

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)
EARTH SCIENCE

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.

301. GEOLOGY OF CALIFORNIA
Geologic evolution of California, its structural framework and geomorphic provinces. Lecture only. Prerequisite: Earth Science 101.

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, 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)
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 six upper-division courses. With approval of a departmental advisor, up to two courses 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 two upper-division economics courses.

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.

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.
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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.

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.

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.

351. ECONOMICS OF MINORITY GROUPS
Economic issues and problems confronting ethnic and racial minorities in the United States; investigation of methods for alleviating these problems.

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.

370. THE AMERICAN ECONOMY
Development and structure of the American economy.

390. SELECTED TOPICS IN ECONOMICS
Examination of selected topics of current interest in economics. May be repeated for credit as topics change.

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.

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.

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.

450. ECONOMIC DEVELOPMENT
Economic problems confronting developing countries; policies hypothesized to achieve desired rates of economic development in these areas.

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.

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.
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.

490. INTRODUCTION TO ECONOMETRICS
Various statistical methods of testing economic hypotheses. Prerequisites: Economics 100, 102, Mathematics 110, and Administration 210, or equivalent.

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.

565. PROBLEMS IN PUBLIC FINANCE
Selected topics in public finance such as government sources and uses of revenue, expenditure evaluation and debt management. Prerequisite: Economics 475.

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.

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).
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:

- Single subject credential for teaching a single subject in a departmentalized school (all grades),
- 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),
- Multiple subjects teaching credential with emphasis in early childhood teaching in a self-contained classroom (all grades),
- Designated subjects teaching credential for technical, trade or vocational subjects,
- Designated subjects program supervision and coordination credential,
- Administrative services credential,
- Pupil personnel services credential in counseling,
- Bilingual/cross-cultural specialist credential,
- Early childhood specialist credential,
- Reading specialist credential,
- Special education specialist credential (learning handicapped).

The school offers a program leading to the Bachelor of Vocational Education degree. Further information about this degree is provided on Page 246.

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, early childhood education, special education and bilingual/cross-cultural education. An additional option in vocational education is under development. Inservice course work also is available to personnel currently employed in education or for those interested in learning more about the field. Course work also is offered for the fifth-year, clear credential.

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. Candidates 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.
   a. Undergraduate candidates must possess a minimum 2.5 grade-point average in all college course work, in course work in the major field and in professional education.
   b. Postbaccalaureate candidates must possess a minimum grade-point average of 2.5 in course work in the major field, in professional education and in the last 90 quarter units attempted.
5. Completion of an approved program in a major field or satisfactory completion of the required state examination.
6. A signed affidavit by the candidate indicating he has 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 the student intends to enroll in student teaching, the candidate 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, candidates 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 43A (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 188 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:

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Music B.A. Music 198
Physical science B.A. Chemistry 127
B.S. Chemistry 127
B.A. Physics 216
B.S. Physics (pending) 216
Social science B.A. Social Sciences 231

For further information on other majors, examinations and waivers, students should contact the School of Education.

Professional Requirements

Candidates electing the multiple subjects teaching credential with emphasis in early childhood teaching will take Education 331 (Growth and Development of the Young Child) or an approved equivalent course. They will also be required to take Education 342 (Curriculum and Methods for Early Childhood Education), Education 345 (Reading in the Elementary School), and Education 365 (Internship in Child Development) which provides field work at the preschool level.

All other candidates for a teaching credential must complete Education 330 (Psychological Foundations of Education). Those candidates for a multiple subjects teaching credential and candidates for a single subject teaching credential must complete a course on the teaching of reading or pass a state examination. These courses are: Education 345 (Reading in the Elementary School) or Education 445 (Teaching Reading and Writing in Secondary School Subjects).

The above two courses (or the passage of the examination) or the early childhood sequence are 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.

Students seeking the multiple subjects teaching credential must register for Education 370 (Elementary Student Teaching I), 10 units, and Education 340 (Elementary Curriculum and Methods I), 5 units, during the first quarter and Education 371 (Elementary Student Teaching II), 10 units, and Education 341 (Elementary Curriculum and Methods II), 5 units, during the succeeding quarter.

Students working toward the multiple subjects credential with emphasis in bilingual/cross-cultural teaching substitute Education 344 (Curriculum and Methods for Bilingual/Cross-Cultural Education) in place of Education 341 in the above program. Student teaching assignments will be in classes which are part of bilingual programs in the cooperating school districts. An emphasis in bilingual/cross-cultural studies is recommended within the undergraduate liberal studies major for students seeking this credential.

In addition to the foundations and reading courses, candidates for the single subject teaching credential (secondary) must complete Education 440 (Secondary Curriculum and Instruction I), before entering student teaching. Secondary candidates are assigned to student teaching according to the public school semester schedule. The fall class teaches from September to February, the spring class from February to June. Candidates enroll in Education 470 and 471 (Secondary Student Teaching I and II) for two consecutive quarters. In addition, candidates must enroll in one course concurrently with student teaching: Educa-
tion 441 (Secondary Curriculum and Instruction II) or a course in the candidate's discipline numbered 499 (methods and materials for teaching in a single subject field).

When a candidate has completed the requirements for the baccalaureate degree and two quarters of student teaching, he may apply for a preliminary credential. Within five years the candidate must complete a fifth year of study (45 quarter hours of approved upper-division and/or graduate course work beyond the B.A.) and meet the health education requirement to obtain a full credential. Candidates are advised that they may fulfill the health education requirements as undergraduates by taking one of the following courses:

Health Science 330. School and College Health Programs
Health Science 336. Drug and Alcohol Use and Abuse
Health Science 426. Environmental Education: Solving School-Community Health Problems
Health Science 435. Child and Youth Development: Health Aspects
Health Science 440. Family Health.

The designated subjects teaching credential which requires approved prior work experience consists of a core of three courses. Education 501 is required for the part-time credential. Education 501, 502 and 503 are required for the full-time credential. 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.

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.

331. GROWTH AND DEVELOPMENT OF THE YOUNG CHILD
Developmental characteristics of the young child, with special emphasis on family, child, preschool and school interaction.

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.

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.

342. CURRICULUM AND METHODS FOR EARLY CHILDHOOD EDUCATION
Principles, methods and materials of instruction appropriate for young children. Prerequisite: concurrent enrollment in Education 365 or consent of the early childhood coordinator.

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.
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.

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.

370. ELEMENTARY STUDENT TEACHING I
Full-time teaching in the public schools. To be taken concurrently with Education 340. Graded credit/no credit. Prerequisite: admission to the program. (10 units)

371. ELEMENTARY STUDENT TEACHING II
Full-time teaching in the public schools. To be taken concurrently with Education 341. Graded credit/no credit. Prerequisites: satisfactory completion of Education 370 and/or consent of advisor. (10 units)

440. SECONDARY CURRICULUM AND INSTRUCTION I
Introductory course in secondary curriculum and teaching methods with emphasis on instructional planning, strategies and evaluation, and classroom management. Prerequisite: Education 330 or concurrent enrollment in Education 330.

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.

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 tutoring is required. Prerequisite: Education 330 or concurrent enrollment in Education 330.

470. SECONDARY STUDENT TEACHING I
Full-time teaching in the junior or senior high school. Graded credit/no credit. Prerequisite: consent of advisor. (10 units)

471. SECONDARY STUDENT TEACHING II
Full-time teaching in the junior or senior high school. Graded credit/no credit. Prerequisites: satisfactory completion of Education 470 and/or consent of advisor. (10 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.

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 programs. Prerequisite: Education 501 or consent of instructor or coordinator of designated subjects.

503. ADVANCED METHODS AND MANAGEMENT IN TEACHING DESIGNATED SUBJECTS II
Consideration will be given to work experience programs, articulation, needs assessment, competency-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.
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.)

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.)

506. CONTEMPORARY ISSUES IN ADULT EDUCATION
Issues, trends and innovations in adult education.

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.

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.

532. TEACHING THE LEARNING HANDICAPPED CHILD
Causes, symptoms, diagnoses and remediation of specific learning disabilities. Special emphasis given to planning and evaluating programs for the educationally or neurologically handicapped child. Prerequisite: credential or teaching experience.

533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO
The Chicano’s quest for equal educational opportunity. Methods and techniques for introducing Chicano culture and its contributions into the traditional areas of the school curriculum. Developing cultural awareness of teachers to assist them in relating to and motivating Chicano students.

534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN
The Black American’s quest for equal educational opportunity. Methods and techniques for introducing Black culture and its contributions into the traditional areas of the school curriculum. Developing cultural awareness of teachers to assist them in relating to and motivating Black students.
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.

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.

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)

608. RESEARCH IN BILINGUAL/CROSS-CULTURAL EDUCATION
Survey of current research in bilingual/cross-cultural education and its application in the classroom.

610. RESEARCH METHODOLOGY IN EDUCATION
Principles of research design, methods of data collection and analysis.

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.

620. EFFECTIVE CLASSROOM COMMUNICATIONS
Tools and techniques of effective communication in the classroom. Emphasis on reading strategies.

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.
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.

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.

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.

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.

626. FIELD WORK FOR THE READING SPECIALIST  
On-site experiences for candidate to develop competencies in the development, supervision and administration of a variety of reading programs including state and federally funded projects. Prerequisites: Education 620, 621, 622, 624, 625, 631, 634, or consent of instructor. (2½ 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, 626, 629, 631, 634.

629. SPECIAL TOPICS IN READING  
Relevant issues, techniques and topics in reading. May be repeated for credit as topics change. (2½ units)

630. RESEARCH IN TEACHING AND LEARNING  
Survey of current research in teaching and learning.

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.

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.

636. COUNSELING PRACTICUM I  
Supervised practice in the application of counseling skills, theories and techniques. Prerequisites: Education 531, 619, 652, 656, 677, or consent of instructor.

640. ELEMENTARY SCHOOL CURRICULUM  
History, organization and operation of the elementary school; curriculum trends; newer practices in elementary education. Prerequisite: credential or teaching experience.

641. MEDIA AND STRATEGIES IN TEACHING  
An assessment of media used in instruction with emphasis on teaching strategies and principles of learning.
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.

650. EDUCATIONAL AND CAREER PLANNING
Theory of occupational choice, labor force data, and implementation and continuation of career advisement programs. Prerequisite: consent of instructor.

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.

653. THE PROFESSIONAL GUIDANCE WORKER
Ethics and legal aspects of counseling, especially applied to educational settings; utilization of community resources; consultation; in-service training. Prerequisite: consent of instructor.

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.

656. COUNSELING THEORIES AND TECHNIQUES
Theories and techniques of counseling; application to educational settings; experiential orientation. Prerequisite: Education 531 or consent of instructor.

657. COUNSELING PRACTICUM II
Supervised practice in counseling in a laboratory setting. Prerequisites: Education 636, 652, 656, 677, or consent of instructor, a grade of B or better in Education 636.

658. FIELD WORK IN COUNSELING
Supervised field work for prospective school counselors in educational settings. Seminars or conferences required. Prerequisite for Education 658A: Education 657 with a grade of B or better or consent of instructor. Prerequisite for Education 658B: Education 658A with a grade of B or better or consent of instructor. Education 658A and B may not be taken concurrently. A. (2½ units) B. (2½ 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.

661. CURRICULUM DEVELOPMENT FOR EARLY CHILDHOOD EDUCATION
Process of developing continuous progress curriculum, procedures for gathering learner information related to level of achievement and interest, criteria for selection of appropriate activities and materials to achieve long range goals. Introduces early childhood education curriculum models.

662. ADVANCED CURRICULUM METHODS FOR EARLY CHILDHOOD EDUCATION
Language development in young children; emphasis on integrated curriculum through creative methods of teaching the arts, science, mathematics, social studies, reading and language arts.

663. ADMINISTRATION AND SUPERVISION OF EARLY CHILDHOOD EDUCATION PROGRAMS
Principles of supervision of early childhood programs including differentiated staffing, staff development, preparation of project proposals and coordination of total program requirements in public and/or private schools.
664. FIELD WORK IN EARLY CHILDHOOD EDUCATION
Supervised field work in curriculum coordination, administration of early childhood education and adult leadership; regular conferences or seminars required. Prerequisite: consent of early childhood education coordinator. A. (2½ units) B. (2½ units) C. (2½ 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)

666. FOUNDATIONS OF EARLY CHILDHOOD EDUCATION
Philosophical points of view in early childhood education; how society historically treated the child and the educative process. Historical and philosophical background of present-day trends and issues in early childhood education. (2½ units)

671. ADMINISTRATION AND SUPERVISION OF THE ELEMENTARY SCHOOL
Principles and practices of elementary school administration, including personnel relations, instructional leadership, school organization, relationships with pupils and community. Prerequisites: Administration 302 and Education 673.

672. ADMINISTRATION AND SUPERVISION OF THE SECONDARY SCHOOL
Principles and practices of secondary school administration, including personnel relations, instructional leadership, school organization, relationships with pupils and community. Prerequisites: Administration 302 and Education 673.

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.

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 671 or 672.

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 671 or 672.

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.

678. COUNSELOR ASSESSMENT SEMINAR
Seminar involving assessment of counselor-trainee at culmination of program; research in and evaluation of counseling and guidance activities in education. Prerequisites: concurrent enrollment in Education 658B and consent of instructor.

680. SEMINAR IN COMPARATIVE EDUCATION
Comparison of educational theory and practice in certain selected countries.

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.

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.
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.

684. FIELD WORK IN SPECIAL EDUCATION
Supervised field work in special education; regular seminars required. Prerequisite: consent of special education coordinator. A. (2½ units) B. (2½ 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.

681. FIELD WORK IN BILINGUAL/CROSS-CULTURAL EDUCATION
Supervised teaching in the bilingual/cross-cultural classroom. Regular conferences or seminars required. Prerequisite: consent of instructor. A. (2½ units) B. (2½ units)

692. FIELD WORK OR INTERNSHIP IN SCHOOL ADMINISTRATION
Supervised field experiences in major aspects of school administration. Must be completed over two quarters. Prerequisite: consent of instructor. A. (2½ units) B. (2½ 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.

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.
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 170; a course in the study of language (English 311 or 500 or 505); a survey course in literature (English 110, 111, 120 or 121); an upper-division course in American literature (English 432 or 439); 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 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 89.

100. INTENSIVE ENGLISH
Intensive work in writing fundamentals. To be graded A, B, C/No Credit.

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: satisfactory score on the English placement test, or completion of the test and at least a grade of C in English 100.

110. WORLD LITERATURE I
Readings in Oriental and continental European literature to the Renaissance (in English translation).

111. WORLD LITERATURE II
Readings in Oriental and continental European literature from the Renaissance to the contemporary period (in English translation).

120. ENGLISH LITERATURE I
Readings in English literature from the Middle Ages to Milton.

121. ENGLISH LITERATURE II
Readings in English literature from Dryden to the contemporary period.

140. SURVEY OF AMERICAN LITERATURE
Readings in major figures in American literature from the Puritans to the present.

170. STUDIES IN LITERATURE
Analysis of the forms and content of literature.

300. ENGLISH WORKSHOP
An intensive refresher course in language fundamentals: diction, grammar and rhetoric. Emphasis on historic and cultural attitudes and their effects upon practical usage; concentration upon specific techniques. May not be counted toward fulfilling requirements in the English major.

301. ANALYSIS OF POETRY
An approach to an understanding of the literary experience through a study of structure and theme in selected lyric poems.

302. ANALYSIS OF DRAMA
An approach to an understanding of the literary experience through a study of structure and theme in selected plays. (Also offered as Theatre Arts 302. Students may not receive credit for both.)

303. ANALYSIS OF PROSE FICTION
An approach to an understanding of the literary experience through a study of structure and theme in selected pieces of narrative prose.
311. THE ENGLISH LANGUAGE
Introduction to the structure and development of the English language.

313. INTRODUCTION TO CREATIVE WRITING
Workshop in imaginative writing. Discussion of student writing and exemplary works by established authors.

315. STUDIES IN LITERARY GENRES
Intensive study in a particular genre. May be repeated for credit as topics change.

320. CHILDREN'S LITERATURE
History and development of children's literature; emphasis on developing skills in analyzing, evaluating and selecting books for children.

325. STUDIES IN MAJOR LITERARY FIGURES
Intensive study in two or more literary figures. May be repeated for credit as topics change.

333. MYTH AND EPIC
Myths and epics of folklore and of classical literature, emphasizing relationship to later Western literature.

335. STUDIES IN THE NOVEL
Studies in the novel with emphasis on close reading of specific texts.

370. THEORY AND PRACTICE OF NEWSPAPER JOURNALISM
Practice in writing and editing will be emphasized. Consideration of the press in its social and historical context.

371. TOPICS IN JOURNALISM
Special topics such as advanced editing and reporting, or magazine writing. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: English 370 or equivalent professional experience.

372. JOURNALISM PRACTICUM
Practical application of journalism skills. To be taken concurrently with, or subsequent to, English 370. May be repeated for credit for a total of not more than 6 units. Graded credit/no credit. (2 units)

385. INTRODUCTION TO LITERARY CRITICISM
The major issues in literary criticism considered in historical perspective.

394. WRITING SEMINAR
Advanced work in writing expository prose, with emphasis on the demands of the individual student's own discipline. Open to full-time students, except freshmen. May not be counted toward fulfilling requirements for the English major. Credit cannot be given for both English 394 and English 396. (2½ units)

396. ADVANCED COMPOSITION
Advanced expository writing. Credit cannot be given for both English 396 and English 394.

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 6 units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisites: consent of department. (Credit to be arranged: 1 or 2 units)
401. **ENGLISH LITERATURE OF THE MIDDLE AGES**  
Lyric, drama, prose and verse narrative from the beginnings of English literature through Malory.

403. **ENGLISH LITERATURE OF THE RENAISSANCE**  
Poetry, prose and drama (exclusive of Shakespeare) of the sixteenth century.

406. **SEVENTEENTH CENTURY LITERATURE**  
English prose and poetry from Bacon through Milton.

409. **ENGLISH LITERATURE OF THE RESTORATION AND EIGHTEENTH CENTURY**  
Emphasis on Dryden, Pope, Swift and Johnson.

412. **ROMANTIC PROSE AND POETRY**  
Major English romantics such as Blake, Wordsworth, Coleridge, Keats, Shelley and Byron.

415. **VICTORIAN LITERATURE**  
Major writers of Victorian England.

430. **AMERICAN LITERATURE I**  
Colonial and Federal American literature to the early nineteenth century.

432. **AMERICAN LITERATURE II**  
Romantic movement in American literature.

436. **AMERICAN LITERATURE III**  
Age of realism in American literature.

439. **BLACK LITERATURE**  
Literature by and about the Black man. Emphasis on the contribution of Black writers to the American cultural heritage.

442. **MODERN POETRY**  
Modern and contemporary poetry.

446. **MODERN FICTION**  
Modern and contemporary fiction.

450. **CLASSICAL DRAMA**  
Development of comedy and tragedy in Greece and Rome. (Also offered as Theatre Arts 450. Students may not receive credit for both.)

455. **MODERN DRAMA I**  
European, English and American realism. (Also offered as Theatre Arts 455. Students may not receive credit for both.)

456. **MODERN DRAMA II**  
European, English and American anti-realism. (Also offered as Theatre Arts 456. Students may not receive credit for both.)

475. **SHAKESPEARE I**  
Comedies and histories. (Also offered as Theatre Arts 475. Students may not receive credit for both.)

476. **SHAKESPEARE II**  
Tragedies and romances. (Also offered as Theatre Arts 476. Students may not receive credit for both.)
499. METHODS AND MATERIALS IN THE TEACHING OF ENGLISH
May not be counted toward fulfilling requirement of courses in the English major. Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.

500. GRAMMAR AND LINGUISTICS
An introduction to the attitudes, theories and techniques of modern grammar and linguistic science. Prerequisite: English 311 or Humanities 480.

505. HISTORY OF THE ENGLISH LANGUAGE
Development of the English language from the beginning to the present. Prerequisite: English 311 or Humanities 480.

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.

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.

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.

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. (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.

580. SEMINAR IN AMERICAN LITERATURE
May be repeated for credit with consent of instructor. Prerequisite: English 301 or 302 or 303, or graduate standing.

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.

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.

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.

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. (2½ 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 from the natural sciences, social sciences and humanities.

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
158 / Environmental Studies

PHYSICS 100. A SURVEY OF PHYSICS
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

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 370. SYMBIOSIS

BIOLOGY 450. ECOLOGY

BIOLOGY 464. TAXONOMY OF VASCULAR PLANTS

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

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. A SURVEY OF PHYSICS
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 370. SYMBIOSIS
BIOLOGY 450. ECOLOGY
BIOLOGY 319. LOCAL FLORA
BIOLOGY/GEOGRAPHY 460. BIOGEOGRAPHY
BIOLOGY 464. TAXONOMY OF VASCULAR PLANTS
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.
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 325. STUDIES IN MEXICAN AND CHICANO ART
ECONOMICS 351. ECONOMICS OF MINORITY GROUPS
EDUCATION 533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO
EDUCATION 534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN
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
HISTORY 391. CHICANO HISTORY
HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY
HISTORY 566. ETHNIC MINORITIES IN THE AMERICAN SOUTHWEST: PAST AND PRESENT
INTERDISCIPLINARY STUDIES 460. ASPECTS OF CHICANO CULTURE
MUSIC 350. MUSIC OF OTHER CULTURES
MUSIC 351. MEXICAN AND CHICANO MUSIC
MUSIC 352. AFRO-AMERICAN MUSIC
POLITICAL SCIENCE 306. DEVELOPING POLITICAL SYSTEMS
POLITICAL SCIENCE 350. POLITICS OF BLACK AMERICA
POLITICAL SCIENCE 351. THE CHICANO AND POLITICS
PSYCHOLOGY 337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN
PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO
SOCIAL SCIENCES 155. MINORITY GROUPS IN AMERICA
SOCIOLOGY 322. SOCIOLOGY OF THE GHETTO
SOCIOLOGY 341. MARRIAGE AND FAMILY AMONG BLACKS
SOCIOLOGY 342. THE CHICANO FAMILY
SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES
SOCIOLOGY 441. BLACK SOCIAL STRATIFICATION
SOCIOLOGY 442. CHICANO SOCIAL STRATIFICATION
SPANISH 440. MEXICAN LITERATURE
SPANISH 450. MEXICAN LITERATURE IN TRANSLATION
FOREIGN LANGUAGES AND LITERATURES

The Department of Foreign Languages and Literatures offers a wide variety of courses both in the foreign languages and in English. 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 226 (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.

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.

499. METHODS AND MATERIALS IN THE TEACHING OF FOREIGN LANGUAGES
May not be counted toward fulfilling requirement of courses in the French or Spanish major. Prerequisites: Education 330, senior or graduate standing, and admission to the teacher credential program.

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.

French

Requirements for the major: 12 courses in French or their equivalent, including 301. 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 a minor in French: French 101, 102, 103, 200, 301, and one additional course at the 300 level.

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.

102. ELEMENTARY FRENCH II
Continuation of French 101.

103. INTERMEDIATE FRENCH
Grammar, composition and conversation; discussion in French of literary texts. Prerequisite: French 102 or equivalent.

200. CONVERSATION AND COMPOSITION
Prerequisite: French 103 or equivalent.

210. INTRODUCTION TO LITERARY STUDY
Techniques of literary study and analysis. Explication de textes. Prerequisite: French 103 or equivalent.

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. ADVANCED FRENCH I
French phonology, with emphasis on improvement of the students' pronunciation. Prerequisite: French 200 or equivalent.

302. ADVANCED FRENCH II
Structure of the French language, with emphasis on improvement of the students' ability to write French. Prerequisite: French 200 or equivalent.

311. MASTERPIECES OF FRENCH LITERATURE I
Middle Ages and sixteenth century. Prerequisite: French 210 or equivalent.

312. MASTERPIECES OF FRENCH LITERATURE II
Seventeenth and eighteenth centuries. Prerequisite: French 210 or equivalent.

313. MASTERPIECES OF FRENCH LITERATURE III
Nineteenth century. Prerequisite: French 210 or equivalent.

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\(\frac{1}{2}\) 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.
German

The College does not offer a major program in German. Courses listed below will be offered as electives in support of other major programs.

Requirements for a minor in German: German 101, 102, 103, 202, 309, and one additional course at the 300 level.

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.

102. ELEMENTARY GERMAN II
Continuation of German 101.

103. INTERMEDIATE GERMAN I
Reading and discussion of modern German prose and poetry, grammar review, composition and conversation. Prerequisite: German 102 or equivalent.

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.

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. Prerequisite: German 103 or consent of instructor.

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.

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.

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.

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.

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.

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)
Spanish

Requirements for the major: proficiency in Spanish equal to that of Spanish 103 or its equivalent*, Spanish 202 and 204 and nine upper-division courses. The nine in the upper-division must include Spanish 301, 302, 406 or 407, 410 or 411, and two courses at the 500 level; the remaining three courses may be chosen at the student’s option, in consultation with an advisor, from courses in language, culture and civilization (Spanish 412, 414 and Humanities 460) and literature (Spanish 406, 407, 410, 411, 440, 450 [or Foreign Languages 450], 500, 503, 507, 508, 510 and 512).

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.

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.

101. ELEMENTARY SPANISH I
Fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish.

102. ELEMENTARY SPANISH II
Continuation of Spanish 101.

103. INTERMEDIATE SPANISH
Continuation of Spanish 101 and 102 stressing conversation and acquisition of reading skills.

202. GRAMMAR AND COMPOSITION
Comprehensive review of the principles of Spanish grammar, emphasizing their application to composition. Prerequisite: Spanish 103 or equivalent.

204. INTRODUCTION TO LITERARY TEXTS
Techniques of literary study and analysis. Vocabulary development. Prerequisite: Spanish 103 or equivalent.

206. ADVANCED CONVERSATION
Advanced practice of oral Spanish stressing the discussion of current topics. Panel discussions, debates, short talks, skits. Students may not enroll in more than one section per quarter. May be repeated for credit. May not be counted toward fulfilling requirements in the Spanish major. Prerequisite: Spanish 103 or equivalent. (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.

* 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.
302. THEORY AND PRACTICE IN COMPOSITION
Extensive practice in composition and style. May be repeated for credit. Prerequisite: Spanish 202 or 204 or equivalent.

310. PRACTICAL SPANISH FOR THE HEALTH PROFESSIONS
Preparation of professionals in basic conversational Spanish with emphasis on the vocabulary, the expressions and the cultural attitudes related to health. No previous knowledge of Spanish required. May not be counted toward fulfilling requirements in the Spanish major.

311. PRACTICAL SPANISH FOR TEACHERS
Extensive practice in the Spanish likely to be useful in classroom and playground situations. Designed especially for teachers who know little or no Spanish. May not be counted toward fulfilling requirements in the Spanish major.

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)

406. INTRODUCTION TO SPANISH LITERATURE I
Readings in sixteenth and seventeenth century Spanish literature from the Celestina to Calderon. Prerequisite: Spanish 204 or equivalent.

407. INTRODUCTION TO SPANISH LITERATURE II
Survey of Spanish literature and principal writers from Moratin to the contemporary period. Prerequisite: Spanish 204 or equivalent.

410. SPANISH-AMERICAN LITERATURE I
Survey of Spanish-American literature from the time of the Spanish conquest to the end of the nineteenth century. Prerequisite: Spanish 204 or equivalent.

411. SPANISH-AMERICAN LITERATURE II
Survey of Spanish-American literature from Modernismo to the present. Prerequisite: Spanish 204 or equivalent.

412. HISTORY OF THE SPANISH LANGUAGE
Evolution of Spanish from Vulgar Latin to its modern form, emphasizing the rules of phonetic change, linguistic influence of the various habitants of Spain and reading and discussion of selected medieval texts. Prerequisite: Spanish 301 or equivalent.

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.

440. MEXICAN LITERATURE
Survey of the development of Mexican literature from 1520 to the present. Prerequisite: Spanish 204 or equivalent.

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.

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.
503. **CERVANTES**
Don Quijote. Prerequisite: two 400-level literature courses or equivalent.

507. **NINETEENTH CENTURY SPANISH 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.

508. **TWENTIETH CENTURY SPANISH 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.

510. **SPANISH-AMERICAN NOVEL**
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.

512. **SPANISH-AMERICAN POETRY**
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.
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, four upper-division courses in geography. Only one of these courses may be drawn from the area studies group.

Track B requires that students take, in addition to the core, four upper-division courses in geography and/or related disciplines. These courses, 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: six courses in geography including the series 100, 103, 420. The remaining three courses can be chosen from any of the upper-division geography offerings with the restriction that only one can be an area study.

100. INTRODUCTION TO GEOGRAPHIC STUDIES: HUMAN DEVELOPMENT AND SETTLEMENT
Analysis of human society as expressed through man’s occupance and utilization of the land.

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.
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.

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.

309. AREA STUDY: SOVIET UNION
Regional analysis of socio-economic development and environmental problems.

321. AREA STUDY: LATIN AMERICA
Regional analysis of socio-economic development and environmental problems.

350. CONSERVATION AND NATURAL RESOURCES
Principles of resource utilization and ecology as they involve human development and politico-economic policy.

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.

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.

380. POPULATION GEOGRAPHY
Spatial distribution and redistribution of population; interrelationships between population and the environment, including techniques of analysis.

390. SELECTED TOPICS IN GEOGRAPHY
Examination of selected topics of current interest in geography. May be repeated for credit as topics change.

410. REGIONAL PLANNING AND RESOURCE DEVELOPMENT
Application of concepts of location, spatial organization and spatial interaction to regional planning and resource development.

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.

440. URBAN GEOGRAPHY
Description and classification of cities, analysis of their distribution, and a study of the external and internal relations of urban areas.

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.

550. SEMINAR IN GEOGRAPHY
Intensive study of some phase of geography. May be repeated for credit with instructor’s consent.
555. INDEPENDENT STUDY
A total of 10 units in Geography 555 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.

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.
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 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 71 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.

The environmental health component of the curriculum is approved by the Sanitarian Registration Certification Advisory Committee of the California State Department of Health Services. Students preparing to be eligible for admittance to the state sanitarian registration examination must be certified by the environmental health coordinator that they met the following specific curriculum: Health Science 120, 352-353, 354, 356, 366, 371, 372, 400, 451, 458, 470, 496, and 497A-497B; 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, 225, 122 and 226 or 221, 225, 222 and 226; English 101 or Theatre Arts 120. Students who wish to obtain the Bachelor of Science in Health Science and prepare for the state sanitarian registration examination as well must complete the requirements of the major plus such additional courses as listed above.
Inquire at the Health Science and Human Ecology Department Office, Physical Sciences Building, Room 219 (Telephone 887-7348 or 887-7370) 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; Chemistry 205, 206, 207; or 215, 216, 225; or 215, 216, 206; Physics 100 or 121 and 225 or 221 and 225; Health Science 120, 352, 354, 356, 366, 371, 451, 470, 496, 497B and 15 units of health science electives.

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.

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.

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. (2 ½ 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.

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.

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. Prerequisite: Health Science 120.

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. (2 ½ 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.
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.

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.

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.

354. CONSUMER PROTECTION, HEALTH AND ENVIRONMENTAL LAW
Legal basis for health practice and environmental regulation. Interface between man's technological abilities and his functions as a citizen-consumer. Roles of Food and Drug Administration, Consumer Product Safety Commission, Department of Agriculture and state and local health departments in protection of the consumer. (2½ 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. (2½ 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.

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. (2½ 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. (2½ units)

371. ORGANIZATION AND FUNCTION OF COMMUNITY HEALTH SERVICES
Consideration and comparison of traditional and current programs in official and voluntary health agencies.

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.
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.

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.

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. LAND USE: ENVIRONMENTAL HEALTH FACTORS RELATED TO NOISE, AIR OR WATER
Planning and environmental health aspects of land use with special reference to factors significant in an environmental impact report. Every time course is offered, one topic (noise, air or water) is discussed in depth and in relation to other topics. May be repeated for credit as topics change. (2½ 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.

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.

422. HEALTH PLANNING
Health planning systems and procedures. Prerequisite: Health Science 371 or consent of instructor.

423. HEALTH ASPECTS OF AGING
Issues and problems affecting the health status of the aged. Medical aspects of patients in long-term care facilities.

425. HEARING CONSERVATION AND NOISE MEASUREMENT
Principles of audiology and noise measurements and their application to environmental and industrial hearing conservation programs. (2½ 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. (2½ 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.

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.
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. (2½ 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.

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.

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.

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.

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.

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.

496. PRE-FIELD STUDY PRACTICUM
Preparation for field study/research assignments. (2½ units)

497. FIELD STUDY: ACTION/RESEARCH IN HUMAN ECOLOGY AND HEALTH
Individual and team field studies and research in agencies with activity relevant to the student's career goals and interests. May be repeated for a maximum of 10 units. Prerequisite: Health Science 496 or consent of instructor. A. (5 units) B. (5 units)

498. RESEARCH METHODOLOGY IN HEALTH SCIENCE
Research methods and their application to contemporary health and environmental problems. Prerequisites: Health Science 451 and Mathematics 150 or 350, or consent of instructor. (2½ 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)
HISTORY

History has been called the "extension of memory" which enables one to utilize past experiences. History, of course, is for the prospective teacher; it also provides excellent training for a future in law, journalism, politics or governmental careers.

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, Latin American and African 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: 10 courses in history, including History 200, 201, 300, 301 and 490, and at least five other upper-division courses in history. (Students who receive credit for both History 402 and 403 are excused from the requirement of History 300). With the approval of the departmental advisor, up to two upper-division courses 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.

Requirements for a minor in history: six courses, at least four 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 five courses shall be selected by the student and advisor from the appropriate ethnic studies concentration; three of the courses must be in history. Courses specified will be listed as an option contract to be filed with the Dean of Academic Planning.

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.
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.

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.

301. MODERN EUROPE, 1815 TO THE PRESENT
Institutions, culture, and political development of Europe from the Congress of Vienna to the present.

322. THE CLASSICAL WORLD
Survey of major developments in Western civilization from the rise of Greece to the fall of Rome.

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.

334. BLACK HISTORY II: THE AMERICAN EXPERIENCE
Black people in America from the 17th century to the present day.

350. THE AMERICAN COLONIES 1607-1783
The thirteen colonies from European origins to the attainment of independence.

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.

354. CIVIL WAR AND RECONSTRUCTION
Background and causes of the Civil War and the problems of Reconstruction.

356. THE UNITED STATES, 1877-1917
Transformation of the nation between the end of Reconstruction and entrance into World War I.

357. THE UNITED STATES, 1917-1945
Principal developments in American life from World War I to the end of World War II.

359. THE UNITED STATES SINCE 1945
Major changes in the United States since the end of World War II.

370. HISTORY OF CALIFORNIA
Political, economic, social and cultural development of California from Spanish times to the present. A. California to 1865. (2 1/2 units) B. California 1865–Present. This segment of the course will meet the state code requirement in California state and local government. (2 1/2 units)

390. HISTORY OF MEXICO
Survey of Mexican history from early Indo-American civilizations to the present.

391. CHICANO HISTORY
Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest.

395. TOPICS IN HISTORY
Examination of topics of interest in history. May be repeated for credit as topics change.

402. RENAISSANCE AND REFORMATION
Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648.
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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.

408. THE DEVELOPMENT OF 20th CENTURY EUROPE, 1890–1945
Europe from the turn of the century period to the end of World War II.

420. ECONOMIC HISTORY OF THE UNITED STATES
Economic history of the United States from the founding of the colonies to the present.

469. COLONIAL LATIN AMERICA
Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period.

470. MODERN LATIN AMERICA
Survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America.

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.

500. TUDOR AND STUART ENGLAND
Principal political, social, economic and religious developments of England from 1485 to 1688.

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.

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.

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 the Constitution of the United States. Prerequisite: History 200 or 201, or Political Science 410 or consent of instructor.

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.

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.

560. HISTORY OF THE AMERICAN WEST
Survey of the western expansion of the American nation.

565. ETHNIC MINORITIES IN AMERICAN HISTORY
Historical perspective of the major ethnic groups, their efforts to assimilate and their interaction with American society.
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.

570. AMERICAN URBAN HISTORY
Historical consideration of the city in U.S. history from colonial times to the present.

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.

593. SEMINAR IN HISTORY
Intensive study of some phase of history. May be repeated for credit with consent of instructor.
HUMANITIES

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 236 (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 A are: Art 306, 308, 311, 314, 316, 317, 318, 321, 324, 325, 327, 397, 413, 423, 426; Music 350, 351, 352, 360, 400, 416; Theatre Arts 340, 343, 445, 451, 461, 481.

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.

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.

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.

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.

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.

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.
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.

480. INTRODUCTORY LINGUISTICS
Scientific study of language as a system: sound, meaning and word-ordering systems; sub-systems (dialects), writing systems.

496. SELECTED TOPICS IN HUMANITIES
Seminar in special topics chosen from arts or humanities. May be repeated with change of topic.

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, 336, 351, 470; Psychology 100, 387; Social Sciences 155; Sociology 100, 318, 352 or 354, 356, 401, 410; Human Services 305; Human Services 400 or Sociology 473, Psychology 328 or 329 or Sociology 339, and 15 units of field service/internship chosen from Health Science 496, 497A, 497B and/or Sociology 575, selected in consultation with an advisor.

Up to five units in field service/internship may be accepted in transfer.

Lower-division core:

- 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

Upper-division courses:

- HEALTH SCIENCE 336. DRUG AND ALCOHOL USE AND ABUSE
- HEALTH SCIENCE 351. FOODS, NUTRITION AND HEALTH
- HEALTH SCIENCE 470. HEALTH BEHAVIOR AND COMMUNITY HEALTH EDUCATION
- HEALTH SCIENCE 496. PRE-FIELD STUDY PRACTICUM
- HEALTH SCIENCE 497A and B. FIELD STUDY: ACTION/RESEARCH IN HUMAN ECOLOGY AND HEALTH
- PSYCHOLOGY 328. PSYCHOLOGY OF ADOLESCENT DEVELOPMENT
- PSYCHOLOGY 329. PSYCHOLOGY OF ADULTHOOD AND AGING
- PSYCHOLOGY 387. COMMUNITY PSYCHOLOGY
SOCIOLOGY 318. SOCIAL WELFARE POLICIES AND SERVICES

SOCIOLOGY 339. SOCIALIZATION

SOCIOLOGY 352. JUVENILE OFFENDER

SOCIOLOGY 354. DEVIANT BEHAVIOR

SOCIOLOGY 356. SOCIOLOGY OF MENTAL ILLNESS

SOCIOLOGY 401. SOCIAL ORGANIZATION

SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES

SOCIOLOGY 473. INTERVIEWING IN SOCIAL WORK

SOCIOLOGY 575. INTERNSHIP IN SOCIOLOGY AND SOCIAL WORK

305. RESEARCH METHODS IN THE HUMAN SERVICES
Basic methods of research in the human services including collection, sampling, and interpretation of demographic data. Techniques to assess selection, placement and training procedures of human services personnel. Methods of evaluating the effectiveness of programs in achieving their goals.

400. HUMAN SERVICES COUNSELING
Techniques of behavior change used by the human service worker including rehabilitation, re-motivation, and environmental modification. Basic communication skills, counselor attitude and behavior, and group counseling methodology will be discussed, practiced, and experienced during the course.
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 Page 85.

100. WORDS AND IDEAS
A course combining English 101 and Philosophy 105. Students must complete I.S. 100A and I.S. 100B before credit can be granted for either. I.S. 100A must be taken before I.S. 100B. 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 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 54 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 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 54 for comprehensive examination limitations. A. (7½ units) B. (7½ 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 54 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.

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 Office of Academic Planning, Administration Building, Room 196 (Telephone 887-7521) for further information about the liberal studies program and academic advising and counseling.*

Basic program 126 units

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (including grammar, literature,</td>
<td>32</td>
</tr>
<tr>
<td>composition and speech)</td>
<td></td>
</tr>
<tr>
<td>Mathematics and the physical and life sciences</td>
<td>30</td>
</tr>
<tr>
<td>Social sciences</td>
<td>32</td>
</tr>
<tr>
<td>Humanities and the fine arts (including foreign languages)</td>
<td>32</td>
</tr>
<tr>
<td>Field of concentration</td>
<td>18</td>
</tr>
<tr>
<td>Physical education activity</td>
<td>6</td>
</tr>
<tr>
<td>Free electives</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>186 units</td>
</tr>
</tbody>
</table>

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.

English (32 units)

Two courses in composition:

- English 101
- English 394 (English 396 may be a substitute)
One course in literary analysis:
  English 301 or 302 or 303

One course in language:
  English 311 or 500 or 505

Electives (14 1/2 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 (32 units)
  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, 482; Theatre Arts 320; Music 200, 205, 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 the Department of English).

Social sciences (32 units)
  Three courses in civilization:
    Social Sciences 140, 142, 144, 146, 150, 155, 160, 165
    Social Sciences 497 or History 370A or History 370B
  Electives (14 1/2 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 (30 units)
  One course in basic mathematics:
    Mathematics 100 or 120 or 200
  One course in applied mathematics:
    Mathematics 150 or Mathematics 301 or Computer Science 140
  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 (10 units) *
    Five units must be upper-division. Selections are to be made from the course offerings of the School of Natural Sciences.

* 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, 336, 337, 426, 435 or 440.
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
- Bilingual/cross-cultural
- English
- French
- German
- Music
- Philosophy
- Spanish
- Theatre Arts
- Administration
- Anthropology
- Child Development
- Economics
- Geography
- History
- Political Science
- Psychology
- Sociology
- Biology
- Chemistry
- Mathematics
- Physics

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 (32 units)**
- Two courses in composition:
  - English 101
  - English 394 (English 396 may be a substitute)
- One course in literary analysis:
  - English 301 or 302 or 303
- One course in language:
  - English 311 or 500 or 505
- Electives (14½ 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 (32 units)**
- One course in the arts:
  - 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 325, Foreign Language 450, Humanities 460, Music 351, Spanish 302, Spanish 440, Spanish 450
- Two units of humanities activity to be chosen from Art 201, 203, 204, 304, 354, 357, 395, 397, 482; Theatre Arts 320; Music 200, 205, 220, 221, 222, 380 through 391

**Social Sciences (32 units)**
- Three courses in civilization, to be chosen from Social Sciences 140, 142, 144, 146, 150, 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 (30 units)
One course in basic mathematics, to be chosen from:
- Mathematics 100, 120, 200
One course in applied mathematics, to be chosen from:
- Mathematics 150, 301
One course in the life sciences:
- Biology 100 or 202
- Health Science 120
One course in the physical sciences:
- Physics 100 or Chemistry 100
One lower or upper-division elective from the course offerings of the School of Natural Sciences.

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 325. STUDIES IN MEXICAN AND CHICANO ART
EDUCATION 533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO
EDUCATION 534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN
†FOREIGN LANGUAGES 450. MEXICAN LITERATURE IN TRANSLATION
†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. MEXICAN CULTURE
INTERDISCIPLINARY STUDIES 460. ASPECTS OF CHICANO CULTURE
†MUSIC 351. MEXICAN AND CHICANO MUSIC
†POLITICAL SCIENCE 351. THE CHICANO AND POLITICS
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†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, 311-312, 331, 551 and 15 units in upper-division electives, not to include Mathematics 301, 302, 350 or 499, chosen in consultation with the advisor. Physics 221, 225, 222, 226 and 223 are recommended for mathematics majors.

Requirements for the bachelor of science degree: Computer Science 140, Mathematics 200-201-202-203, 311-312, 331, 551, 556, 572 and 10 units of upper-division electives, not to include Mathematics 301, 302, 350 or 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. Physics 221, 225, 222, 226 and 223 are strongly recommended.

The required core of the major programs (Mathematics 311-312, 331, 551) 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 140 and Mathematics 200-201-202, 311 and 331.
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.

100. THE IDEAS OF MATHEMATICS
Topics include inductive and deductive reasoning, mathematical patterns, methods of counting, basic concepts of probability and statistics.

110. INTRODUCTION TO COLLEGE MATHEMATICS
Set theory, inequalities, absolute value, algebraic functions, graphing, systems of equations, linear algebra.

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 their equivalent.

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.

200. BASIC CONCEPTS OF CALCULUS
An introduction to differentiation and integration of functions in one variable, with applications.

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.

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.

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 202 with a grade of C or better or consent of the department chairman.

301. MODERN ARITHMETIC
Various mathematical systems and their arithmetics. This course is designed for non-mathematics majors.

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.
311. INTRODUCTION TO ABSTRACT ALGEBRA I
Axiomatically defined real number system and its subsystems; mappings and relations; abstract systems. Prerequisite: consent of advisor.

312. INTRODUCTION TO ABSTRACT ALGEBRA II
Groups, rings and fields. Prerequisite: Mathematics 311 or consent of instructor.

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. Prerequisite: Mathematics 203 or consent of instructor.

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.

410. MATHEMATICAL MODELING
Applications in science, ecology, industry, business, medicine, education and libraries. Computer simulations using models in demography, economics and ecology. Prerequisite: Mathematics 203.

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.

444. PROBABILITY AND STATISTICS I
Sample spaces, combinatorics, random variables and moments. Additional topics may include: estimation, joint distributions, moment generating functions, stochastic processes and hypothesis testing. Prerequisites: Mathematics 203 and either 311, 331, or consent of instructor.

445. PROBABILITY AND STATISTICS II
Continuation of Mathematics 444. Prerequisites: Mathematics 444.

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.)

520. GRAPH THEORY
Graphs and subgraphs including Eulerian, planar and Hamiltonian graphs, adjacency and incidence matrices, trees and topological parameters. Prerequisite: Mathematics 311. (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: consent of department. (2½ units)

539. GEOMETRY
Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. Prerequisites: Mathematics 312 and 331 or consent of instructor.

551. ANALYSIS I
Continuous and differentiable functions; infinite series; Riemann and improper integrals. Prerequisites: Mathematics 203 and 311 or consent of instructor.
552. ANALYSIS II
Uniform convergence, computation with series, functions represented by integrals, Fourier series, Lebesgue measure and integration. Prerequisite: Mathematics 551 or consent of instructor.

556. ORDINARY DIFFERENTIAL EQUATIONS
First order equations, systems of first order equations, fundamental existence and uniqueness theorems; linear equations, existence and uniqueness theorems for linear equations; boundary value problems, oscillation theorems, special functions, stability theory. Prerequisite: Mathematics 331 or consent of instructor.

561. FUNCTIONS OF A COMPLEX VARIABLE
Complex numbers, derivatives and integrals of analytic functions, the geometry of elementary functions, Cauchy's integral theorem and formula; Laurent expansions and evaluation of contour integrals by residues. Prerequisite: Mathematics 311 or consent of instructor.

568. NUMBER THEORY
Topics from the theory of numbers including congruences, Diophantine equations, and a study of prime numbers. Prerequisite: Mathematics 311 or consent of instructor.

572. MODERN ALGEBRA
Polynomials over integral domains, algebraic and transcendental extension of number fields, Galois theory. Prerequisite: Mathematics 312.

581. TOPOLOGY
An introduction to point set topology; general topological and metric spaces. Prerequisite: Mathematics 312.

595. INDEPENDENT STUDY
An independent study course for senior mathematics majors. Prerequisites: Mathematics 331 and 551, 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)
MUSIC

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: 65 units distributed as follows: Music 111, 112, 113, 314, 315, and a minimum of three units of applied music at the upper-division level; 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; and Option I or Option II.

Option I. 37 units selected in consultation with a faculty advisor. This option is open to all students, but is especially suited as preparation for careers in performance or teaching at the college level.

Option II. Music 210, 304, 305, 306, 350, and a minimum of five units selected in consultation with a faculty advisor from Music 200, 201, 202, 203, 204 and 205. This option is open to all students, but is especially suited as preparation for the Ryan Act single subject teaching credential in music.

Attendance at the weekly departmental recitals is also encouraged each quarter in residence, and participation in one or more of the major performance groups is expected.

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.

Degree requirements in music are in the process of revision. Contact the Music Department for further details.

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.

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 two hours of laboratory. Prerequisite: Music 100 or equivalent or placement examination.

112. THEORY II
Continuation of Music 111. Lecture and two hours of laboratory. Prerequisite: Music 111 or equivalent or consent of instructor.

113. THEORY III
Continuation of Music 112. Lecture and two hours of laboratory. Prerequisite: Music 112 or equivalent or consent of instructor.

314. THEORY IV
Melody, harmony and texture as they relate to musical structure; extension of tonality and its eventual evolution into twentieth-century practice; analysis of representative compositions; continuation of sightsinging, ear and keyboard training. Lecture and two hours of laboratory. Prerequisite: Music 113 or equivalent or consent of instructor.

315. THEORY V
Continuation of Music 314. Lecture and two hours of laboratory. Prerequisite: Music 314 or equivalent or consent of instructor.

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.

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.

304. HISTORY OF MUSIC I
Development of Western music from antiquity through the Renaissance, with emphasis on analysis, listening and individual study. Prerequisite: Music 113 or consent of instructor.

305. HISTORY OF MUSIC II
Continuation of Music 304. Baroque to the late nineteenth century. Prerequisite: Music 113 or consent of instructor.

306. HISTORY OF MUSIC III
Continuation of Music 305. Late Romantic to the present. Prerequisite: Music 113 or consent of instructor.

400. STUDIES IN COMPOSERS
Intensive study into works of a particular composer. Content will vary. May be repeated for credit.
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402. STUDIES IN FORMS
Intensive study into a particular form. Content will vary. May be repeated for credit.

405. SEMINAR IN CHORAL LITERATURE AND CONDUCTING
Prerequisite: completion of Music 113 or consent of instructor.

407. STUDIES IN ORCHESTRAL LITERATURE AND ORCHESTRATION
Prerequisite: completion of Music 113 or consent of instructor.

420. MEDIEVAL AND RENAISSANCE MUSIC

421. BAROQUE MUSIC

422. MUSIC IN THE CLASSIC ERA

423. NINETEENTH CENTURY MUSIC

424. TWENTIETH CENTURY MUSIC

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.

351. MEXICAN AND CHICANO MUSIC
Musical cultural heritage of Mexico and its relation to the American community.

352. AFRO-AMERICAN MUSIC
Historical development of the Afro-American musical heritage.

360. MUSIC IN THE UNITED STATES
Primarily concerned with music not directly related to Western European classical traditions: folk heritage and blues tradition.

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. SEMINAR IN ELECTRONIC COMPOSITION

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.

200. CLASS VOICE
Fundamentals of singing, voice production and diction. (2 units)

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)

210. CONDUCTING
Introduction to basic conducting techniques. (2 units)

220. CLASS PIANO I
Basic keyboard techniques designed for the music major, the elementary school teacher and the liberal arts student without keyboard experience. Placement examinations are given at the beginning of each quarter. Prerequisite: approval of department chairman and consent of instructor. (1 unit)

221. CLASS PIANO II
Basic keyboard techniques designed for the music major, the elementary school teacher and the liberal arts student. Placement examinations are given at the beginning of each quarter. Prerequisites: approval of department chairman and consent of instructor. (1 unit)

222. CLASS PIANO III
Basic keyboard techniques designed for the music major, the elementary school teacher and the liberal arts student. Placement examinations are given at the beginning of each quarter. Prerequisites: approval of department chairman and consent of instructor. (1 unit)

302. MUSIC THEATRE PRODUCTION
(2 units)

499. METHODS AND MATERIALS IN THE TEACHING OF MUSIC
May not be counted toward fulfilling requirement of courses in the music major. Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.

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.

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)

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)

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)
NATURAL SCIENCES

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.

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.

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.

350. NATURAL PHENOMENA
Physical principles underlying natural phenomena and illusions, such as earthquakes, continental drift, geomagnetism, tides, weather, rainbows, auroras and mirages.

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.

410. HISTORY AND DEVELOPMENT OF SCIENTIFIC THOUGHT
Major developments in the natural sciences which have changed man's concept of himself and the universe. A seminar course open to students in all majors.

432. ENERGY AND ITS UTILIZATION BY MAN
Present and future energy sources, including fossil fuels, hydroelectric power, nuclear energy and solar energy. Emphasis is placed on scientific principles and technological requirements for developing energy sources, economic factors and environmental problems associated with energy production and consumption. A seminar course open to students in all majors.

495. EXPOSITORY WRITING FOR THE NATURAL SCIENCES
Expository writing with emphasis on research reports and technical review papers. Prerequisite: English 101, Philosophy 105 or consent of instructor.
NURSING

The Department of Nursing offers a two-year upper-division program leading to the Bachelor of Science degree with a major in nursing. Courses are provided which include theoretical content and its applications in the care of patients across the life span with a wide range of health care needs. The intent of the program is to graduate generalists in nursing who are concerned with promoting optimum health in a variety of settings.

Inquire at the Nursing Department Office, Biological Sciences Building, Room 109 (Telephone 887-7346) for further information about the nursing program and academic advising and counseling.

Admission
In addition to the requirements for admission to the College as a transfer student, the following criteria must be met prior to admission to the nursing program:

1. Lower-division requirements:
   a. Completion of an associate degree in nursing, or its equivalent.
   b. Current California license as a registered nurse.
   c. Completion of a minimum of one year’s work experience as a registered nurse is recommended.
   d. Junior standing in the College.
   e. Completion of one college-level course in each of the following: chemistry, mathematics, microbiology, anatomy-physiology and growth and development.

2. Departmental admission procedures:
   a. Students should complete and return the nursing department application forms, which are enclosed with their letters of acceptance from the College.
   b. Students are to obtain appointments from the department secretary for counseling with a faculty member prior to registration. Advisement is required in order to register. Nursing achievement examinations will be administered and their scores used for counseling purposes.
   c. The curriculum sequence is planned to accept students into the nursing program twice each year, in the fall and winter quarters.
   d. Students are responsible for submitting a medical report of a recent physical examination (including chest X-ray or tuberculosis skin testing), indicating that they are able to engage in the activities required to meet the expectations of the program.

3. Departmental regulations:
   a. 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.
b. Students on academic probation must remove grade point deficiencies before progressing further in the nursing 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.

c. Nursing students must carry malpractice insurance in order to be admitted to clinical courses.

d. Students are required to have access to transportation for their clinical experiences.

e. Clothing required by the field placement agency, appropriate for that setting, must be provided by students, with appropriate identification by name and school.

f. Students may enroll in only one clinical course (lecture and laboratory) per quarter.

g. Students must take the lecture and corresponding laboratory concurrently (e.g., Lecture A and Lab A, etc.)

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); Natural Sciences (300, 310, 350, 351); Social Sciences (300, 304, 315, 321).

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.

302. TRENDS IN NURSING CARE, ROLES, EDUCATION
Introductory course designed to assist students in developing the professional role. Prerequisites: admission to nursing program, including completion of college-level courses in mathematics, chemistry, microbiology, anatomy/physiology, and growth and development.

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. Prerequisite: admission to the nursing program.

314. HEALTH ASSESSMENT AND MAINTENANCE I: ADULT/AGED
Bio-psycho-social-environmental health assessment; planning health promotion and illness prevention of the adult/aged by applying the nursing process. Prerequisites: Nursing 302 and Biology 310. Corequisite: Nursing 315 and 380.
315. HEALTH ASSESSMENT AND MAINTENANCE LABORATORY I: ADULT/AGED
Clinical practice in skills of health assessment, planning health promotion and illness prevention of the adult/aged by applying the nursing process. Corequisite: Nursing 314 (4 units)

316. HEALTH ASSESSMENT AND MAINTENANCE II: MOTHER/CHILD
Bio-psycho-social-environmental health assessment; planning health promotion and illness prevention of the mother/child by applying the nursing process. Prerequisite: Nursing 314. Corequisite: Nursing 317.

317. HEALTH ASSESSMENT AND MAINTENANCE LABORATORY II: MOTHER/CHILD
Clinical practice in skills of health assessment; planning health promotion and illness prevention of the mother/child by applying the nursing process. Corequisite: Nursing 316. (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. Prerequisites: Nursing 302 and Biology 310.

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, 316 and 380. Corequisite: Nursing 411.

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. 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: Nursing 410, Mathematics 350 and Health Science 451.

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 472 and Health Science 451. Corequisite: Nursing 431.

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. 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 410 and Health Science 371. 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. 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)
PARALEGAL STUDIES

The courses listed below are offered in support of the certificate program in paralegal studies, Page 88. 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.

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.

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.

372. TORT LAW
Legal liability for wrongful interference with the person; tangible property, real and personal; intangible interests; and advantageous relations.

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.

376. FAMILY LAW AND COMMUNITY PROPERTY
Formation and dissolution of the family unit: custody, support, property rights and obligations.

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.

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.
PHILOSOPHY

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 248 (Telephone 887-7446) for further information about the philosophy program and academic advising and counseling.

Requirements for the major: 10 courses including two courses from the history sequence (Philosophy 301, 305, 307); one course 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: four courses chosen from Philosophy 320, 340, 355, 362, 365, 465.

Up to three courses 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 two additional upper-division elective philosophy courses, plus a minimum of four full-term courses, or equivalent proficiency, in one foreign language (preferably French, German, Latin or Greek), with attainment of demonstrable reading skill.

Requirements for the minor: six philosophy courses, no more than two of which may be lower division; the six must include at least one from the sequence of readings in the history of philosophy: 301, 305; and one 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.
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.

190. STUDIES IN PHILOSOPHY
Introduction to the analysis of philosophic problems centered on things done, things known and things made. Intensive group discussion is based on writings from Greek, medieval, early modern and contemporary philosophers.

301. GREEK AND ROMAN PHILOSOPHY
Major philosophic movements from the Pre-Socratics and Plato to the Stoics, Epicureans, Sceptics and Mystics.

305. MODERN PHILOSOPHY, SIXTEENTH-NINETEENTH CENTURIES
Roots of modern philosophy and science from Galileo and Descartes to Hegel and Marx.

307. CONTEMPORARY PHILOSOPHY
Recent directions in philosophy such as existentialism, phenomenology, positivism, pragmatism, ordinary language, structuralism, analysis and the like.

312. PHILOSOPHY OF LOGIC
Inquiry into diverse systems and conceptions of logic, ancient to modern.

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.

320. PHILOSOPHY OF EDUCATION
An inquiry into some characteristic problems, through consideration of works by authors such as Plato, Rousseau, Newman and Dewey.

340. PHILOSOPHY OF MAN
Inquiry into traditional and contemporary views of the nature of man and their implications for human life.

350. ETHICS
Analysis of problems intrinsic to human action, through the study of alternative formulations offered by some great philosophers, present and past.

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.

357. FEMINISM: PHILOSOPHICAL ISSUES
Examination of philosophical and ethical issues raised by contemporary feminism.

360. POLITICAL PHILOSOPHY
Some important ancient, medieval and modern works are examined systematically to illuminate issues concerning community action.

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.
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.

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.

380. BEING, EXISTENCE AND KNOWING
Inquiry into first principles underlying reflection on the nature of the universe, man and his attempts to achieve knowledge.

450. MAN'S SEARCH FOR GOD OR GODS
A probing of some significant ideas about God and the philosophy of religion.

465. PHILOSOPHY OF LAW
Intensive study of the concept of law and its relation to power, command, reason, nature, justice, prediction.

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.
The primary objectives of the Physical Education and Recreation Department are to emphasize the benefits of active recreation for all adults and to offer minor programs in the fields of physical education and recreation.

The department seeks to achieve total student involvement in some phase of its program—classes, intramurals or recreation. With the variety of activities available, students can develop, improve and maintain optimum physical fitness; develop and practice useful sport skills; enjoy wholesome physical recreation or vigorous intramural competition; and acquire desirable life-long attitudes for healthful adult living.

Requirement for graduation: each student is 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. Activities such as badminton, basketball, racquetball, squash, tennis and volleyball are offered on the courts, and the playing fields provide for archery, golf, soccer, softball and other field sports. Other activities include aquatics, combatives, dance, gymnastics and body conditioning.

Students who are over 25 years of age are not required to take physical education classes but 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.

Classes are coeducational except where the nature of the activity deems it inappropriate.

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.

Requirements for a minor in physical education: Physical Education 180, 200, 300, 340, 350 and a course in school health; two of the following: Physical Education 140, 150, 332 and 365; and three additional two-unit courses offered by the department.

Requirements for a minor in recreation: Physical Education 171, 180, 200, 271, 361 and 410; two of the following: Physical Education 140, 150, 332 and 365; and three additional two-unit courses offered by the department.

For information on intramurals or recreational use of the physical education facilities by students, contact the Physical Education and Recreation Department office, Room P.E. 120.

All two-unit physical education courses are graded credit/no credit. The total number of physical education activity units (courses numbered below 150 or their equivalent) which can be used toward graduation is twelve.
110. INDIVIDUAL SPORTS (2 units)
A. Archery
B. Badminton
C. Bicycling
D. Bowling
E. Boating and canoeing
F. Golf
G. Handball
H. Horseshoes
I. Lawn bowling
J. Racquetball
K. Skiing
L. Squash racquets
M. Tennis

111. BODY CONDITIONING (2 units)
A. Circuit training
B. Jogging
C. Weight training
D. Yoga

112. GYMNASTICS
Basic instruction in gymnastics, tumbling and trampoline. (2 units)

113. COMBATIVES (2 units)
A. Boxing
B. Fencing
C. Karate
D. Wrestling

120. TEAM SPORTS (2 units)
A. Basketball
B. Field hockey
C. Soccer
D. Softball
E. Speedball
F. Touch (flag) football
G. Volleyball
H. Water polo

130. SWIMMING AND DIVING
Beginning, intermediate, advanced. Instruction at all levels, includes springboard diving. (2 units)

131. LIFE SAVING
To meet the standards for Red Cross certification. (2 units)

134. AQUATIC GAMES AND ACTIVITIES
Includes experiences in organizing and playing games such as water basketball, water polo, water volleyball and water ballet. (2 units)

135. SKIN DIVING
Principles of underwater swimming with mask, snorkel and fins. Basic physiology of diving. Instruction in selection, use and care of equipment. (2 units)

136. SCUBA DIVING
Physiology, physics and principles of underwater swimming with and without underwater breathing apparatus. Instruction in selection, use and care of equipment. To meet requirements for NAUI certification, field trips are required. Prerequisites: doctor's physical examination and either passing Physical Education 135 or consent of instructor. (2 units)
A. Beginning
B. Intermediate
C. Advanced

140. DANCE (2 units)
A. Ballet
B. Folk
C. Modern
D. Square
E. Jazz
F. Social

145. OUTING SKILLS
Basic outing skills including selection and care of a campsite, planning and preparation of meals and erecting of an adequate shelter. (2 units)
A. Backpacking
B. Mountaineering
C. Camp cooking
150. SPORTS OFFICIATING
Techniques for sports officials and referees and experience working in intramural sports program. (2 units)

171. INTRODUCTION TO RECREATION
Orientation to recreation as a profession. Meaning, content, history, philosophy and scope of the field of recreation.

180. SPORTS SUPERVISION
Organization and supervision of recreational sports for school or community participation. (2 units)

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)

271. RECREATION LEADERSHIP
Organization, supervision and administration of recreation programs and practical experience in recreational activity situations in which leadership skills can be developed. Prerequisite: Physical Education 171 or consent of instructor.

300. SCHOOL GAMES AND RHYTHMS
Experiences in developing a physical education program for elementary school children. (2 units)

332. WATER SAFETY INSTRUCTION
Materials and methods in organizing school, community and camp aquatic programs. Supervised practice in teaching aquatics. To meet standards for Red Cross certification for teaching all levels of swimming, life saving and small craft safety. Prerequisite: current advanced life-saving certificate. (2 units)

340. ORGANIZATION AND CONDUCT OF PHYSICAL EDUCATION
History, philosophy, organization, administration and methods of teaching physical education.

350. FIELD WORK IN PHYSICAL EDUCATION
Supervised leadership experience in school physical education class or intramural program. Prerequisite: Physical Education 340.

361. RECREATION PROGRAMMING
Materials and methods used in planning and conducting programs in recreation, such as social recreation, dramatics, art, sports. Prerequisite: Physical Education 171.

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. Field trips to observe camp facilities, programs and sources are required.

410. FIELD WORK IN RECREATION
Supervised leadership experience in a recreation agency. Prerequisites: Physical Education 271 and 361.
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, Physical Sciences Building, Room 319 (Telephone 887-7344) for further information about the physics program and academic advising and counseling.

Requirements for the bachelor of arts degree: Physics 221, 225, 222, 226 and 223, and 25 additional upper-division units in physics; 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, 225, 222, 226 and 223, and 40 units selected from the following: 311, 312, 313, 405, 411, 413, 430 and 440; Chemistry 215 or equivalent; 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, to be 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. A SURVEY OF PHYSICS
Advances in physics which have influenced man's visualization of the universe. This course is intended for students with little background in science and mathematics. Lecture and two hours of laboratory.

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: Mathematics 200 with a grade of C or better. Pre- or corequisite: Mathematics 201. Corequisite: Physics 225. (4 units)

222. STATIC AND DYNAMIC ELECTRICITY
Lecture only. Prerequisites: Physics 221 and Mathematics 201 both with a grade of C or better. 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.

225. PHYSICS LABORATORY I
Laboratory accompanying Physics 121 or 221. (2 units)

226. PHYSICS LABORATORY II
Laboratory accompanying Physics 122 or 222. (2 units)

305. ELECTRONICS FOR SCIENTISTS
Electrical measurement techniques and basic electronics. Lecture and 4 1/2 hours of laboratory. Recommended preparation: some background in laboratory work. (2 1/2 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.

312. RELATIVITY
Lecture only. Prerequisite: Physics 222 and 226.

313. ELECTRODYNAMICS
Derivation and applications of Maxwell's equations. Lecture only. Prerequisite: Physics 311.

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.

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.

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.

430. ADVANCED PHYSICS LABORATORY
Selected advanced experiments appropriate to a student's previous preparation. May be repeated for credit. Prerequisite: Physics 222 and 226. (2 1/2 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 many 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 chairman. With approval of the department chairman, 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:** six courses including Political Science 200 and 203, and at least four upper-division political science courses chosen in consultation with an advisor.

**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 Page 85.

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)

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.

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.

300. WESTERN POLITICAL SYSTEMS
Major Western political systems.

304. COMMUNIST POLITICAL SYSTEMS
Examination of the relationships among communist political systems.

306. DEVELOPING POLITICAL SYSTEMS
Political systems, governmental structures, political orientation and foreign policies of developing nations. Emphasis may be on Asia, Africa or Latin America. May be repeated for credit as subject matter changes.

310. CLASSICAL POLITICAL THOUGHT
Classical political thought through a consideration of representative political thinkers such as Plato, Aristotle, Thucydides, Cicero, Lucretius.

311. FOUNDATIONS OF MODERN POLITICAL THOUGHT
Major political ideas of the early modern period ranging from Machiavelli through Hobbes, Locke, Rousseau and Burke.

313. CONTEMPORARY POLITICAL THOUGHT
Contemporary political ideas and thinkers ranging from Hegel and Marx through Lenin, Gandhi and Mao.

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.

320. THE LEGISLATIVE PROCESS
Law-making processes in the United States and/or other selected political systems.

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 1/2 units of credit as topics change.) Prerequisite: consent of instructor. (2 1/2 units)

325. AMERICAN FOREIGN POLICY
Political analysis of American foreign policy with emphasis on foreign policy making in the nuclear age.
326. POLITICAL PARTIES AND INTEREST GROUPS
Organization, objectives, and activities of political parties and political interest groups and their functions in modern political systems.

328. JUDICIAL PROCESS
Process of judicial decision-making with emphasis on factors influencing that process and concepts of judicial roles.

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.

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.

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.

350. POLITICS OF BLACK AMERICA
Black liberation ideologies and attempts at their implementation within the American political system.

351. THE CHICANO AND POLITICS
Political factors affecting the contemporary Mexican-American community; involvement, organization and role of the individual in the political process.

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.)

400. INTERNATIONAL POLITICS
Selected theories and evolving patterns of international politics as developed within the nation-state system.

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.

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.

428. FORMULATION OF PUBLIC POLICY
Basic approaches to public policy analysis, emphasizing interaction between substance and process in policy development.

431. THE AMERICAN PRESIDENCY
Office and institution of the presidency of the United States.
440. VOTING BEHAVIOR
Factors related to voting behavior and other forms of political involvement, including analysis and interpretation of electoral decisions.

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.

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.

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.

500. INTERNATIONAL LAW
Historical basis and present trends in the development of international law.

510. INTERNATIONAL ORGANIZATION
History, structure and dynamics of the United Nations and other multi-national organizations.

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.

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.

560. INTERGOVERNMENTAL RELATIONS
Administrative and political dynamics of relationships among national, state and local units of government. Prerequisite: senior standing.

570. THE NATIONAL GOVERNMENT AND THE NATIONAL ECONOMY
Interaction of political and economic power illustrated through a review of major contemporary issues and activities in national affairs.

575. INTERNSHIP IN POLITICAL SCIENCE
Supervised work and study in public and private organizations. May be repeated once for credit. Prerequisites: consent of instructor and department.

580. SEMINAR IN PUBLIC POLICY
Political aspects of administrative systems with emphasis on public policy process in advanced and less developed countries.

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.

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.
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)
PSYCHOLOGY

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, perception and motivation 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, 200, 300, 311, 498; one course chosen from 431, 432, 433, 434, 435, 451; four additional upper-division courses in psychology (Psychology 201 may be substituted for one of these four); and either Mathematics 150, Psychology 210, or Social Sciences 215. The department offers alternatives for fulfilling some requirements with non-classroom study; see the departmental secretary for details.

Requirements for a minor in psychology: Psychology 100, 200, and at least four electives in psychology, three of which must be upper-division courses.

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, (2) score at or above the 90th percentile on the advanced psychology area test of the Graduate Record Examination, or (3) complete an acceptable undergraduate thesis. Satisfactory completion of requirements for departmental honors must be certified by the department chair. 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.

200. ADVANCED GENERAL PSYCHOLOGY
Scientific study of behavior emphasizing the systematic development of principles. Prerequisite: Psychology 100.

201. DEVELOPMENTAL PSYCHOLOGY
Introduction to the psychological development of the person. Prerequisite: Psychology 100 or equivalent.

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.

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 200.

311. INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY
Design and execution of psychological research. Lecture and laboratory. Prerequisites: Psychology 200, 300; and one of the following: Psychology 210, Mathematics 150 or Social Sciences 215. (6 units)

325. PSYCHOLOGY OF INFANCY
Prenatal, neonatal and infant development. Prerequisites: Psychology 100 and 201 or their equivalents.

328. PSYCHOLOGY OF ADOLESCENT DEVELOPMENT
Physiological, cognitive, moral, personality and sex-role development from puberty through young adulthood. Prerequisites: Psychology 100 and 201, or consent of instructor.

329. PSYCHOLOGY OF ADULTHOOD AND AGING
Psychological processes of development during the adult years. Prerequisites: Psychology 100 and 201, or consent of instructor.

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.

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.

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.

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.
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.

351. BEHAVIOR MODIFICATION: PRINCIPLES AND APPLICATIONS
Analysis of the theory, techniques and ethics of behavior modification. Prerequisite: Psychology 100 or consent of instructor.

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.

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 or equivalents.

361. LEARNING AND MEMORY
Research and theories in areas of animal and human learning, memory and problem solving. Prerequisite: Psychology 200.

365. COMPARATIVE ANIMAL BEHAVIOR
An introduction to the study of animal behavior from a biological-psychological viewpoint. Particular emphasis will be placed on differentiating physiological, environmental and evolutionary determinants of behavior. Prerequisite: Psychology 200 or consent of instructor.

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 or equivalent. (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 or equivalent.

377. TESTS AND MEASUREMENTS
Administration of psychological tests and scales; interpretation and use of the data which they yield. Prerequisites: Psychology 200 and one of the following: Psychology 210, Mathematics 150 or Social Sciences 215.

382. PSYCHOLOGY OF SOCIAL BEHAVIOR
Major concepts, issues and psychological research regarding social influence on individual behavior. Prerequisite: Psychology 100.

384. PERSONALITY AND SOCIAL DEVELOPMENT
Development of personality, emotions and social behavior. Prerequisites: Psychology 100 and 201 or equivalents.

385. PERSONALITY
Survey of the major theories of personality. Prerequisite: Psychology 100 or consent of instructor.

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 or equivalent.
388. SPECIAL COMPREHENSIVE EXAMINATION IN PSYCHOLOGY CORE CURRICULUM
Independent study, without required classroom meetings, of the subject matter appropriate to three
courses required for the major: Psychology 100, 200 and 300. Prerequisite: consent of instructor.
Refer to Page 54 for comprehensive examination limitations. (15 units)

390. ABNORMAL PSYCHOLOGY
An introduction to psychopathology, emphasizing the major interpretations and treatments of emo­
tional and behavioral disorders. Prerequisite: Psychology 385 or equivalent.

391. PSYCHOPATHOLOGY OF CHILDHOOD
Psychological and emotional disorders of children with special emphasis on diagnostic and clinical
treatment. Prerequisites: Psychology 100 and 201 or equivalents.

395. PSYCHOLOGY OF CONSCIOUSNESS
Human consciousness from the perspectives of the experiential, behavioral and physiological psy­
chology literatures. Includes survey of research and theory on topics such as waking consciousness,
dreams, meditation and altered states of consciousness. Prerequisite: Psychology 100 or equivalent.

431. EXPERIMENTAL PSYCHOLOGY: DEVELOPMENTAL
Selected research areas in the field of developmental psychology. Includes review of current litera­
ture and experimental techniques in developmental research. Lecture and laboratory. Prerequisite: 
Psychology 311 or consent of instructor. (6 units)

432. EXPERIMENTAL PSYCHOLOGY: PERCEPTION
Selected research areas in the fields of sensory and perceptual processes. Includes literature review 
and experimental analysis. Lecture and laboratory. Prerequisite: Psychology 311. (6 units)

433. EXPERIMENTAL PSYCHOLOGY: PHYSIOLOGICAL
Introduction to the neural and endocrine processes underlying brain function and behavior. Lecture 
and laboratory. Prerequisite: Psychology 311 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. Prerequi­
site: 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)

451. EXPERIMENTAL PSYCHOLOGY: LEARNING AND MOTIVATION
Selected theories and research in areas of learning and motivation. Includes literature review and 
experimental analysis. Lecture and laboratory. Prerequisite: Psychology 311. (6 units)

490. COUNSELING PSYCHOLOGY
Presentation of basic concepts, methods, and procedures pertaining to diagnostic and therapeutic 
activities of the counselor. Prerequisites: Psychology 377, 390 and senior standing.

498. HISTORY AND SYSTEMS OF PSYCHOLOGY
A senior-level course intended to provide students with a historical framework for integrating basic 
orrientations in contemporary psychology. Prerequisites: Psychology 311 and senior standing.

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 corre­
lates. Lecture only. (Also offered as Biology 542. Students may not receive credit for both.) Prerequi­
sites: senior or graduate standing and consent of instructor.
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.

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.

585. GROUP COUNSELING
Introduction to group counseling based on theories and methods derived from personality theory and social psychology. Includes study of theory and application of methods for facilitating group counseling. Prerequisites: Psychology 490, senior standing and advanced written consent of instructor.

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.

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.

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.

610. ADVANCED METHODS IN PSYCHOLOGICAL RESEARCH
Various experimental designs used in psychological research and their relation to selected statistical procedures such as analysis of variance. Prerequisite: Psychology 570 or equivalent or consent of instructor.

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 570 or Psychology 610; 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 570 or 610 and Psychology 611.

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.

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.

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.

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, 6878 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.

683. CHILD ASSESSMENT
Training in methods of intellectual and personality assessment with children. Prerequisite: classified status in M.S. in Psychology program.

684. TOPICS IN COUNSELING PSYCHOLOGY
Selected topics within counseling psychology. May be repeated for credit as topic changes. Prerequisites: Psychology 671, 672 and 673.

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)

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 570 and/or 610; Psychology 611; advancement to candidacy.
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 seven courses may be selected from any one department. Of the seven courses comprising the principal field, no more than three may be from the lower division. In each secondary field, no more than two courses 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 core or support 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 seven courses (primary) in one of the following fields, plus four courses 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 principal field of concentration.

An ethnic studies supporting field may be obtained by taking Social Sciences 155 (Minority Groups in America) and three upper-division ethnic studies courses from within the School of Social and Behavioral Sciences. No course may be used in a supporting field which has been used in any other part of the social sciences major.

Departmental requirements for social sciences major:

ANTHROPOLOGY:

Primary field: (7 courses)
- Anthropology 100, Anthropology 102, three courses numbered Anthropology 300-390, two courses numbered Anthropology 455-595.

Secondary field: (4 courses)
- Anthropology 100 or Anthropology 102; plus two courses numbered Anthropology 300-390 and one course numbered Anthropology 455-595.
ECONOMICS:

Primary field: (7 courses)
Economics 100, Economics 102, Economics 300, Economics 302, one 300-level economics course and two 400- or 500-level economics courses.

Secondary field: (4 courses)
Economics 100, Economics 102, two upper-division economics courses.

GEOGRAPHY:

Primary field: (7 courses)
Geography 100, Geography 103, Geography 420, four upper-division geography courses. However, no more than two of these four upper-division elective courses can be an area study.

Secondary field: (4 courses)
Geography 100 or Geography 103, Geography 420 and two upper-division geography courses. However, only one of these two upper-division courses can be an area study.

HISTORY:

Primary field: (7 courses)
History 200, History 201, History 300, History 301, three upper-division history electives.

Secondary field: (4 courses)
History 200 and History 201, or History 300 and 301, and two upper-division history electives.

POLITICAL SCIENCE:

Primary field: (7 courses)
Political Science 200, Political Science 203, one course from each of the following fields: American government and politics, comparative politics, international relations, political behavior, political theory.

Secondary field: (4 courses)
Political Science 200 and one upper-division course from each of three of the five fields listed above.

PSYCHOLOGY:

Primary field: (7 courses)
Psychology 100, Psychology 200, Psychology 210, four upper-division psychology electives.

Secondary field: (4 courses)
Psychology 100, Psychology 200, two upper-division psychology electives.

SOCIOLOGY:

Primary field (7 courses)
Sociology 100, Sociology 210, Sociology 305; one of the three: Sociology 310, Sociology 312 or Sociology 360; three upper-division sociology electives.

Secondary field: (4 courses)
Sociology 100; one of the three following: Sociology 310, Sociology 312 or Sociology 360; two 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.

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.

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.

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.

150. **CONTEMPORARY CIVILIZATION: IDEAS AND INSTITUTIONS**
Political and economic systems and institutions of modern society and the issues confronting them. This course meets the State Code requirement in California state and local government.

155. **MINORITY GROUPS IN AMERICA**
Black, Mexican-American and other minority groups as approached from the perspectives of history and the social sciences.

160. **CONTEMPORARY CIVILIZATION: VALUES AND BEHAVIOR**
Interpretation of contemporary society in the light of the knowledge and theories of sociology, anthropology and psychology.

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.

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.

300. **NONWESTERN WORLD**
Historical, political, social, geographic and economic aspects of nonwestern societies.

304. **CONTEMPORARY LATIN AMERICA**
Social, economic and political conditions and institutions in contemporary Latin America.

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.

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.
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330. INTRODUCTION TO 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.

412. PEASANT CULTURES IN THE MODERN WORLD
Village life in the developing countries, with special reference to their increasing involvement in the "revolution of rising expectations" and the new national, social, political and economic movements. A seminar course open to students in all majors.

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 teacher credential program.
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, 472); criminology (350, 352, 354, 357, 358, 359); urban sociology.
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(322, 364, 410, 420, 430, 432, 438, 440, 441); social organization (340, 368, 380, 400, 401, 420, 432, 437, 438, 439, 440); sociological methods and theory (306, 360, 363, 400, 401, 405, 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.

100. THE STUDY OF SOCIETY
Survey of the basic characteristics and dynamics of society and culture from the sociological perspective.

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.

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.

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.

306. SOCIOLOGICAL RESEARCH: SELECTED TOPICS
Supervised observation and study of selected populations, institutions and agencies as on-going social processes. May be repeated once for credit. Prerequisite: consent of instructor. Recommended: prior completion of Sociology 305.

310. HISTORY OF SOCIOLOGICAL THEORY
Historical development of classical sociological theory.

312. CONTEMPORARY SOCIOLOGICAL THEORY
Contemporary sociological theory, including an examination of origins, trends, schools and areas of controversy. Prerequisite: Sociology 310.

318. SOCIAL WELFARE POLICIES AND SERVICES
Historic and current social welfare policies and services. A comparative evaluation of the United States and other world programs, policy and expectations with emphasis on philosophy, values and ethics.

322. SOCIOLOGY OF THE Ghetto
Existing theories relating to ghetto life styles; the relationship of these to American society as a whole.

330. SOCIAL GERONTOLOGY
Age-status and age-roles in American society, with cross-cultural comparisons including intergenerational conflict and other age-related behaviors.
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.

340. SOCIOLOGY OF THE FAMILY
A systematic and comparative analysis of family structure and change: marriage, reproduction, child-rearing, marital problems.

341. MARRIAGE AND FAMILY AMONG BLACKS
Forces affecting the Black family, with emphasis on the roles assigned to individual members.

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.

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.

346. SEX ROLES: INEQUALITY
Cross-cultural analysis of systems of sex inequality, emphasizing the maintenance of and changes in these systems.

350. CRIMINOLOGY
Causes of crime with emphasis on sociological factors.

352. JUVENILE OFFENDER
Causes of juvenile delinquency, types of juvenile offenders, the juvenile court, legal aspects of delinquency and methods of rehabilitation.

354. DEVIANT BEHAVIOR
Deviant modes of human adjustment to modern society; processes of personal-social interaction in development of individual and group deviation.

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.

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.

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.

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.

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.
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.

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.

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.

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.

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.

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.

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.

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 54 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.

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.

405. ADVANCED SOCIAL STATISTICS
Statistical techniques dealing primarily with multivariate analysis, tests of significance, tests for interaction, measures of association, regression analysis, factor analysis and path analysis. Prerequisite: Sociology 210 or equivalent.

410. RACIAL AND CULTURAL MINORITIES
Minority group status in contemporary American society.

420. POPULATION PROBLEMS
Social causes and consequences of population trends.
430. **URBAN SOCIOLOGY**
Nature, causes and consequences of urbanization; metropolitan areas; location and types of cities; social and demographic characteristics of urban populations.

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.

434. **COMMUNITY ORGANIZATION**
Programs of action, operative and proposed, for the organization of the community and the solution of its problems.

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; examination of field and laboratory research on small groups.

436. **GROUP DYNAMICS**
Dynamics and principles involved in social group work, including psychotherapy groups.

438. **INDUSTRIAL SOCIOLOGY**
Human relations in industry, both formal and informal, with special attention to problems of morale, productivity, decision-making and bureaucratic structure.

439. **MILITARY SOCIOLOGY**
The military institution—its functions and role in the modern state; socialization of its officers and men.

440. **POWER AND PRIVILEGE**
Class, caste and other systems of social stratification with particular reference to the United States.

441. **BLACK SOCIAL STRATIFICATION**
Caste in America, comparison of Black and white stratification, Black social mobility.

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.

472. **SOCIAL ROLES AND SOCIAL INTERACTION**
The nature of face-to-face contact and role behavior among persons in social interaction in everyday life. The relations between the social self, social roles and communication in the day-to-day activities of persons in informal groups, closed establishments and in public places.

473. **INTERVIEWING IN SOCIAL WORK**
Basic interviewing methodology and techniques utilized by social workers in communicating with people who are experiencing adjustment problems.

480. **HUMAN GROWTH AND SOCIAL ENVIRONMENT**
Ways in which societies lighten the conflicts of childhood with a promise of some security, identity and integrity.

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.
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 54 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.

540. SOCIOLOGY OF EDUCATION
Sociological analysis of educational organizations; the relationship of such organizations to culture, social class and power; and the roles of teachers, students and administrators.

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.

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.

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 with consent of instructor.
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 Coordinator of Interdisciplinary Studies, stating his academic and professional reasons and outlining his 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: 10 five-unit upper-division theatre arts courses, including 330, 340, 343; 441 or 443; three courses in dramatic literature (450 to 476). Also required are 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.

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.

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.
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.

300. ELEMENTS OF PUBLIC SPEAKING

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.)

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.

320. THEATRE PRACTICUM
Application of theatre for an audience. Students will concentrate on acting, or technical production, for an intensive period. Open to all full-time students except freshmen. May be repeated for credit up to a total of ten units. No more than ten units for theatre practicum and music performance may be used to satisfy graduation requirements. (2 units)

325. FORENSICS PRACTICUM
Activity course to prepare students for intercollegiate forensics competition. No more than 10 units of credit may be awarded for practicum courses (Theatre Arts 320, 325). (2 units)

330. DESIGN
Consideration of the aesthetics and history of scenic, costume and lighting design and their influence on theatrical production. Study of the elements of line, color, light and stage composition; assigned projects requiring drafting of ground plans and elevations, and rendering of original designs. Prerequisite: Theatre Arts 230 or 320 or consent of instructor.

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.

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.

343. ORAL INTERPRETATION FOR THE THEATRE
Techniques for the oral performance of drama, including literary and aesthetic analysis of plays.

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.

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.

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.
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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.

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.

450. CLASSICAL DRAMA
Development of comedy and tragedy in Greece and Rome. (Also offered as English 450. Students may not receive credit for both.)

451. MYSTERY TO MELODRAMA
Development of drama from medieval passion plays to late 19th century villain-hissing melodramas. Emphasis on either comedy or tragedy.

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.)

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.)

461. AMERICAN DRAMA
Survey of the American theatre and its drama (Dunlap to Odets) as they reflect the changing patterns of American society.

475. SHAKESPEARE I
Comedies and history plays. (Also offered as English 475. Students may not receive credit for both.)

476. SHAKESPEARE II
Tragedies and romances. (Also offered as English 476. Students may not receive credit for both.)

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.

499. METHODS AND MATERIALS IN THE TEACHING OF THEATRE ARTS
May not be counted toward fulfilling requirements of courses in the theatre arts major. Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.

510. STUDIES OF MAJOR FIGURES AND GENRES
May be repeated for credit with consent of instructor.

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.

520. THEATRE SEMINAR
Literature and theory relative to aesthetics, theatre history, drama and dramatic criticism. May be repeated for credit with consent of instructor.
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.
VOCA T I O N A L E D U C A T I O N

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.:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower-division general education *</td>
<td>60</td>
</tr>
<tr>
<td>Upper-division general education</td>
<td>10</td>
</tr>
<tr>
<td>Major in vocational arts **</td>
<td>45</td>
</tr>
<tr>
<td>Designated subjects (credential program) and education electives</td>
<td>40</td>
</tr>
<tr>
<td>Prescriptive electives</td>
<td>31</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>186</td>
</tr>
</tbody>
</table>

* 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 1979–80

William V. Ackerman, 1972
Associate Professor of Geography; Chair, Department of Geography

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.

George Akst, 1976
Lecturer in Mathematics
B.S. 1970, City College of the City University of New York; M.S. 1972, Ph.D. 1974, University of Illinois.

Marilyn D. Ambrose, 1978
Assistant Professor of Education
B.S. 1952, St. Mary's College; M.A. 1967, Valparaiso University; Ph.D. 1977, Purdue University.

Gene L. Andrusco, 1977
Lecturer in Administration
B.S. 1972, M.B.A. 1975, California State University, Los Angeles.

Melvin William Aussieker, Jr., 1974
Associate Professor of Administration

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

Joe Bas, 1968
Professor of Spanish
Frances F. Berdan, 1973
*Associate Professor of Anthropology; Chair, Department of Anthropology*
B.A. 1965, M.A. 1967, Michigan State University; Ph.D. 1975, University of Texas.

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 A. Blackey, 1968
*Professor of History*

Marty Bloomberg, 1966
*Assistant Director of the Library*

Sheldon E. Bockman, 1973
*Associate Professor of Administration*

Stephen A. Bowles, 1974
*Associate Professor of Education; Dean of Continuing Education*
B.A. 1960, University of Denver; M.A. 1964, University of Connecticut; Ph.D. 1972, University of California, Santa Barbara.

Dominic M. Bulgarella, 1969
*Associate Professor of Sociology*

A. Vivien Bull, 1976
*Lecturer in French*
B.A. 1942, Cambridge University; M.A. 1973, Ph.D. 1977, University of New Mexico.

Michael R. Burgess, 1970
*Assistant Librarian*
A.B. 1969, Gonzaga University; M.S. in L.S. 1970, University of Southern California.

Rosellen Burkart, 1978
*Assistant Professor of Nursing*
B.S.N. 1966, University of Windsor; M.S.N. 1977, Wayne State University.

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.
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Ralph S. Carlson, 1978
Lecturer in English

John S. Chaney, 1972
Associate Professor of Administration
B.S. 1966, University of Southwestern Louisiana; M.B.A. 1968, Ph.D. 1971, University of Texas.

Ralph James Charkins, 1976
Assistant Professor of Economics

C. Charles Christie, Jr., 1972
Associate Professor of Administration

Frederick T. Chuang, 1978
Lecturer in Theatre Arts

Stella Clark, 1971
Associate Professor of Spanish
B.A. 1964, University of Mississippi; M.A. 1966, Ph.D. 1971, University of Kansas.

K. Michael Clarke, 1976
Assistant Professor of Administration
B.A. 1969, M.A. 1970, University College Dublin; Ph.D. 1975, University of Georgia.

Wallace T. Cleaves, 1971
Associate Professor of Psychology
B.A. 1963, California State College, Hayward; M.A. 1966, California State College, Los Angeles; Ph.D. 1971, University of California, Riverside.

Frances S. Coles, 1978
Assistant Professor of Sociology; Coordinator, Criminal Justice

Carolyn K. Corine, 1978
Lecturer in Education

Gloria A. Cowan, 1973
Professor of Psychology; Chair, Department of Psychology
B.A. 1959, University of Pennsylvania; M.S. 1961, Ph.D. 1964, Rutgers University.

John H. Craig, 1971
Associate Professor of Chemistry
B.S. 1964, George Washington University; Ph.D. 1969, Georgetown University.
Robert E. Cramer, 1978
Lecturer in Psychology

James D. Crum, 1966
Professor of Chemistry; Dean, School of Natural Sciences
B.Sc. 1952, Ohio State University; M.Sc. 1953, Marshall University; Ph.D. 1958, Ohio State University.

Paul R. Curnow, 1977
Lecturer in Music
B.S. 1972, Wayne State University; M.A. 1976, University of Denver.

Erma D. Davis, 1975
Assistant Professor of Education
B.Mus.Ed. 1959, Texas Southern University; M.Ed. 1971, Ph.D. 1975, Texas Women’s University.

David L. Decker, 1971
Associate Professor of Sociology

Margaret S. Doane, 1976
Assistant Professor of English
B.A. 1970, University of Redlands; M.A. 1971, Northern Arizona University; Ph.D. 1976, University of Oregon.

G. Keith Dolan, 1967
Professor of Education

Leo G. Doyle, 1971
Associate Professor of Art

Alfred S. Egge, 1966
Professor of Biology
B.A. 1957, California State College, Long Beach; M.S. 1959, Ph.D. 1962, University of Arizona.

Amer El-Ahraf, 1973
Professor of Health Science; Chair, Department of Health Science and Human Ecology
D.V.M. 1962, Cairo University; M.P.H. 1965, Dr.P.H. 1971, University of California, Los Angeles.

Stuart R. Ellins, 1973
Associate Professor of Psychology

William D. Engs, 1976
Assistant Professor of Administration
Edward J. Erler, 1975
Assistant Professor of Political Science; Chair, Department of Political Science

Paul Esposito, 1976
Director of Placement

Loren H. Filbeck, 1972
Associate Professor of Music

John S. Fine, 1970
Assistant Professor of Sociology

James J. Finley, 1973
Professor of Administration

Lawrence E. Finsen, 1978
Lecturer in Philosophy
B.A. 1973, Lake Forest College.

Marvin D. Frost, 1976
Assistant Professor of Geography
B.A. 1963, Chico State College; M.S. 1971, Ph.D. 1974, Oregon State University.

Catherine C. Gannon, 1976
Associate Professor of English; Associate Dean of Academic Planning

Ernest F. Garcia, 1968
Professor of Education
B.A. 1955, University of California, Riverside; M.A. 1960, University of Redlands; Ed.D. 1966, University of California, Los Angeles.

Eugene Garver, 1974
Associate Professor of Philosophy

William D. Gean, 1976
Assistant Professor of Philosophy
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David R. Gerling, 1978
Lecturer in Spanish
B.A. 1965, Marist College; M.A. 1968, New York University; Ph.D. 1975, University of Arizona.

Margaret K. Gibbs, 1975
Associate Professor of Administration; Chair, Department of Public Administration
B.A. 1936, M.S. 1941, University of Southern California; Ph.D. 1974, Claremont Graduate School.

Priscilla S. Gilbertson, 1978
Lecturer in Education

Bruce Golden, 1965
Professor of English

Carol F. Goss, 1971
Associate Professor of Political Science

Cheryl C. Graesser, 1978
Lecturer in Psychology
B.A. 1972, Florida State University; Ph.D. 1977, University of California, San Diego.

J. Peter Graves, 1975
Assistant Professor of Administration
B.S. 1971, Ph.D. 1975, Brigham Young University.

Joseph W. Gray, 1969
Assistant Professor of Education

Chris C. Grenfell, 1975
Assistant Professor of Physical Education and Recreation
A.B. 1971, San Diego State University; M.S. 1973, University of California, Los Angeles.

Richard W. Griffiths, 1978
Associate Professor of Education

Dalton Harrington, 1969
Professor of Biology
B.A. 1961, University of Omaha; M.S. 1965, University of Missouri, Kansas City; Ph.D. 1969, University of Nebraska.

Arlo D. Harris, 1967
Associate Professor of Chemistry
B.S. 1961, University of Dayton; Ph.D. 1964, Tulane University.
John M. Hatton, 1967

Associate Professor of Psychology; Associate Dean, Counseling Services
B.A. 1961, University of Minnesota; Ph.D. 1965, Stanford University.

Melvin G. Hawkins, 1972

Associate Professor of Sociology
B.A. 1959, Morehouse College; M.S.W. 1963, Atlanta University; Ph.D. 1977, United States International University.

Walter Hawkins, 1974

Director of Educational Opportunity Program Supportive Services

John W. Heeren, 1971

Associate Professor of Sociology

Rebecca S. Heinz, 1978

Associate Professor of Education

David K. Hendricksen, 1975

Assistant Professor of Health Science
B.S. 1965, Buena Vista College; Ph.D. 1970, Kansas University; M.D. 1975, Kansas University Medical School.

Philip L. Herold, 1970

Associate Professor of Psychology

Charles D. Hoffman, 1974

Associate Professor of Psychology
B.S. 1967, Ph.D. 1972, Adelphi University.

H. Arthur Hoverland, 1972

Professor of Administration; Dean, School of Administration
B.S. 1951, Miami University; M.S. 1954, University of Illinois; Ph.D. 1963, University of Michigan.

Dennis L. Ikenberry, 1965

Professor of Physics

Dianne E. Irwin, 1974

Director, Learning Resource Center
B.A. 1972, California State College, San Bernardino; M.A. 1974, California State University, Fullerton; Ph.D. 1979, United States International University.

Harold A. Jambor, 1975

Lecturer in Sociology
B.A. 1935, Reed College; M.A. 1939, University of Chicago; D.S.W. 1965, University of Southern California.
Joseph T. Janczyk, 1976
Assistant Professor of Economics
B.A. 1970, State University of New York at Buffalo; Ph.D. 1976, University of California, Riverside.

Jorun B. Johns, 1965
Professor of German; Chair, Department of Foreign Languages and Literatures
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.

Nancy S. Johnson, 1978
Assistant Professor of Administration
B.S. 1964, M.S. 1967, Iowa State University; Ph.D. 1973, University of California, Riverside.

Paul J. Johnson, 1966
Professor of Philosophy; Chair, Department of Philosophy

Phyliss F. Jones, 1976
Assistant Professor of Nursing
B.S. 1973, M.S. 1975, Loma Linda University.

Donna Z. Junghardt, 1977
Assistant Professor of Nursing
B.S.N. 1959, P.H.N. 1960, Mount St. Mary's College; M.S. 1977, California State University, Los Angeles.

Lee H. Kalbus, 1965
Professor of Chemistry; Associate Dean of Academic Planning for Graduate Studies
B.S.Ed. 1950, Wisconsin State University; Ph.D. 1954, University of Wisconsin.

Sheldon Kamieniecki, 1978
Assistant Professor of Political Science

David A. Kantorowitz, 1975
Assistant Professor of Psychology

Julius David Kaplan, 1977
Associate Professor of Art; Chair, Department of Art
Jill H. Kasen, 1976

Assistant Professor of Sociology

Ray M. Kawaguchi

Lecturer in Sociology
B.A. 1963, University of California, Los Angeles; M.A. 1966, California State College, Los Angeles; M.A. 1975, University of California, Riverside.

Martha Kazlo, 1975

Counselor

Frederick W. Keene, 1976

Assistant Professor of Mathematics
S.B. 1967, Massachusetts Institute of Technology; M.A. 1972, Ph.D. 1974, University of California, Berkeley.

Charles F. Kellers, 1968

Professor of Physics; Chairman, Department of Physics
B.A. 1953, Swarthmore College; Ph.D. 1960; Duke University.

Rauf A. Khan, 1976

Associate Professor of Administration
B.S. 1958, Montana State University; M.B.A. 1967, University of Montana; D.B.A. 1973, University of Colorado.

Brij B. Khare, 1968

Professor of Political Science
B.S. 1953, Agra, India; M.S. 1959, University of Toronto; M.A. 1963, Ph.D. 1968, University of Missouri, Columbia.

Nikolai E. Khokhlov, 1968

Professor of Psychology

Adria F. Klein, 1976

Lecturer in Education

Helene W. Koon, 1970

Professor of English; Chair, Department of English
B.F.A. 1946, University of Iowa; M.A. 1948, Pasadena Playhouse; M.A. 1965, Immaculate Heart College; Ph.D. 1969, University of California, Los Angeles.

Larry L. Kramer, 1968

Professor of English

Nathan Kravetz, 1976

Professor of Education
Ellen L. Kronowitz, 1978
Assistant Professor of Education

Ted Krug, 1972
Director of Financial Aid

Jerome C. Langham, 1976
Lecturer in Administration

Robert A. Lee, 1968
Professor of English
B.A. 1961, University of California, Riverside; Ph.D. 1966, University of Oregon.

Margaret Lenz, 1970
Professor of Education
B.A. 1951, M.Ed. 1957, University of California, Los Angeles; Ph.D. 1972, Claremont Graduate School.

Peter L. Levin, 1977
Assistant Professor of Psychology

Peter M. Lichtenstein, 1979
Lecturer in Economics

Denis R. Lichtman, 1969
Associate Professor of Mathematics

Donald B. Lindsey, 1973
Associate Professor of Sociology

Roger P. Lintault, 1969
Professor of Art

Marsha B. Liss, 1976
Assistant Professor of Psychology
B.A. 1971, Barnard College; Ph.D. 1976, State University of New York at Stony Brook.

Fook Fah Liu, 1970
Professor of Physics
B.Sc. 1956, Presidency College, India; Ph.D. 1962, Purdue University.
Janice L. Loutzenhisser, 1976
Assistant Professor of Administration
B.A. 1970, University of Southern California; M.A. 1972, George Washington University; J.D. 1975, University of Virginia.

Loralee MacPike, 1978
Lecturer in 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

O. William McClung, 1978
Assistant Professor of Mathematics

John F. McDonnell, 1969
Associate 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
Assistant Professor of Nursing
B.S. 1971, M.S. 1976, Loma Linda University.

Patrick S. McInturff, Jr., 1978
Assistant Professor of Administration
B.S. 1972, M.A. 1974, University of California, Riverside; J.D. 1976, La Verne University.

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
Associate Professor of Chemistry; Chair, Department of Chemistry
A.B. 1962, Pomona College; Ph.D. 1967, Indiana University.

Terrell G. Manyak, 1978
Assistant 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
Assistant Professor of Physical Education and Recreation
B.S. 1968, Lincoln University; M.A. 1974, California State Polytechnic University, Pomona.

E. Clark Mayo, 1967
Associate Professor of English
Thomas M. Meisenhelder, 1975
Assistant Professor of Sociology

Gary W. Miller, 1978
Assistant Professor of Biology

Linda D. Miller, 1974
Assistant Librarian
B.A. 1971, University of Delaware; M.L.S. 1974, Rutgers University; M.A. 1978, University of California, Riverside.

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; Chair, Department 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.

Richard L. Moss, 1973
Associate Professor of Economics

Jan Mrozinski, 1976
Lecturer in Art
B.Ed. 1971, Toledo University; M.F.A. 1976, Pennsylvania State University.

Thomas P. Mullen, 1975
Assistant Professor of Education

James L. Murphy, 1970
Professor of Mathematics
Arthur Nelson, 1963  
*Director of Library*  
B.A. 1950, St. Thomas College; M.A. 1951, M.A.L.S. 1956, University of Minnesota.

Debra A. Nelson, 1978  
*Lecturer in Physical Education and Recreation*  
B.A. 1975, Gustavus Adolphus College; M.S. 1978, University of Arizona.

Frederick A. Newton, 1975  
*Assistant Professor of Psychology*  
B.S. 1967, St. Peter's College; M.S. 1970, Villanova University; Ph.D. 1975, University of Houston.

Gary V. Noreiko, 1977  
*Assistant Professor of Administration*  
B.A. 1966, California State University, Northridge; M.A. 1968, California State University, Los Angeles; Ph.D. 1972, University of Southern California.

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  
*Lecturer in Education*  
B.A. 1965, University of Nevada; M.Ed. 1975, University of Florida.

Robert M. O'Brien, 1974  
*Associate Professor of Sociology; Chair, Department of Sociology*  

Christopher O'Hare, 1975  
*Assistant Professor of Psychology*  

Enrique G. Ojembarrena, 1977  
*Lecturer in Spanish*  
Bachiller Superior 1962, Universidad de Valladolid; M. in Law 1967, Universidad de Bilbao; Ph.D. 1976, University of Colorado.

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  
*Placement Counselor*  
B.A. 1962, M.A. 1964, California State University, Fresno; Ph.D. 1967, University of Northern Colorado.

Mary G. Patterson, 1977  
*Professor of Nursing; Chair, Department of Nursing*  
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Pola N. Patterson, 1978

Associate Librarian

Clifford T. Paynton, 1968

Professor of Sociology

Dennis M. Pederson, 1970

Associate Professor of Chemistry
B.S. 1962, University of Puget Sound; Ph.D. 1968, Purdue University.

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.

Kathy Pezdek, 1975

Assistant Professor of Psychology
B.S. 1971, University of Virginia; M.S. 1972, Ph.D. 1975, University of Massachusetts.

John M. Pfau, 1962

Professor of History; President

Thomas J. Pierce, 1976

Assistant 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

Associate Professor of Anthropology

Robert E. Pratt, 1975

Assistant 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

Associate Professor of Physical Education and Recreation; Chair, Department of Physical Education and Recreation
B.S. 1964, MacMurray College; M.A. 1967, Ohio State University; Ed.D. 1973, Oklahoma State University.

Raymond A. Prier, Jr., 1978

Lecturer in English

H. Stephen Prouty, Jr., 1964

Associate Dean, Admissions and Records
B.S. 1957, M.S. 1960, Kansas State University, Manhattan.

Donald F. Putnam, 1976

Associate Professor of Administration

Johnnie Ann Ralph, 1971

Associate Librarian

Jerome B. Reed, 1976

Associate Professor of Administration

Tom M. Rivera, 1972

Associate Dean, Special Services

Robert R. Roberts, 1963

Professor of History

J. Cordell Robinson, 1971

Associate Professor of History

James G. Rogers, 1974

Professor of Administration

Michael Rose, 1972

Relations with Schools Officer
Richard H. Rowland, 1975
Assistant Professor 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.

Mireille C. Rydell, 1968
Professor of French
Licence 1950, University of Bordeaux; M.A. 1958, Ph.D. 1968, University of Minnesota.

Judith M. Rymer, 1970
Associate Professor of Education; Chair, Special Programs
B.S. in Ed. 1961, Miami University; M.A. 1966, University of Kansas; Ph.D. 1970, Ohio State University.

Richard S. Saylor, 1968
Professor of Music

Gerald M. Scherba, 1962
Professor of Biology; Vice President for Academic Affairs
B.S. 1950, M.S. 1952, Ph.D. 1953, 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

Jeanne A. Schuler, 1978
Lecturer in Philosophy

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
Associate Professor of Education; Director of Audiovisual Services
B.A. 1957, Ohio State University; M.Ed. 1966, Ph.D. 1970, Wayne State University.

Michael F. Sheehan, 1977
Lecturer in Economics
B.S. 1972, M.A. 1973, University of California, Riverside.

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.

Michael Simmons, 1971
Associate Professor of Anthropology

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.

Robert A. Smith, 1965
Professor of History; Coordinator of Interdisciplinary Programs
B.Ed. 1941, Southern Illinois University; M.A. 1946, Ph.D. 1950, University of Illinois.

Alexander Sokoloff, 1965
Professor of Biology
A.B. 1948, University of California, Los Angeles; Ph.D. 1954, University of Chicago.

Arlette S. Solomon, 1976
Lecturer in Art
B.A. 1946, Brooklyn College; M.A. 1973, University of California, Los Angeles.

Doyle J. Stansel, 1966
Associate Dean, Student Services

Gordon E. Stanton, 1968
Professor of Education; Chairman, Teacher Education

Helena V. Stanton, 1977
Lecturer in Education

Robert G. Stein, 1967
Associate Professor of Mathematics; Chair, Department of Mathematics
J. Keith Sutton, 1977
Lecturer in Administration

P. Richard Switzer, 1970
Professor of French
A.B. 1947, A.M. 1948, University of Chicago; Ph.D. 1955, University of California, Berkeley.

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.

Joseph K. Thomas, 1965
Professor of Education; Vice President for Administration
B.S. 1943, Washington State University; M.S. 1949, University of Southern California; Ed.D. 1957, University of Missouri, Columbia.

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
Associate Librarian
B.A. 1965, University of California, Santa Barbara; M.S. in L.S. 1966, University of Southern California.

Lee Rickles Tilman, 1976
Assistant Professor of Administration

Steven R. Wagner, 1974
Associate Professor of Education
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.

Jeffrey B. Walker, 1976
Lecturer in English

William Warehall, 1973
Associate 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.
George A. Weiny, 1967
Professor of Physical Education and Recreation
B.A. 1957, Iowa Wesleyan College; M.A. 1962, State University of Iowa.

Robert L. West, 1966
Professor of Education

Edward M. White, 1965
Professor of English

Alice K. Wilson, 1969
Senior Assistant Librarian
A.B. 1937, University of Dubuque; M.L.S. 1968, University of California, Los Angeles.

Ruth C. Wilson, 1971
Associate Professor of Biology; Chair, Department of Biology

Alvin Wolf, 1975
Assistant 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.

Evelyn J. Wright, 1978
Associate Professor of Nursing
B.S. 1959, San Diego College for Women; M.S. 1961, University of California, San Francisco.

Joseph K. Yabu, 1975
Assistant Professor of Education

The above listing represents full-time faculty as of January, 1979, plus new appointments made before the Bulletin was printed.
EMERITUS FACULTY

Rene F. Denneweyr, Professor of Mathematics, Emeritus, 1979
Robert G. Fisk, Professor of Education, Emeritus, 1973
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
C. Michael O’Gara, Professor of Physical Education, Emeritus, 1977
Bernhardt L. Mortensen, Associate Professor of Sociology, Emeritus, 1978

SPECIAL APPOINTMENTS

Bruce F. Anderson, 1972
  *Studio Music Instructor*

John R. Barrett, 1970
  *Studio Music Instructor*

Edward P. Casem, 1967
  *Studio Music Instructor*

Karlin Eby, 1976
  *Studio Music Instructor*
  B.A. 1957, University of Washington; M.M. 1963, University of Oregon.

Clabe Hangan, 1975
  *Studio Music Instructor*
  B.A. 1960, University of Redlands.

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.
Paul Oxley, 1975

*Studio Music Instructor*


Merriam Paul, 1977

*Studio Music Instructor*

B.M.E. 1957, North Texas State University; M.S. 1960, Baylor University.

Victoria Shapiro, 1967

*Studio Music Instructor*

Diploma 1947, B.S. in Viola 1949, Juilliard School of Music.
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; and the review standards employed to make awards for student financial assistance; and
4. The rights and responsibilities of students receiving 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. Tuition fees;
2. Estimated costs of books and supplies;
3. Estimates of typical student room and board costs or typical community 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 111, 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; and
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.
Determination of Residence

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

The following statement of the rules regarding residency determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The laws governing residence determination for tuition purposes by The California State University and Colleges are found in Education Code Sections 68000-68090, 90403, 89705-89707.5, 68122, 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 evidence the intent to make California the permanent home with concurrent relinquishment of the prior legal residence. Some of the relevant indicia of an intention to establish and maintain California residence are registering to vote and voting in elections in California; satisfying resident California state income tax obligations on total income; ownership of residential property or continuous occupancy or letting of an apartment on a lease basis where one's permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator's license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service.

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.

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 1979-80 academic year are:

<table>
<thead>
<tr>
<th>Quarter term campuses</th>
<th>Semester term campuses</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Fall</td>
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<tr>
<td>September 20</td>
<td>September 20</td>
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<tr>
<td>Winter</td>
<td>Winter*</td>
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<td>January 5</td>
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<td>Spring</td>
<td>Spring</td>
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<tr>
<td>April 1</td>
<td>January 25</td>
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<tr>
<td>Summer</td>
<td></td>
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<tr>
<td>July 1</td>
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</tbody>
</table>

* Applies only to winter term in Stanislaus experimental calendar.

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 persons directly to a post outside the 50 states and District of Columbia.

5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.

6. A student who is an adult alien is entitled to residence classification if he 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 he 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.


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

9. 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. Certain exchange students.

11. 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.

12. 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 and Colleges, 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 reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Administrative Code. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying 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.
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 GPA 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>
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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.
Student Conduct Code

Expulsion, Suspension and Probation of Students

Violation of Sections 41301 and 41302 in Article 1, Subchapter 3, Chapter 5, Title 5 of the California Administrative Code can result in disciplinary action on campus.

41301. Expulsion, Suspension and Probation of Students. Following procedures consonant with due process established for the campus of which he is a student, any student of a campus may be expelled, placed on probation or given a lesser sanction for one or more of the following causes which must be campus related:

(a) Cheating or plagiarism in connection with an academic program at a campus.

(b) Forgery, alteration or misuse of campus documents, records, or identification or knowingly furnishing false information to a campus.

(c) Misrepresentation of oneself or of an organization to be an agent of a campus.

(d) Obstruction or disruption, on or off campus property, of the campus educational process, administrative process, or other campus function.

(e) Physical abuse on or off campus property of the person or property of any member of the campus community or of members of his family or the threat of such physical abuse.

(f) Theft of, or non-accidental damage to, campus property, or property in the possession of, or owned by, a member of the campus community.

(g) Unauthorized entry into, unauthorized use of, or misuse of campus property.

(h) On campus property, the sale or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics as those terms are used in California statutes, except when lawfully prescribed pursuant to medical or dental care, or when lawfully permitted for the purpose of research, instruction or analysis.

(i) Knowing possession or use of explosives, dangerous chemicals or deadly weapons on campus property or at a college campus function without prior authorization of the campus president.

(j) Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.

(k) Abusive behavior directed toward, or hazing of, a member of the campus community.

(l) Violation of any order of a campus president, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any of the other provisions of this Section.

(m) Soliciting or assisting another to do any act which would subject a student to expulsion, suspension or probation pursuant to this Section.

(n) For purposes of this Article, the following terms are defined:

(1) The term "member of the campus community" is defined as meaning California State University and Colleges Trustees, academic, non-academic and administrative personnel, students, and other persons while such other persons are on campus property or at a campus function.

(2) The term "campus property" includes:

(A) real or personal property in the possession of, or under the control of, the Board of Trustees of the California State University and Colleges, and

(B) all campus feeding, retail, or residence facilities whether operated by a campus or by a campus auxiliary organization.
(3) The term "deadly weapons" includes any instrument or weapon of the kind commonly known as a blackjack, sling shot, billy, sandclub, sandbag, metal knuckles, any dirk, dagger, switchblade knife, pistol, revolver, or any other firearm, any knife having a blade longer than five inches, any razor with an unguarded blade, and any metal pipe or bar used or intended to be used as a club.

(4) The term "behavior" includes conduct and expression.

(5) The term "hazing" means any method of initiation into a student organization or any pastime or amusement engaged in with regard to such an organization which causes, or is likely to cause, bodily danger or physical or emotional harm to any member of the campus community; but the term "hazing" does not include customary athletic events or other similar contests or competitions.

(o) This Section is not adopted pursuant to Education Code Section 89031.

(p) Notwithstanding any amendment or repeal pursuant to the resolution by which any provision of this article is amended, all acts and omissions occurring prior to that effective date shall be subject to the provisions of this Article as in effect immediately prior to such effective date.

41302. Expulsion, Suspension or 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. 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.

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

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.
Average Annual Costs and Sources of Funds

The 19 campuses and the Chancellor's Office of The California State University and Colleges are financed primarily through funding provided by the taxpayers of California. Including capital outlay, the CSUC 1978-79 budget totals $840 million. Approximately $815 million of the $840 million total has been budgeted to provide support for a projected 237,080 full-time equivalent (FTE*) students. Excluding capital outlay, the average cost per FTE student is $3,441 per year. Of this amount, the average student pays $312. Included in this average student payment calculation is the amount paid by nonresident students. The remaining $3,129 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:

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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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</thead>
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<tr>
<td>State approp. (support)</td>
<td>$695,340,533*</td>
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<td>73,970,331</td>
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<td>Federal (financial aids)</td>
<td>46,458,850</td>
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<tr>
<td>State funding (capital outlay)</td>
<td>23,873,000</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>Total</td>
<td>$839,642,714</td>
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<td>100.0%</td>
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* This amount will be reduced by the CSUC share of the statewide budget reductions required by Budget Act Section 27.1 (a statewide reduction of $42,400,000 in operating expense and equipment) and Section 27.2 (a statewide reduction of $54,000,000 in personal services pursuant to the hiring freeze).
* For budgetary purposes, full-time equivalent (FTE) translates total head count into total academic student load. The term assumes that a full-time student in The California State University and Colleges is enrolled for 15 units of academic credit. Some students enroll for more than 15 units; some students enroll for fewer than 15 units.
** The 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 $312 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 $2.6 billion, excluding the cost of land.
The Student Services Fee

A student services fee was established by the Board of Trustees of the California State University and Colleges in January 1975. Previously, this fee was known as the materials and service 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.

Procedure for Establishment of Student Body Fee

The law governing The California State University and Colleges provides that a student body fee, not to exceed $20 per academic year, 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 20% 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 is: 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 Health, Education and Welfare, 330 Independence Avenue, SW, Washington, D.C. 20201.

The campus is authorized under the act to release public directory information concerning students. Directory information includes the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student and any other information authorized in writing 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 and Colleges, by the chancellor or designee of The California State University and Colleges, 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 and Colleges. 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 and Colleges, the chancellor of The California State University and Colleges 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 between the student and the institution or The California State University and Colleges. 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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