california state college, san bernardino

bulletin 1972-1973

The California State University and Colleges
DIRECTORY FOR CORRESPONDENCE

Inquiries by students seeking admission to the College should be addressed to:

Associate Dean of Admissions
California State College, San Bernardino
5500 State College Parkway
San Bernardino, California 92407
Telephone (714) 887-6311

Other inquiries should be addressed to the following offices:

- General information: Office of Academic Planning
- Extension: Office of Continuing Education
- Financial aid: Office of the Dean of Students
- Housing: Office of the Housing Coordinator
- Master’s Degree in Education: Department of Education
- Placement: Office of the Dean of Students
- Student bills and fees: Office of the Bursar
- Summer Sessions: Office of Continuing Education
- Transcripts of records: Office of the Registrar
- Veterans: Office of the Registrar

Complimentary Copy
CONTENTS

Academic Calendar / 4–5
The College / 9
Admission / 13
Fees / 25
Registration / 29
Requirements for Degrees / 41
Student Life / 47
Continuing Education / 55
The Academic Program / 59
Administration and Faculty / 141
Index / 157
COLLEGE CALENDAR 1972–73

FALL TERM

Sept. 4  Labor Day, administrative holiday
Sept. 18  Beginning of the academic year
Sept. 19–21 Orientation and testing of new students
Sept. 21  Advising for juniors, seniors and graduate students
Sept. 22  Advising for freshmen and sophomores
Sept. 25–26 Registration
Sept. 28  Classes begin
          Late registration
Oct.  4  Last day to add classes
Oct. 18  Last day to drop classes without penalty for unsatisfactory work
Oct. 19  Last day to file graduation requirement check for March graduation
Oct. 23  Veterans Day, academic and administrative holiday
Nov. 16  Last day to withdraw from classes
Nov. 23–24 Thanksgiving, academic and administrative holiday
Dec.  4–8  Advising
Dec. 11  Last day of classes
Dec. 13–15 Final examinations
Dec. 15  End of term

WINTER TERM

Dec. 25  Christmas, administrative holiday
Jan.  1  New Year’s Day, administrative holiday
Jan.  2–3  Registration
Jan.  5  Classes begin
          Late registration
Jan. 11  Last day to add classes
Jan. 25  Last day to drop classes without penalty for unsatisfactory work
Jan. 26  Last day to file graduation check for June, July and August graduation
Feb. 19  Washington’s Birthday, academic and administrative holiday
Feb. 23  Last day to withdraw from classes

1972

September

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

October

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

November

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

December

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1973

January

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

February

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
</tbody>
</table>
1973 COLLEGE CALENDAR 1972–73

March
S M T W T F S
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32

March 9, 12–15 Advising
March 16 Last day of classes
March 19–21 Final examinations
March 21 End of term

SPRING TERM

April
S M T W T F S
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24
25 26 27 28 29 30

April 1 Spring Term
April 2 Classes begin
April 5 Last day to add classes
April 20 Last day to withdraw from classes
without penalty for unsatisfactory work
April 23 Last day to file graduation requirement check for December graduation
May 18 Last day to withdraw from classes
May 28 Memorial Day, academic and administrative holiday
June 11 Last day of classes
June 13–15 Final examinations
June 15 End of term
June 16 Commencement
June 30 Last day of academic year

SUMMER SESSION

June
S M T W T F S
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24
25 26 27 28 29 30

June 22 Registration
June 25 Classes begin
June 27 Late registration
June 27 Last day to add classes
July 4 Independence Day, academic and administrative holiday
July 5 Last day to withdraw from classes
without penalty for unsatisfactory work
July 19 Last day to withdraw from classes
August 2 Last day of classes
August 3 Final examinations
August 6 Registration for post-session
August 24 Final examinations

August
S M T W T F S
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32
On November 29, 1971, the Governor signed into law Assembly Bill 123 which created The California State University and Colleges, thereby redesignating the system previously known as the California State Colleges. This legislation provided legal recognition that the California State Colleges have achieved the status of universities in their first decade as a unified system of higher education.

First brought together as a system under an independent Board of Trustees by the Donahoe Higher Education Act in the early 1960's, the California State University and Colleges now consists of 19 campuses, covering the state from Humboldt in the north to San Diego in the south. Current enrollment exceeds 263,000 full and part-time students, with a faculty of approximately 14,500.

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.

Each campus in the system has its own unique geographic and curricular character, but all emphasize the liberal arts and sciences. Programs leading to the bachelor's and master's degrees are master-planned to anticipate and accommodate student interest and the educational and professional needs of the State of California. A limited number of joint doctoral programs are also offered. Although there is increasing recognition of the importance of research to the maintenance of quality teaching, the primary responsibility of the faculty continues to be the instructional process.

While San Jose State College, the oldest, was founded over a century ago, prior to World War II only seven State Colleges were in existence, with a total enrollment of 13,000. Since 1947, 12 new campuses have been established, and sites have been selected for additional ones in Ventura, San Mateo and Contra Costa counties. California State College, Bakersfield, the newest, was opened to students in 1970. Enrollment in the system is expected to pass 300,000 by 1980.
THE CALIFORNIA STATE UNIVERSITY AND COLLEGES

California State College, Bakersfield
9001 Stockdale Highway
Bakersfield, California 93309
Paul F. Romberg, President
805 833-2011

California State College, Dominguez Hills
1000 East Victoria Street
Dominguez Hills, California 90247
Leo F. Cain, President
213 332-4300

California State College, Fullerton
800 North State College Boulevard
Fullerton, California 92631
L. Donald Shields, President
714 870-2011

California State College, Hayward
25800 Hillary Street
Hayward, California 94542
Ellis E. McCune, President
415 884-3724

California State College, Long Beach
6101 East Seventh Street
Long Beach, California 90804
Stephen Horn, President
213 498-4111

California State College, Los Angeles
5151 State College Drive
Los Angeles, California 90032
John A. Greenlee, President
213 224-0111

California State College, San Bernardino
5300 State College Parkway
San Bernardino, California 92407
John M. Pfau, President
714 887-6311

California State Polytechnic College
Kellogg-Voorhis
3801 West Temple Avenue
Pomona, California 91768
Robert C. Kramer, President
714 595-1241

California State Polytechnic College, San Luis Obispo
San Luis Obispo, California 93401
Robert E. Kennedy, President
805 546-0111

Chico State College
Chico, California 95926
Stanford Cazier, President
916 345-5011

Fresno State College
Shaw and Cedar Avenues
Fresno, California 93710
Norman A. Baxter, President
209 487-9011

Humboldt State College
Arcata, California 95521
Cornelius H. Siemens, President
707 826-3011

Sacramento State College
6000 J Street
Sacramento, California 95819
Bernard L. Hyink, President
916 454-6011

San Diego State College
5402 College Avenue
San Diego, California 92115
Donald E. Walker, Acting President
714 286-5000

San Fernando Valley State College
18111 Nordhoff Street
Northridge, California 91324
James W. Cleary, President
213 885-1200

San Francisco State College
1600 Holloway Avenue
San Francisco, California 94132
S. I. Hayakawa, President
415 469-9123

San Jose State College
125 South Seventh Street
San Jose, California 95114
John H. Bunzel, President
408 294-6414

Sonoma State College
1801 East Cotati Avenue
Rohnert Park, California 94928
Thomas H. McGrath, President
707 795-2011

Stanislaus State College
800 Monte Vista Avenue
Turlock, California 95380
Carl Gatlin, President
209 634-9101
THE COLLEGE AND ITS ACADEMIC PROGRAM

The California State College, San Bernardino opened in the fall of 1965 with limited degree programs in a small number of disciplines. The College now offers undergraduate programs leading toward a baccalaureate degree in 21 major areas. Plans have been made to begin graduate programs in certain areas such as elementary education in 1972-73.

The uniqueness of the College lies in the emphasis on General Studies in the student's program; in highlighting the liberal arts aspects of the College curriculum; in the importance placed on excellence in teaching involving a preponderance of small classes; and, in an emphasis on independent study in all areas of the College programs.

The College has adopted a three-course, three-term academic program. Under such a program, the academic year extends from September to June and is divided into three terms of about eleven weeks each. The plan differs from the conventional quarter system by limiting to three the number of academic courses taken by any full-time student. In each academic year a student takes a total of nine full-term courses. Thirty-six full-term courses plus three physical education courses are required for graduation. Each full-term course is the equivalent of a conventional five quarter-hour or three and one-third semester-hour course.

Under the three/three plan, each full-term course normally meets four times a week (laboratory and studio courses are exceptions). The student is thus in class twelve hours per week or the equivalent, instead of the traditional fifteen. 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.

The academic program in the classroom is complemented by a growing co-curricular program of cultural, social and recreational activities.

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 approved by the American Chemical Society.
The College Library

The Library of the College consists of a general undergraduate collection of 160,000 books and bound periodicals. The Library subscribes to 1,500 periodicals and newspapers in addition to other serial publications. Recordings, musical scores, maps, microform and curriculum materials supplement the book collection. The Library serves as a depository for the publications of the State of California.

The Library occupies substantial portions of the new Library-Classroom building. It provides individual study cubicles, music listening facilities, microform readers, and photo-duplicating services, as well as seating for about 700 patrons.

Baccalaureate Degree Programs

In the 1972-73 academic year, the College will offer Bachelor of Arts degree programs in the following fields:

Division of Humanities
  Art
  Drama
  English
  French
  Humanities
  Music
  Philosophy
  Spanish

Division of Natural Sciences
  Biology
  Chemistry
  Mathematics
  Physics

Division of Social Sciences
  Anthropology
  Business Administration
  Economics
  Geography
  History
  Political Science
  Psychology
  Social Sciences
  Sociology

Future Development of the College

Over the next few years, the College anticipates the development of additional baccalaureate degree programs as well as graduate degrees and credentials.

Additional buildings and other campus facilities are currently being planned to accommodate increases in enrollment and variety of degree programs.
College Foundation

The Foundation of the California State College, San Bernardino, a California non-profit 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 Cafeteria and Bookstore.
Requirements for admission to the California State College, San Bernardino are in accordance with Title 5, Chapter 5, Subchapter 2 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 community college counselor or the Office of Admissions at the California State College, San Bernardino.

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.

**Application Procedure for 1973–74**

All prospective students must file a completed application for admission within the appropriate filing period. A completed undergraduate application includes Part A, the application form; Part B, the data form; and the non-refundable application fee of $20. A graduate application includes Part A; Part B; Part C, the supplemental graduate admission application; and the non-refundable application fee of $20. Graduate applicants who were enrolled as undergraduate students at the College in the term immediately preceding the term for which they now wish to apply must also complete all the required forms and submit the $20 application fee.

Each applicant may file only one application for any one term within the California State University and Colleges system. The application should be filed with the college of first choice. Alternate choice campuses may be listed on the application.

**Application Filing Periods for 1973–74**

<table>
<thead>
<tr>
<th>Term</th>
<th>Initial filing period</th>
<th>Extended filing period begins (continues until quotas are reached)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Quarter, 1973</td>
<td>November 1–30, 1972</td>
<td>December 1, 1972</td>
</tr>
<tr>
<td>Fall Semester, 1973</td>
<td>November 1–30, 1972</td>
<td>December 1, 1972</td>
</tr>
<tr>
<td>Winter Quarter, 1974</td>
<td>June 1–30, 1973</td>
<td>July 1, 1973</td>
</tr>
<tr>
<td>Spring Semester, 1974</td>
<td>August 1–31, 1973</td>
<td>September 1, 1973</td>
</tr>
<tr>
<td>Spring Quarter, 1974</td>
<td>August 1–31, 1973</td>
<td>September 1, 1973</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Term State Colleges</th>
<th>Quarter Term State Colleges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chico</td>
<td>Bakersfield</td>
</tr>
<tr>
<td>Fresno</td>
<td>Cal Poly, Humboldt</td>
</tr>
<tr>
<td>Fullerton</td>
<td>Kellogg-Voorhis</td>
</tr>
<tr>
<td>Long Beach</td>
<td>Cal Poly, Los Angeles</td>
</tr>
<tr>
<td>Sacramento</td>
<td>Luis Obispo, San Bernardino</td>
</tr>
<tr>
<td></td>
<td>Dominguez Hills</td>
</tr>
<tr>
<td></td>
<td>Hayward</td>
</tr>
<tr>
<td></td>
<td>Humboldt</td>
</tr>
<tr>
<td></td>
<td>Stanislaus</td>
</tr>
</tbody>
</table>
Initial Filing Period

All applications received during the initial filing period will receive equal consideration within the colleges' established enrollment categories and quotas, irrespective of the time and date they are received. Applicants who can be accommodated within enrollment quotas will receive confirmation of space reservation. Although the space reservation is not a statement of admission, it is a commitment on the part of the college to admit a student once eligibility has been determined. When the student receives notice of the space reservation, he should initiate action to have transcripts of any college and high school work sent to the state college where space has been reserved. The college will inform him of the number of copies of transcripts required, dates for submittal, and where they should be sent. THE STUDENT SHOULD NOT REQUEST THAT TRANSCRIPTS BE SENT UNTIL REQUESTED TO DO SO BY THE COLLEGE WHERE SPACE HAS BEEN RESERVED.

Redirection

Applications of students who cannot be accommodated at their first choice college will automatically be forwarded to their second choice, and, if they cannot be accommodated there, to their third choice or fourth choice.

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.

Extended Filing Period

Colleges not filling category quotas during the initial filing period will continue to accept applications during the extended filing period until quotas are filled. Application priority within the extended period will be granted in chronological order of application receipt by the colleges.

Advanced Placement for Entering Students

The College grants advanced credit to students who have obtained a score of 3, 4, or 5 on the Advanced Placement Tests given by the College Entrance Examination Board. For information on taking advanced placement examinations, students should consult their high school counselors.

College credit is also awarded to students who present appropriate scores on the College Level Examination Program subject examinations. A list of the examinations for which credit can be awarded is available in the Office of Admissions. Up to 45 quarter hours may be awarded to entering students under this program.

For further information regarding advanced placement in foreign languages, see Credit by Examination section (page 34).
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 of concentration.

In addition to such academic counseling, specialized counseling in vocational and personal matters is available in the Office of the Dean of Students.

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:

1. College preparatory English.
2. Foreign language.
3. College preparatory mathematics.
4. College preparatory laboratory science.
5. College preparatory history and/or social science.
6. Study in speech, music, art, and other subjects contributing to a strong academic background.

Admission as First-Time Freshmen

Applicants who have completed no college work after high school graduation will be considered for admission as first-time freshmen under one of the following provisions. Results of either the CEEB Scholastic Aptitude Test (SAT) or the American College Testing program examination (ACT) are acceptable in establishing eligibility.

Exceptions: College credit earned concurrent with high school enrollment; college credit earned in summer session after high school and prior to regular matriculation in college; college credit granted for the CLEP or advanced placement programs, or military or USAFI courses; or college credit granted for some non-traditional learning experience, will not affect the applicant's status as a first-time freshman for application quota purposes as well as admission. Further, the accelerated student who completes his high school program mid-year and has applied to the California State University and Colleges for the following fall term, but chooses to attend a local community college in the spring term will be considered a first-time freshman for application quota purposes as well as admission. All such college or advanced standing credit, if fully acceptable as transfer credit, will be granted the student after admission.

1. California High School Graduates and Residents

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

<table>
<thead>
<tr>
<th>Grade-Point Average</th>
<th>ACT Score Needed</th>
<th>SAT Score Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.21 and above</td>
<td>Eligible with any score</td>
<td>Eligible with any score</td>
</tr>
<tr>
<td>2.80</td>
<td>19</td>
<td>832</td>
</tr>
<tr>
<td>2.40</td>
<td>27</td>
<td>1152</td>
</tr>
<tr>
<td>2.00</td>
<td>35</td>
<td>1472</td>
</tr>
<tr>
<td>1.99 and below</td>
<td>Not eligible</td>
<td>Not eligible</td>
</tr>
</tbody>
</table>

The minimum eligibility index is: SAT, 3072 and ACT, 741. 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.

Registration forms for either test may be obtained from high school and community college counselors, State College testing offices or directly from the testing service at the address below:

**SAT**
CEEBS Box 1025
Berkeley, CA 94770

**ACT**
Registration Unit
P.O. Box 168
Iowa City, Iowa 52240

2. **Non-Residents Graduating from High Schools in Other States or Possessions**

An applicant who is a non-resident for tuition purposes and who is a graduate of a high school in another state or a U.S. possession must have an eligibility index which would place him among the upper one-sixth of California high school graduates for 1971-72. The eligibility index is based on the grade-point average and the entrance examination score. It is calculated by the College.

3. **Graduates of High Schools in a Foreign Country**

An applicant who is a graduate of a foreign high school must have preparation equivalent to that required of eligible California high school graduates. The College will carefully review the previous record of all such applicants, and those with promise of academic success equivalent to that of eligible California high school graduates will be admitted. Such applicants are not required to take the ACT or SAT except when specifically requested to do so. Foreign students should read paragraph pertaining to admission of foreign students on page 20.

4. **Non-High School Graduates**

An applicant who is over 18 years of age but who has not graduated from high school will be considered for admission only when his preparation in all other ways is such that the College believes his prom-
ise of academic success is equivalent to that of eligible California high school graduates.

5. High School Students

High school seniors with a B+ average are encouraged to enroll in regularly scheduled courses at the College. The student must be recommended by his principal and must have taken the prerequisite courses, if any. Courses appropriate for high school seniors are scheduled at hours which will facilitate their attendance. A brochure describing the program is available from the Office of Admissions and Records.

Admission as Undergraduate Transfers

Applicants for admission to the State Colleges as undergraduate transfers will be considered for admission under one of the following provisions:

1. Applicants who have successfully completed 60 or more semester units (90 quarter units), or the equivalent, are eligible for admission if they have achieved a grade-point average of 2.0 (C) and were in good standing at the last college attended. Non-resident applicants must have earned a grade-point average of at least 2.4 (C+).

2. Applicants who have successfully completed fewer than 60 semester units (90 quarter units), or the equivalent, are eligible for admission if they meet the above requirements and the current first-time freshman requirements. Applicants for admission as transfer students who have been continuously enrolled at a college since graduation from high school are eligible if they meet the first-time freshman requirements in effect at the time of their high school graduation. Other SAT or ACT test results are required of transfer applicants with fewer than 60 semester units (90 quarter units).

An applicant must report all college work attempted (including extension and correspondence courses), no portion of which may be disregarded in transferring. An applicant disregarding this regulation will be subject to dismissal from the College.

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 of work taken at a community college can be applied toward the requirements for a degree from the College. No upper-division credit may be allowed for courses taken in a community college. No credit may be allowed for professional courses in education taken at a community college, other than an introduction to education course.
The Office of Admissions and Records will evaluate previous college work to determine its applicability to the requirements of the College. All degree and credential 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.

**Credit for Extension and Correspondence Courses**

Up to 36 quarter units (24 semester units) of extension credit may be applied toward a degree. No credit so earned may be used to satisfy the College residence requirement. No more than 18 quarter units of the 36 extension units allowed may be transferred from another college or university.

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

**Admission of Unclassified Graduate Students**

*General Qualifications*

Applicants may be considered for admission to unclassified graduate standing at the College if they (1) possess a baccalaureate degree or its equivalent from a college or university of recognized accreditation, (2) are in good standing in the last college or university attended, (3) have maintained a minimum “C” average in all postgraduate work taken, and (4) satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as the appropriate college authorities may prescribe. Graduating seniors at the College must apply for unclassified graduate status before enrollment as a graduate student.

*Unclassified Graduate Status*

After admission to the College, up to four courses taken in unclassified graduate standing will be accepted in partial fulfillment of requirements for a graduate degree (when offered at the College) or a teaching credential. Such units will be accepted only upon approval of a graduate advisor. There are two types of unclassified graduate status:

1. **Course Objective Only.** Students who wish to undertake courses (course objective only) at the College, but not with an objective of a graduate degree (when offered at the College) or a teaching credential,
may be considered for admission with graduate standing when they meet the requirements specified in the general qualifications, above.

2. Teaching Credential Objective. A student interested in working toward a teaching credential at the College must meet the general qualifications, above. In addition, he must submit all required college transcripts to the Office of Admissions to initiate consideration for acceptance into the appropriate credential program. The Office of Admissions will determine if the student is admissible to the College. The student will be required, after admission to the College, to meet the particular requirements for participation and formal acceptance in the credential program as specified by the appropriate instructional area. All credential candidates must have maintained a minimum 2.5 grade-point average in undergraduate course work in their major field.

Admissions Procedures

Each applicant must:

1. Submit an application for admission; statement of residence form, and $20 application fee. Currently enrolled students applying for admission to the credential program for the fall quarter of 1972 are exempt from the $20 fee.

2. All unclassified graduate students working for teaching credentials must file two complete official sets of all college transcripts. Composite transcripts cannot be accepted. Unclassified (course objective only) students must file an official transcript indicating evidence of an earned baccalaureate or higher degree from an accredited college or university and transcripts of all post-graduate work. All graduate students are urged to have a personal set of transcripts which they can take to their advising sessions.

Admission as a Classified Graduate Student

A student who has been admitted to the College under the Unclassified Graduate requirement above may, upon application, be admitted to an authorized graduate degree curriculum if he satisfactorily meets the professional, personal, scholastic, and other standards for admission to the graduate degree curriculum, including qualifying examination, as the appropriate college authorities may prescribe.

Information on requirements for admission as a classified graduate student is available from the Office of the Dean of Academic Planning.

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 Department of Education of the College.
Admission of Foreign Students
At the present time, the College usually does not accept foreign student applicants directly from foreign countries where English is not the native language. Foreign students who normally will be accepted must have successfully completed a minimum of two years of work at any accredited collegiate institution in the United States.

Admission of Former Students
Students in good standing may be readmitted to the College after an absence of more than two terms by filing a new Application for Admission. Students who have attended another institution since their last attendance at California State College, San Bernardino must have a transcript of record from that institution sent directly to the Office of Admissions and Records. Students who have been absent three quarters or more (excluding summer session) or who have attended another college or university must pay the application fee when reapplying.

Admission as an Auditor
Applicants who wish to audit courses must meet all admission requirements and must obtain a permit to register by presenting to the Office of Admissions and Records written authorization from the instructors of the courses to be audited. Auditors are required to pay the usual fees.
Individuals admitted as auditors may not apply for credit in such courses after the last day to add courses, and students enrolled in classes for credit may not become auditors in such classes after the last day to drop classes.

Admission to Summer Session
Students interested in attending summer session do not need to file an application to enroll in summer classes. However, those students planning to pursue their studies at the College in the fall who have not already applied to the College or who have been absent from the College for three quarters or more must file an application for admission to the fall quarter.

Readmission of Previously Disqualified Students
A student may petition the Admissions and Academic Standards Committee for readmission to the College on probation upon receipt of notice of disqualification. All petitions for readmission must be submitted to the Office of Admissions and Records 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 33. A student admitted on probationary status may be restricted by his advisor to a limited program.

**Determination of Residence**

The determination of whether a student qualifies as a “resident” for admission and tuition purposes is made by the College after review of a residence questionnaire, designed to provide necessary information including the applicability of any exceptions. The following statement is a summary of the principal rules regarding residency determination and their exceptions. The applicable statutes are found in Education Code Sections 23753.2–23762, Government Code Sections 243–244, and Civil Code Section 25.

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 admission and tuition purposes. A residence determination date is set for each academic term.

Determination of California residency usually depends on whether the student has attained majority: that is, has become an adult. Majority is attained at 18 years of age. If the student is a minor, residence is derived from (and therefore is the same as) that of the father. If the father is deceased, the student's residence is that of the mother while she remains unmarried. A minor cannot change his residence by either his own act or that of his guardian.

Upon attaining majority, the student may acquire a residence apart from his parents. The acquisition of California residence by an adult requires both physical presence in the state and, at the same time, an intent to remain in California indefinitely (that is, an intent to regard California as one's permanent home). Although physical presence is easily proved, subjective intent is more difficult, requiring the student to present evidence of various objective manifestations of such intent.

The foregoing rules will have special application during the 1972-73 academic year for persons who attain their majority as a result of the Legislative change reducing the age of majority from 21 to 18.

The residence of a married woman is that of her husband, unless she is separated, in which case she can establish her own residence.

An alien is not eligible to acquire residence until admitted into the United States for permanent residence under an immigrant visa.

Since the general rules work hardships in some cases, the Legislature has provided a number of exceptions which waive non-resident tuition. These rules are limited in scope and are quite detailed. If any appear
applicable, the student may discuss the matter with the residence clerk in the Office of Admissions and Records. Exceptions are provided for:

1. Minors living under the direct care and control of a California resident for periods of time specified by law.

2. Minors whose parents were California residents but have left the state. (Depending upon the parents' length of residence in California, the minor is given a grace period during which he is considered a California resident even though his parents have become residents of another state.)

3. Minors who have a parent in active military service and stationed in California on the residence determination date; California resident minors who have a parent in active military service but stationed outside the United States on the residence determination date, and California resident spouses of such servicemen.

4. Persons who have attained their majority by the residence determination date and who were entirely self-supporting and present in California for the entire preceding year.

5. Women who are California residents and who marry nonresidents, provided residence is not established in any other state.

6. 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.

7. Full-time State College employees and their children and spouses.

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


This summation of residency rules is by no means complete. Changes also may be made by the Legislature between the time the catalog is published and the relevant residence determination date.
SCHEDULE OF FEES

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 non-refundable: application and facilities fees.

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

**All students**
- **Application fee** (non-refundable, payable by check or money order at time of applying) $20.00
- **Materials and service fee**:
  - 1-3.9 units $26.50
  - 4-7.9 units $30.00
  - 8-11.9 units $33.00
  - 12 or more units $39.00
- **Facilities fee** $2.00
- **Associated Students fee**: one full-term course or less $3.00
  - more than one full-term course $6.50
- **Student identification card fee** $1.00
- **Student Union fee** $5.00

**Non-residents (foreign and domestic)**
- **Tuition**: less than 15 units, per unit or fraction $25.00
  - 15 or more units, maximum $370.00
(Nota: Tuition is in addition to other fees required of all students)

**Residence halls**
- Room and board (14 meals per week), double room $1150.00
- Room and board (14 meals per week), single room $1250.00
(Subject to change prior to opening of 1972-73 academic year)

**Summer session fee**
- Per quarter unit of credit $16.00

**Special fees**
- **Credential fee** $20.00
- **Late registration** $5.00
- **Failure to meet required appointment or time limit** $2.00
- **Late filing of student program or application for degree or credential** $2.00
- **Graduation requirement check fee** $6.00
- **Parking fees (per quarter)**
  - First vehicle $9.00
  - Two-wheeled vehicle $2.25
  - Each alternate in addition to first vehicle $1.00
  - **Summer session** $5.00
- **Check returned for any cause** $2.00
- **Transcript of academic record** $1.00

**Note**: Fees subject to change without advance notice.

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

Students registered for credit or audit who change their program to a lesser number of units may not receive a refund of material and service fee.

However, upon a student's withdrawal from all classes, the material and service fee may be refunded if written application for refund, on forms provided by the Registrar, is submitted to the Bursar not later than 14 days following the day that instruction begins. However, $10 shall be retained to cover the cost of registration.

Non-resident tuition is refunded on a prorated basis during the first four weeks of instruction according to the following schedule:

- 100% refunded before or during the first week of instruction
- 75% refunded during the second week
- 50% refunded during the third week
- 25% refunded during the fourth week

Student Union fees are fully refundable during the first 14 calendar days of the quarter.

Parking fees are refunded, upon surrender of the decal, according to the following prorated schedule:

- Regular quarter: 66% refunded during the first 25 calendar days of the quarter; 33% refunded during the 26th through 50th calendar days of the quarter.
- Summer session: 66% refunded during the first week; 33% refunded during the second week.

Estimated Costs per Quarter

It is estimated that students pay from $30 to $40 each quarter for books and $53.50 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.

Such debts might occur if a student fails to repay money borrowed from the College or to pay dormitory or library fees or for other services provided at his request.

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; REGISTRATION PROCESS

All students who register at California State College, San Bernar­
dino 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 com­
pleted.

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 program cards, except those courses they officially change
by filing a change of assignment with the Office of the Registrar.

Class Schedule

An official class schedule, prepared each quarter by the College, in­
cludes the registration schedule, procedure for registration, fees, classes
offered by hours and instructors, and other pertinent registration in­
formation. The schedule is available several weeks in advance of regis­
tration each quarter and may be purchased at the College Bookstore.

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>Graduate</td>
<td>Holding baccalaureate from an</td>
</tr>
<tr>
<td></td>
<td>accredited college</td>
</tr>
</tbody>
</table>

Academic Course Load

A student is normally permitted to enroll in a maximum of three
full-term courses (the equivalent of 15 quarter units). During terms in
which physical education is included, a student may be enrolled in
four courses (the equivalent of 17 quarter units).

A student may enroll in additional courses which carry fractional
course credit provided his total load is less than four full-term courses
(19 quarter units or less).
Permission to enroll in four full-term courses (20 or more quarter units) may be granted to students upon written petition to their division chairman. Students are encouraged to petition for approval if their overall grade-point average is 3.0 or better and their grade-point average for the previous term is 3.0 or better.

Students, in planning their programs, should take care to observe Selective Service and Veterans Administration regulations concerning minimum academic loads for student deferments and veterans' benefits. Selective Service Deferment Requests should be made during or shortly after registration week at the beginning of each academic year or the first quarter in which the student enrolls.

Veterans' benefit forms (Veterans Administration Certificate of Eligibility) should be on file in the Office of the Registrar prior to registration in the first quarter in which the student enrolls. For more specific information, consult the Office of the Registrar.

**Concurrent Enrollment**

A student enrolled as a degree candidate at California State College, San Bernardino ordinarily may not enroll concurrently for additional courses at another institution. The approval of the Dean of Academic Planning is required of those students who may already be enrolled at another institution at the time the student registers and matriculates at this College as a degree candidate.

In the event a matriculated student enrolls concurrently at another institution, without approval of the Dean of Academic Planning, credit for courses taken at the other institution will not be accepted by the College.

**Auditing Courses**

A student currently enrolled at the College who wishes to audit a course instead of enrolling for credit must meet regular admission requirements and pay fees in precisely the same manner as he would for credit courses. A student registered as an auditor may be required to participate in any or all classroom activities at the discretion of the instructor. A student may change his status in a course from audit to credit before the last day to add a class, provided the change is approved by his advisor and course instructor and the class is not closed to further enrollment. 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 courses without penalty for failing work. Forms for such changes may be obtained from the Office of the Registrar.

**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.

Changes in Registration

Each student is responsible for the program of courses for which he registers. Changes may be made by filing a change-of-assignment form in the Office of the Registrar.

Adding Courses

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

Withdrawal from a Class or the College

The student is assigned a grade for every course appearing on his official Student Assignment. Forms for withdrawal from a class or withdrawal from the College must be filed at the Registrar’s Office.

If a student withdraws officially from 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.

If he withdraws after the third week and not later than the end of the seventh week of classes, either a W (withdrew, passing) or WF (withdrew, failing) will be recorded, depending on whether he is passing or failing the course on the date of the request for withdrawal.

After the seventh week of classes, withdrawal from a class is not permitted. A final grade will be recorded for each class for which the student is enrolled.

Withdrawal from College (that is, from all courses) is permitted up to 10 calendar days preceding the first day of final examinations; however, the student will receive a W or WF grade in each class, depending upon whether he is passing or failing in the class on the date of filing his request for withdrawal from College. Forms for withdrawal from College may be obtained at the Registrar’s Office.

Grades

The grade symbols used at the College are as follows:

<table>
<thead>
<tr>
<th>Grade Symbol</th>
<th>Explanation</th>
<th>Grade Points Per Quarter Hour Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
</tr>
<tr>
<td>W</td>
<td>Withdrew</td>
<td>0</td>
</tr>
<tr>
<td>WF</td>
<td>Withdrew, Failing</td>
<td>0</td>
</tr>
<tr>
<td>UW</td>
<td>Unofficial Withdrawal</td>
<td>0</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>0</td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
<td>0</td>
</tr>
</tbody>
</table>
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.

\[ W \ (Withdraw, \ Passing) \] is the recorded grade if the student withdraws from a course after the last day to withdraw without penalty. A \( W \) grade is then recorded only if the student is passing at the time of withdrawal. A course with a \( W \) grade is not counted as work attempted and is not included in computing the student's grade-point average.

\[ WF \ (Withdraw, \ Failing) \] is the recorded grade if the student is failing at the time he officially withdraws from a class after the last day to drop a class without risk of penalty. A \( WF \) grade is counted as attempted work and is included in computing the student's grade-point average.

\[ UW \ (Unofficial \ Withdrawal) \] is the recorded grade if the student, on or before the last day to withdraw from classes, has stopped attending or has never attended a class for which he is registered and has failed to follow the procedures as noted under “Dropping Courses.” If, after the last day to withdraw from classes, the student stops attending a class for which he is registered, the instructor may record either the grade of \( UW \) or \( F \) at his discretion. UW grades are included in the computation of the grade-point average.

\[ I \ (Incomplete) \] is the recorded grade when, in the opinion of the instructor, a student's work is satisfactory but the student cannot complete the course during the term of enrollment for reasons beyond the student's control. A course with an \( I \) grade is not counted as work attempted and is not included in computing the student's grade-point average. A grade of \( I \), when removed, will receive the grade points appropriate to the grade received.

To remove the grade of \( I \), a student must complete remaining requirements in the manner and by a time acceptable to the instructor, but no later than the close of the next two regular terms. Incompletes earned in summer session must be completed in the next two quarters of resident study or the next resident summer session, whichever occurs first. A student may petition the Dean of Academic Planning to be exempt from this time limit.

\[ CR \ (Credit) \] is the recorded grade for courses in physical education, for special examinations and for credit awarded by examination. A course completed with the \( CR \) grade is not included in computing the student's grade-point average.

**Repeat of Courses**

Students may repeat any course in which they have received a \( D \), \( WF \), \( UW \) or \( F \) grade. In the case of an \( I \) grade, students may repeat the course with the approval of the Dean of Academic Planning. If the grade earned in the second or last enrollment is higher than the grade previously earned, it will be used exclusively in determining the grade points earned for that particular course. If the grade is the same as previously earned, both grades will be used for computing the cumulative CSCSB grade average. Courses may be repeated more than once only by permission of the Dean of Academic Planning. Courses may not be repeated at any other institution to remove the \( D \), \( WF \), \( UW \), \( F \) or \( I \) grade after the student has registered at this college.

**Final Grade Report**

Final grade reports are mailed to students within two weeks after the last day of each quarter.
Satisfactory Scholarship

A student enrolled for a bachelor's degree is expected to maintain a grade-point average of 2.0 (C) or better in his work at the College and in his entire collegiate record in order to continue in good standing. To be eligible for a bachelor's degree, a student must have a grade-point average of at least 2.0 in the courses that he takes at the College, in his entire collegiate record, and in his major field.

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.

Probation and Disqualification

A student is placed on probation if either his cumulative grade-point average or his grade-point average in work attempted at the College falls below a 2.0 (C).

A student is removed from probation and restored to good standing when he earns a cumulative grade-point average of 2.0 (C) in all work attempted and in all work attempted at this College.

A student on probation shall be disqualified for continuing enrollment when:

1. He has continued on probation for four consecutive terms and fails to remove his grade-point deficiency.

2. As a lower-division student (fewer than 90 quarter hours of college work completed) he falls 23 or more grade points below a 2.0 (C) average on all units attempted or in all units attempted at California State College, San Bernardino.

3. As a junior (90 to 134 quarter hours of college work completed) he falls 14 or more grade points below a 2.0 (C) average on all units attempted or in all units attempted at California State College, San Bernardino.

4. As a senior (135 or more quarter hours of college work completed) he falls 9 or more grade points below a 2.0 (C) average on all units attempted or in all units attempted at California State College, San Bernardino.

An unclassified graduate student is placed on probation if his grade-point average in work attempted as an unclassified graduate student at the College falls below a 2.0. He is removed from probation and restored to good standing when he earns a cumulative grade-point average of 2.0 in all work attempted as an unclassified graduate student at this College.

An unclassified graduate student, on probation, shall be disqualified for continuing enrollment when he fails to earn a cumulative grade-
point average of 2.0 in all work attempted as an unclassified graduate student at this College.

A student disqualified for scholarship deficiency may not enroll in any regular session of the College without permission of Admissions and Academic Standards Committee, and may be denied admission to the summer session.

**Readmission of Disqualified Students**

See section on readmission of previously disqualified students under Admission.

**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. The schedule for final examinations is established by the registrar. 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.

**Accelerated Progress**

Students are encouraged 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.

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 section on Academic Course Loads, page 29.

**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 division or department concerned during the first five days of the term in which the course is offered. Some pre-
sumptive evidence is required to indicate that the student has a reason-
able chance of passing the examination. The examination must be
completed within the first four weeks of the term. A limited number
of courses may be designated by a division as inappropriate to be
challenged by examination.

No fee is charged for these examinations. The grade in the examina-
tion is “credit” or “no credit.” A student who receives “credit” is
given credit for that course toward graduation, provided that this does
not duplicate credit counted for his admission to the College. No official
record is made of failures in these examinations, and grades received are
not considered in computing averages.

Examinations for course credit are given under the following re-
strictions:

1. They may be taken only by persons (a) who are in residence, or
   (b) who are candidates for degrees and need no more than four
   full-term courses to complete the requirements for their degrees.
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 exami-
nation is requested, except where permission is granted by the di-
vision or department concerned.
3. They may not be taken to raise grades or remove failures in
   courses.
4. Credit for no more than eight full-term courses may be received
   through such examinations, exclusive of courses in foreign lan-
guage challenged upon entrance to the College.
5. A student may repeat an examination for credit only upon ap-
   proval of the Dean of Academic Planning.

The procedures for earning credit by examination are described in
the class schedule.

Exact times and places of examinations are announced by the depart-
ments 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.

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and
continuing in the same curriculum in the College, in any of the Cali-
ifornia community colleges or in any combination of California com-
community colleges and this College, may, for purposes of meeting gradu-
ation requirements, elect to meet the graduation requirements in effect
either at the time of his entering the curriculum or at the time of his
graduation from the College, except that substitutions for discontinued
courses may be authorized or required by the proper college authorities.
**Class Attendance**

Class attendance is expected of all students enrolled at the College. The instructor in each course sets the standard he expects his students to meet in this regard.

When a student is absent from classes, it is his responsibility to inform his instructors of the reason for his absence and to arrange to make up missed class work and assignments. If a student expects to be absent from the College for two weeks or more, he should apply to the Office of the Dean of Students for a Leave of Absence. Should the absence be for the remainder of the term, withdrawal from the College should be initiated by the student in the Office of the Registrar. (See section on withdrawal from college.) Where such absence or withdrawal is caused by illness, the student must report to the Health Center upon return to the College.

**Leave of Absence**

A student may petition to the Dean of Academic Planning for a leave of absence 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 courses they were passing and WF in courses they were failing.

The granting of a leave of absence does not constitute a waiver of the requirement for applying for readmission and paying the application fee.

**Post-baccalaureate Credit for Senior Students**

Senior students who need fewer than three courses to graduate may be permitted to enroll for post-baccalaureate credit during the final term of their senior year. Post-baccalaureate 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. This form must be completed prior to enrolling and must be approved by the Dean of Academic Planning.

**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.
Selective Service Student Certificates

The college will provide information to the Selective Service System only upon written request of the student. The Office of the Registrar will submit this information to the Selective Service System on its Student Certificate SSS Form 109.

It is the student's responsibility to notify his local Selective Service Board or request the College to notify it if he changes his study load, withdraws, graduates, is disqualified, or for any other reason changes his educational status in such a way as to affect his Selective Service status.

Information for Veterans

Students who plan to attend the College under the Veterans Readjustment Benefits Act of 1966 (Cold War GI Bill) 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>Course Load</th>
<th>Quarter Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>12</td>
</tr>
<tr>
<td>1/4-time</td>
<td>9-11</td>
</tr>
<tr>
<td>1/2-time</td>
<td>6-8</td>
</tr>
<tr>
<td>Less than 1/2-time</td>
<td></td>
</tr>
</tbody>
</table>

See Registrar's Office

Information for Issuance of Transcripts

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

Transcripts which include final grades for that quarter will be sent three weeks after the last day of the quarter.

Only work taken at the California State College, San Bernardino will show on the transcript. Copies of transcripts from other institutions are not included.

Transcripts are issued at a cost of $1.00 per copy, payable in advance.

No transcript can be issued until all accounts with the College are clear.
UNDERGRADUATE DEGREE REQUIREMENTS

To be eligible for the bachelor of arts degree, a student must:

1. Complete a minimum of 36 full-term courses plus 3 terms of physical education, the equivalent of 186 quarter units of college credit.

2. Complete 14 full-term designated courses in General Education distributed in the following manner:
   A. Basic Studies: two courses
      One course each from two of the four following areas:
      a. English composition
      b. Mathematics
      c. Philosophy
      d. Oral communication
   B. Humanities: three courses
      One course in the arts:
      a. Art
      b. Music
      c. Drama
      d. Humanities
      Two courses in letters:
      a. Literature
      b. Philosophy
      c. Foreign studies
      d. Humanities
   C. Natural Sciences: two courses
      One course from the life sciences:
      a. Biology
      b. Natural sciences
      One course from the physical sciences:
      a. Chemistry
      b. Physics
      c. Natural sciences
   D. Social Sciences: three courses
   E. Lower-division electives: two courses
      To be chosen from two of the four major categories (A, B, C, D) above
   F. Upper-division electives: two courses
      To be chosen from among the designated upper-division, General Education lecture courses in two of three areas: Humanities, Natural Sciences and Social Sciences.

A student may readily transfer courses from a community college to satisfy each of the lower-division General Education requirements.

3. Complete all requirements for a major, including at least four upper-division courses in the major.
4. Complete at least nine full-term courses (45 quarter units) at this College.
5. Complete at least 60 quarter units of upper-division work (12 courses).
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 three courses (six quarter units) of physical education.
9. Be recommended for graduation by the faculty of the College.

A candidate for graduation must request a graduation requirement check at the Office of Admissions and Records by the dates indicated in the College calendar. No graduation requirement check should be requested unless and until the senior has completed 30 full-term courses (150 quarter units), including the current work in progress. If the candidate does not complete the requirements in the term indicated, he must request a second graduation requirement check indicating the new date at which he expects to graduate.

Courses Meeting General Education Requirements

Courses in this catalog applicable to the General Education requirements for 1972–73 are:


Humanities:
  arts: G.S. 180, G.S. 200
  letters: G.S. 170, G.S. 190, French 101–102, German 101–102, Russian 101–102, Spanish 101–102, English 110, English 111, Spanish 441, Foreign Languages 450

Natural Sciences:
  life sciences: G.S. 108, G.S. 109
  physical sciences: G.S. 118, G.S. 120, G.S. 122, G.S. 125, G.S. 126

Social Sciences: G.S. 140, G.S. 142, G.S. 144, G.S. 146, G.S. 150, G.S. 155, G.S. 160

New courses are being developed which will also satisfy the General Education requirements. Consult the current class schedule for a complete listing.

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 United States history, constitution and American ideals may be met by completing G.S. 146, American Civilization. The requirement in California state and local government may be met by completing G.S. 150, Contemporary Civilization I. Selected courses
offered by the Social Sciences Division also may satisfy the require­ments. The opportunity to meet the California state and local govern­ment requirement by passing an optional examination is given to stu­dents who transfer from outside the state. Information may be obtained from either the Admissions Office or the Social Sciences Division office.

Certain high school courses may satisfy these requirements. Details are available from the Admissions office.

Residence Requirement

A minimum of nine full-term courses (45 quarter units) must be completed at this College. At least four full-term courses (20 quarter units) must be completed among the last six such courses (30 quarter units) counted toward the degree.

Extension credit or credit by examination 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 60 units of work at 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.
High Honors: an overall undergraduate GPA of 3.75 or above.
Honors: either an overall GPA of 3.5 or above, or a GPA of 3.5 or above at California State College, San Bernardino.

Dean’s List. A full-time undergraduate student who earns a 3.5 or above in an academic quarter will be placed on a Dean’s List by the Dean of Academic Planning.

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, Mathematics, 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.

Programs can be suited to students’ individual needs in selecting courses which are specified by many professional schools as a basis for graduate study.

Pre-Professional 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 pre-professional student as long as certain basic subject areas are included in his 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 pre-professional advisor in the Natural Sciences Division.

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 pre-professional programs in dentistry and medicine place heavy emphasis in biology and chemistry, these are the two majors most often elected by pre-professional students. A pre-professional student majoring in biology should complete the biology core program, supported by courses in chemistry and physics, and should elect G.S. 131 and Biology 302. A pre-professional student majoring in chemistry should complete the chemistry core program, supported by courses in mathematics and physics, and should elect Biology 302, 403 and 407.

The science and mathematics components of pre-professional programs in veterinary medicine are quite similar to those for medicine. However, it is usually possible to gain admission to a school of veterinary medicine upon completion of two years of undergraduate work at a liberal arts college.

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.

**Pre-Professional 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 "pre-law" 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 pre-legal 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.

In choosing a major the pre-law student should give some consideration to the field of law that he plans to practice. For example, an Administration major with emphasis in accounting would be appropriate for someone planning to practice tax law. Sociology or Political Science might be appropriate for someone planning to practice criminal law. Political Science, Administration or Economics would be appropriate for general practice.

For additional information, a student should see the bulletins or catalogs of various law schools or the official "Pre-Law 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.
STUDENT LIFE

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 abide by established policies and regulations.

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 the 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.

Tutoring arrangements are also available through the Center.

The services of the Center are offered to students at no charge.

Activities
Through the Office of the Associate Dean, Activities and Housing, students and faculty are assisted in the development and operation of special interest organizations and student government. A program of sponsored activities provides opportunities for relaxation and entertainment and contributes to the cultural and intellectual life of the College. All students are members of the Associated Student Body, which is governed by an executive branch (ASB Cabinet), a legislative branch (ASB Senate) and a Judicial Board. In addition to participating in student government, students have the opportunity to serve on a majority of the College committees.

The formation of student organizations which add to the educational opportunities of students is encouraged and aided by the College. Students, faculty and staff of the College meet together in religious, professional, service, recreational, educational and cultural organizations. Recognized groups have full use of college facilities in planning their activities.

Some typical events held during the year are the fall orientation for new students, free Friday night film series, Friday afternoon rock con-
certs on the Green, quarterly choral concerts, informal dances and the traditional spring cook-out.

Guest lectures and special programs are part of each academic year. The College's theater group, Players of the Pear Garden, presents a production each quarter. The Activities Committee of the Associated Student Body organizes hootenannies, mixers, parties, dances and other events throughout the year.

In addition, other clubs and college committees sponsor such events as panel discussions, symposia, debates and films. The activities office is available to help any person or group with an activity to present.

**Housing**

Unique on-campus residence halls for 400 students will open in the fall of 1972. The eight houses accommodate 50 students each, with 10 students in a suite. Each suite has a living room, study room and bath. A recreation room and a lounge in each house add to the home-like atmosphere and provide for a wide range of activities.

Off-campus housing opportunities are listed with the Housing Office. These facilities are not inspected, approved or supervised by the College but rather are listed as a service to students and those interested in renting to students.

Questions relating to on-campus or off-campus housing should be addressed to the Housing Coordinator.

**Cafeteria**

The campus coffee shop serves light meals and refreshments prepared daily for students and staff. It will be replaced by a permanent Commons, with full dining facilities, available for use in the fall of 1972.

**Placement and Financial Aid**

The College offers a variety of financial aid programs to assist qualified students in meeting college expenses. Sources of assistance include the federally sponsored Educational Opportunity Grants, National Defense Student Loans, and the College Work-Study Program. The federally sponsored guaranteed loan program also is available. Short-term loans are available to assist students confronted with a financial emergency. In addition to these aid sources, the college administers a state grant program for students in the Educational Opportunity Program and a federal grant program for qualified employees of law enforcement agencies.

Assistance in obtaining part-time and vacation employment, both on and off the campus, is available through the Placement and Financial Aid Center. Employment on the campus is limited to an average of 15 hours during any week when classes are in session.

Applications for scholarships and all other financial assistance must be completed by April 15. Applicants are required to submit the financial need analysis obtained through the College Scholarship Service.
Appropriate information and forms can be obtained from high schools or from the College.

**College Scholarships**—The College awards a small number of scholarships each year to continuing students who possess above average academic records and who have need for financial aid. The scholarships are sponsored by the Foundation of California State College, San Bernardino and are made possible by the generosity of a number of individuals and organizations in local communities. The award amounts vary and are typically about $300.

**Sponsored Scholarships and Awards**—Special scholarships and awards are made available to new and continuing students and are given on the same basis as college scholarships described above. Interested students may contact the Financial Aid Office for special eligibility requirements for the following aid programs: Social Lites of San Bernardino, Cal State Faculty Wives Club Scholarship, Alfred F. and Chella D. Moore Scholarship Fund, PTA Scholarships, Riverside Foundation Scholarships.

**Leslie I. Harris Memorial Scholarship**—A $500 scholarship is awarded each year from the Leslie I. Harris Memorial fund, administered by the College Foundation.

**California State Scholarships**—Students apply directly to the California State Scholarship and Loan Commission for these state-sponsored awards which cover the expense of required fees. Application blanks and full information on these awards are available at high schools and colleges.

**Alan Pattee Scholarship (children of deceased peace officers or firemen)**—Surviving children, natural or adopted, of California peace officers or firemen killed in the line of duty are not charged fees or tuition of any kind while enrolled at any California State University or College, according to the Alan Pattee Scholarship Act and the Education Code, Section 23762. Students qualifying for these benefits are known as Alan Pattee scholars.

Students with physical, emotional or other disabilities which handicap them vocationally may be eligible for the services of the State Department of Rehabilitation, including vocational counseling and guidance, training, payment of books, fees or tuition, and job placement. Under certain circumstances, they may also qualify for help with medical needs, living expenses and transportation.

Career placement services are available to graduating seniors, candidates for teaching credentials, and alumni. The Center serves as a repository for the career placement papers of its students and alumni who register for this service.

**Educational Opportunity Program**

The Educational Opportunity Program, established in September 1968, is intended to provide educational opportunities for students,
primarily from minority groups, who are not eligible for admission under the present entrance requirements but who, with special assistance, have the potential to be successful in college.

Students enrolled in the program are drawn from the following categories:

1. Recent high school graduates who do not meet present entrance requirements,
2. Older individuals who have not enrolled in a college or who withdrew from college before completing degree requirements,
3. College students enrolled in a terminal vocational program who may benefit from a four-year academic program.

Students admitted to this program are provided with tutors, faculty advisors and financial assistance to the extent permitted by available resources.

For further information concerning this program, contact the Director of the Educational Opportunity Program.

**Student Health Center**

The Student Health Center provides services normally administered in a physician’s office. In addition, all students are insured under a modest basic health and accident insurance policy, which covers emergencies on or off the campus, ambulance fees (up to $100), x-ray, laboratory and physio-therapy services (by referral through the Student Health Center). Additional insurance is available at student rates which will cover dependents.

A co-operative plan with local pharmacies enables students to receive prescription medication at reduced rates.

A voluntary medical-hospital insurance plan is available at student rates. Students not already protected by an insurance program are urged to consider this supplementary plan. A brochure describing the coverage is mailed to each student upon notice of admission to the College.

Students planning to enroll at the College should note that the medical history and physical examination required by law must be submitted before registration.

**College Police Department**

The College Police Department is staffed with trained professional police officers who provide 24-hour, seven-day-a-week police and fire protection for the College community. Each college policeman is a duly sworn peace officer for the State of California and is responsible for preserving the peace, protecting life and property, preventing crime and enforcing vehicle regulations. The College Police Department is established to protect and serve the College community.
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.

The purpose of this non-profit 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 Students, Placement and Financial Aid.

Bookstore

Students are able to purchase or order books and supplies needed for classes from the on-campus bookstore, owned and operated by the College Foundation. The bookstore is a non-profit operation, with proceeds used to further the educational aims of the College.

International Programs

A study abroad program of global scope is offered by the California State University and Colleges International Programs. Year-long study opportunities for students from all 19 campuses are available at distinguished institutions of higher learning throughout the world.

Cooperating universities abroad include the University of Provence, France; the Free University of Berlin and the University of Heidelberg, Germany; the University of Florence, Italy; the University of Stockholm and the University of Uppsala, Sweden; the University of Madrid and the University of Granada, Spain; Tel Aviv University and the Hebrew University of Jerusalem, Israel; Waseda University, Japan. In the United Kingdom cooperating universities, which may vary from year to year, have included Dundee, Leicester, Liverpool, London, Oxford, Sheffield, Southampton and Wales. An area studies program, with instruction in English, also is available in Taiwan, Republic of China.

Selected students remain enrolled and continue to earn residence credit at their California State College campus. Full credit is earned for academic work successfully completed at the cooperating institutions abroad. Application of credit earned toward the degree requirements of the home campus is in accordance with college regulations. Students are selected from each campus on the basis of academic, linguistic and personal qualifications, as well as career objectives. Requirements include:

- Upper-division or graduate standing by the beginning of the academic year abroad.
- Grades of B or better in at least 30 semester or 45 quarter units.
- Proficiency in the language of instruction, as specified below.
- Faculty recommendations.
Proficiency in the language of the host country is a requirement for the programs in France, Germany, Italy (except for students applying for the area studies program) and Spain. Even where language proficiency is not required, however, competence in the language of the host country will assure broader curricular opportunities.

Average expenses for the entire year—including round-trip transportation between California and the study centers, room and board, health and accident insurance, home campus fees, moderate vacation traveling, textbooks and personal expenses—range from $2,600 to $3,050. Students ordinarily remain eligible for any financial aids for which they otherwise would qualify on their home campus.

Application for the 1973–74 academic year must be submitted before March 1, 1973 (except for United Kingdom applicants who must submit applications by January 5, 1973). Applicants are notified of acceptance by April 1, 1973. Detailed information may be obtained on campus from the Associate Dean of Admissions and Records or by writing to the California State University and Colleges International Programs, 5670 Wilshire Boulevard, Los Angeles, 90036.
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

The Extension program provides opportunities for college-level study, primarily at off-campus locations, at times and places most convenient to varied groups of part-time students.

Extension offerings include courses selected from the established curriculum and new courses designed to meet expressed needs and desires of specific groups and communities.

A maximum of 36 quarter units of degree-applicable credits may be earned through Extension study, in upper-division courses from the regular curriculum. Courses offered only through Extension are numbered in the 800-series and confer Extension credit.

Summer Session

Summer sessions afford both regular and nonmatriculated students opportunity to pursue undergraduate or graduate study in virtually all of the College’s academic majors and in professional education courses.

There is no prior application required nor are there formal procedures for admission to summer study. Course credits earned in the summer are accepted in degree programs, however, when students subsequently make successful application for admission and 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.

Late-Day Classes

Classes are offered on campus in the late afternoon and evening as part of the regular College instructional program for the convenience of teachers, businessmen and others in the community who wish to pursue degree and credential objectives while working full-time.
Such classes are in every respect the equal of classes offered earlier in the day. They are open only to matriculated students, they have identical prerequisites and requirements, and they confer equal credits.

Development of opportunities for part-time students to complete bachelor’s degree programs by attending late-day classes is being coordinated through the Office of Continuing Education.

Students who wish to undertake a degree-completion program through late-day attendance on campus should advise with the faculty of their proposed major field regarding the availability of required courses, and then apply for admission to the College in the usual manner. Those with limited study time should note that a single late-day course constitutes one-third of a full load.

Community Programs

The Office of Continuing Education with its adjunct Community Programs Center provides for continuing liaison among campus and community groups and organizations with common interests and concerns.

It assists community groups and agencies in identifying and utilizing campus resources, particularly the expertise of faculty members. It assists students and faculty in efforts both to give service to the community and to utilize it as an instructional resource.

As the coordinating agency for grant-aided programs, the Office maintains files on funding sources and assists in procurement of resources for campus-community research and service projects.
Divisions of the College

The instructional areas of the College are grouped into three Divisions as follows:

<table>
<thead>
<tr>
<th>Humanities</th>
<th>Natural Sciences</th>
<th>Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>Biology</td>
<td>Administration</td>
</tr>
<tr>
<td>Drama</td>
<td>Chemistry</td>
<td>Anthropology</td>
</tr>
<tr>
<td>English</td>
<td>Mathematics</td>
<td>Economics</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>Physics</td>
<td>Geography</td>
</tr>
<tr>
<td>Music</td>
<td></td>
<td>History</td>
</tr>
<tr>
<td>Philosophy</td>
<td></td>
<td>Political Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy</td>
</tr>
<tr>
<td>Sociology</td>
</tr>
</tbody>
</table>

In addition, courses of instruction are offered in the following Departments:

Education
Physical Education

Course Numbering System

The “full-term course” is the unit of measurement of academic credit at the California State College, San Bernardino. For purposes of comparison with other colleges, a full-term course matches or exceeds the standards required of a conventional 5 quarter-hour course or a 3 1/3 semester-hour course.

- **1-99**: Non-credit courses
- **100-299**: Lower-division courses designed primarily for freshmen and sophomores
- **300-499**: Upper-division courses of junior and senior level which may give graduate credit when taken by a graduate student. (Note courses must be accepted in specific graduate program.)
- **500-599**: Courses for advanced upper-division, fifth-year credential and graduate students
- **600-699**: Courses for graduate students
- **X800-X899**: Courses offered through extension only
- **IP100-IP699**: Courses taken by students in the International Programs

NOTE: All information and announcements herein are subject to change without notice. All students should consult the Class Schedule issued before each term to determine the courses available that term.
Written English Proficiency

Most upper-division and many lower-division courses require a substantial amount of written work. General proficiency in standard English is required in these courses. Deficiency in writing ability may be regarded as sufficient reason for failure in any course in which the deficiency is apparent.

Major Fields of Study

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

Not later than the beginning of the junior year, each student shall select one or more specialized areas in which he wishes to concentrate. Thereafter his program will be supervised by an advisor from his chosen major department.

Major programs are available in 1972–73 in the fields listed below.

Division of Humanities
   Art
   Drama
   English
   French
   Humanities
   Music
   Philosophy
   Spanish

Division of Natural Sciences
   Biology
   Chemistry
   Mathematics
   Physics

Division of Social Sciences
   Anthropology
   Business Administration
   Economics
   Geography
   History
   Political Science
   Psychology
   Social Sciences
   Sociology
GENERAL STUDIES

The General Studies program provides all students with a common understanding of the major fields of knowledge. The courses in the General Studies program span many fields in the natural sciences, the social sciences and humanities and complement the student's special interests.

Students enroll in General Studies courses through all four undergraduate years. The Senior Seminar is the final required course in the program. Graduation requirements in the General Studies program are listed on page 41.

G.S. 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 is required.

G.S. 108. TOPICS IN BIOLOGY. The major generalizations of biology with particular emphasis on man’s interaction with the biosphere. Lecture and laboratory.

G.S. 109. ORGANISMS AND EVOLUTION. An elective alternate to G.S. 108 for students anticipating further course work in biology. A treatment in depth of the nature, organization and evolution of living systems. Lecture and laboratory.

G.S. 118. A SURVEY OF PHYSICS. A study of motion followed by consideration of advances in physics which have influenced man’s visualization of the universe. A knowledge of elementary algebra is desirable. Lecture and laboratory. An elective alternate to G.S. 120.

G.S. 120. BASIC CONCEPTS OF PHYSICS I. A survey of the fundamental concepts of physics beginning with a study of Newtonian mechanics. Lecture and laboratory. Prerequisite: two years of high school algebra or equivalent.

G.S. 122. CLASSICAL MECHANICS AND KINETIC THEORY. An elective alternate to G.S. 120 with a more advanced treatment of basic concepts and theories for students with a strong background in science and mathematics. Lecture and laboratory. Prerequisite: G.S. 131 or equivalent.

G.S. 125. BASIC CONCEPTS OF CHEMISTRY. Historical development of theories concerning the structure of matter and the nature of chemical change. Lecture and laboratory.

G.S. 126. ATOMIC STRUCTURE AND CHEMICAL BONDING. An elective alternate to G.S. 125 which features an examination in depth of the structure of matter. The laboratory deals with the application of quantitative analysis to the stoichiometry of chemical compounds. Prerequisites: Two years of high school science and three years of high school mathematics, or consent of instructor.

G.S. 130. THE IDEAS OF MATHEMATICS. The development of mathematical ideas and the impact of mathematical thought on our culture.

G.S. 131. BASIC CONCEPTS OF CALCULUS. An elective alternate to G.S. 130. A heuristic treatment of limit processes in a historical setting, with applications to mechanics, geometry, periodic phenomena and optimization problems.

G.S. 140. WORLD CIVILIZATIONS I, THE RISE OF CIVILIZATION. Survey of the 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.
General Studies

G.S. 142. WORLD CIVILIZATIONS II, THE CIVILIZATIONS OF THE EAST AND WEST. Survey of the major achievements of the great civilizations from the flowering of Greek culture to the close of the Middle Ages in Europe.

G.S. 144. WORLD CIVILIZATIONS III, THE EXPANSION OF EUROPE. Survey of the rise to dominance of the European states and their impact throughout the world, 1500 A.D. to the present.

G.S. 146. AMERICAN CIVILIZATION. History of the United States as it emerged from colonial status to the present time. This course meets the State Code requirement in United States History, Constitution, and American ideals.

G.S. 150. CONTEMPORARY CIVILIZATION I. Description and analysis of the 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.

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

G.S. 160. CONTEMPORARY CIVILIZATION II. Interpretation of contemporary society in the light of the knowledge and theories of sociology, anthropology, and psychology.

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

G.S. 180. STUDIES IN MUSIC. Exploration of the elements of music and the nature of meaning and musical style, with emphasis on listening and analysis.

G.S. 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 selections from Greek, medieval, early modern, and contemporary philosophers.

G.S. 200. STUDIES IN ART. Exploration of the form and content of art.

G.S. 202. STUDIES IN LANGUAGE AND STYLE. An advanced writing course. An analytical study of language and the ways language is used in a variety of written and spoken forms; emphasis on frequent expository writing. Not open to freshmen or to students who have completed two terms of Freshman Composition. Prerequisite: G.S. 101 or equivalent.

The General Studies Senior Seminar is designed to help the student develop powers of investigation, analysis, and interpretation. Each student is obliged to select his General Studies Senior Seminar from among offerings of an academic division other than that of his major field of concentration.

Students normally enroll in a General Studies Senior Seminar in their senior year. Senior seminars may build on background material from relevant General Studies courses. It is therefore strongly urged that such General Studies courses be taken before the Senior Seminar.

G.S. 401. SENIOR SEMINAR: UTOPIA: THE IDLE DREAM? A study of the nature of utopias, the circumstances fostering their conception, and the extent to which purpose, deceit, and desire go into their making. Offered by the Division of Humanities.
G.S. 402. SENIOR SEMINAR: INDIVIDUALITY OR CONFORMITY; ALIENATION OR COMMUNITY. Readings from literature, philosophy, and social analysis as the basis for discussion of the crisis in the individual's sense of himself and in his relation to others. Offered by the Division of Humanities.


G.S. 404. SENIOR SEMINAR: ASSUMPTIONS, METHODS, AND PROBLEMS IN THE NATURAL AND SOCIAL SCIENCES. Analysis of some typical twentieth-century works in the natural and social sciences in order to examine such problems as moral relativism in anthropological literature, Freud and psychoanalytic explanations of art and religion, mechanical technique and creative invention in mathematics, and theories of evolution. Offered by the Division of Humanities.

G.S. 405. SENIOR SEMINAR: CREATIVE MAN. A study of the processes of creativity, explored through reading, discussion, experimentation, and examination of relevant examples from the arts. Offered by the Division of Humanities.

G.S. 406. SENIOR SEMINAR: THE LIMITATIONS OF SCIENCE. A study of the scope and limitations of science, including discussions of the present attitudes of society toward science, the limitations inherent in the scientific method, the economic limitations of science, and the limitations of science due to the nature of man. Offered by the Division of Natural Sciences.

G.S. 407. SENIOR SEMINAR: BIOLOGICAL BASIS OF SOCIAL BEHAVIOR. An inquiry into the kinds of animal groups and their significant characteristics. A wide variety of social traits and processes shared by animals and man will be examined. Offered by the Division of Natural Sciences.

G.S. 408. SENIOR SEMINAR: HUMAN VALUES IN A SCIENTIFIC AGE. A study of the effect of science on human values, including consideration of problems caused by the machine age and rapid scientific growth as well as possible solutions. Offered by the Division of Natural Sciences.

G.S. 409. SENIOR SEMINAR: PROBABILITY, INDETERMINACY AND RELATIVITY. How the principles of relativity and indeterminacy have radically altered man's ideas about the universe. Prerequisite: G.S. 120 or equivalent or consent of instructor. Offered by the Division of Natural Sciences.

G.S. 410. SENIOR SEMINAR: HISTORY AND DEVELOPMENT OF SCIENTIFIC THOUGHT. An examination of the history of major scientific developments in the natural sciences which have changed man's concept of himself and the universe. Offered by the Division of Natural Sciences.

G.S. 411. SENIOR SEMINAR: THE AMERICAN WORKER IN AN AFFLUENT SOCIETY. An historical analysis of the role of the American working man and woman in this society since 1900, with emphasis on the problems of labor unions in crisis and success and the changing status of the worker in America. Offered by the Division of Social Sciences.
General Studies

G.S. 412. SENIOR SEMINAR: PEASANT CULTURES IN THE MODERN WORLD. An intensive study of 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. Offered by the Division of Social Sciences.

G.S. 413. SENIOR SEMINAR: CONSENSUS AND CONFLICT IN AMERICA. An examination of various views of the problems of consensus and conflict in American history as they are approached by historians, political scientists, sociologists, journalists and others in the social sciences. Offered by the Division of Social Sciences.

G.S. 414. SENIOR SEMINAR: MAJOR POLITICAL PARTIES IN THE UNITED STATES. An examination of the strengths and weaknesses, the changes and continuities, that have characterized the American two-party system since its inception. This course will stress how the two-party system, which was not foreseen by the framers of the Constitution, has molded American historical development. Offered by the Division of Social Sciences.

G.S. 415. SENIOR SEMINAR: THE MACHINE AND MAN. The study of the effects of the machine on man in his many facets: social, political, and economic. Based on the English experience, the sources will include novels, histories, and sociological tracts. Offered by the Division of Social Sciences.

G.S. 416. SENIOR SEMINAR: UNITED STATES' NATIONAL SECURITY POLICY. A study of the problems of the United States' national security policy to include various approaches employed by social science disciplines in the examination of policy formation and administration. Offered by the Division of Social Sciences.

G.S. 417. SENIOR SEMINAR: CONCEPTS OF TWENTIETH CENTURY PHYSICS. Topics such as elementary particles, nuclear energy, space physics, quantum theory. Prerequisite: G.S. 120 or equivalent or consent of instructor. Offered by the Division of Natural Sciences.

G.S. 418. SENIOR SEMINAR: FRONTIERS IN SCIENCE. A presentation of the ideas, concepts and discoveries of science that are currently unfolding. Major advances in several disciplines of science and their border areas, such as the molecular basis of heredity, evolution of the elements and the universe and new chemical materials will be discussed. Offered by the Division of Natural Sciences.

G.S. 419. SENIOR SEMINAR: MYTH, METAPHOR, AND SYMBOL. A study of modes of expression in the natural sciences, the social sciences, and the arts. Offered by the Division of Humanities.

G.S. 420. SENIOR SEMINAR: THE DEATH OF GOD. An examination of the implications of Nietzsche's statement "God is Dead!" with references to the alternatives available to modern man on the meaning and purpose of life. Offered by the Division of Humanities.

G.S. 421. SENIOR SEMINAR: BIOLOGY OF POPULATIONS. An inquiry into the components which characterize populations, stressing the importance of biological, chemical and sociological control of population growth; evaluation of the relationship of growth curves to natural resources. Offered by the Division of Natural Sciences.
G.S. 422. SENIOR SEMINAR: VIOLENCE, REVOLUTION AND PROGRESS. Study of theoretical defenses and criticisms of violence and revolution as a means of social improvement. Offered by the Division of Humanities.

G.S. 423. SENIOR SEMINAR: SONGS OF THE ROCK GENERATION. The significance of popular music in the sixties. Technology and media in contemporary America. A study of the formal and historical elements in the songs of Dylan, Lennon, McCartney, Simon and others. Offered by the Division of Humanities.

G.S. 425. SENIOR SEMINAR: HISTORY AND THEORY OF ORGANIZATION. A study of man's efforts to organize human activity. The seminar will survey the evolution of forms or organization and will inquire into the assumptions underlying contemporary forms and the theories that have been advanced to explain them. Offered by the Division of Social Sciences.

G.S. 426. SENIOR SEMINAR: BUSINESS AND THE URBAN CHALLENGE. The changing role of business in our society and the impact of changing value structures upon business goals and ethics. Offered by the Division of Social Sciences.

G.S. 427. SENIOR SEMINAR: EDUCATION AND SOCIETY. An analysis of the process of education from the position of the individual seeking and becoming and the social institutions which facilitate and inhibit this process. Offered by the Department of Education.

G.S. 428. SENIOR SEMINAR: RELIGION, ETHNICITY AND POLITICS. An examination of the dynamics and impact of religious and ethnic groups upon the American political process. Emphasis will be given to the nature and extent of bloc voting and its consequences for the American political system. Offered by the Division of Social Sciences.

G.S. 429. SENIOR SEMINAR: THE HISTORICAL MENTALITY. An examination of the historical mental outlook, its supporters and critics. Different historically oriented world views will be investigated as well as anti-historical belief structures. Offered by the Division of Social Sciences.

G.S. 430. SENIOR SEMINAR: THE SCIENCE OF HEREDITY AND HUMAN AFFAIRS. Readings and discussions in topics such as role of genetics in selection and improvement of plants and animals including man; insecticides and radioactivity and possible mutagenic effects; the role of genetics in forensic medicine; genetic engineering and man's future. Offered by the Division of Natural Sciences.

G.S. 431. SENIOR SEMINAR: THE BIOLOGICAL SCIENCES AND PUBLIC POLICY. Complex social problems involving the biological sciences, such as environmental pollution, genetic control and possible responses, both public and private, to such problems. Offered by the Division of Natural Sciences.

G.S. 432. SENIOR SEMINAR: 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. Prerequisites: G.S. 120 and G.S. 125, or equivalent. Offered by the Division of Natural Sciences.

G.S. 433. SENIOR SEMINAR: MAN AND HIS ENVIRONMENT. Effects of science and technology on the environment, including the effects upon man. Prerequisites: G.S. 108, G.S. 120, G.S. 125, or equivalent. Offered by the Division of Natural Sciences.
The Department of Administration offers a major in Business Administration in a program designed to prepare students for careers in business administration, government service and institutional administration. The program provides a well-rounded foundation for the student planning graduate studies leading to masters degrees in business administration, public administration or hospital administration. It also provides an excellent foundation for the student who intends to enter law school.

Prior to starting the program in Administration, the student must complete the following prerequisite courses: Economics 100 and 102, Social Sciences 210 and Mathematics 101. Prerequisites can be met by equivalent transfer courses taken at community or other colleges or universities.

Requirements for the major: Administration 301, 302, 303, 304 and 306, plus six additional courses in Administration. Of the six additional courses three must be selected from one of the following categories:

Management—Administration 455, 460, 510
Quantitative Methods—Administration 360, 400, 465
Accounting and Finance—Administration 340, 342, 430
Marketing—Administration 405, 410, 440
Public Administration—to be arranged in consultation with a departmental advisor.

and three shall be selected on an elective basis. Elective courses include: Administration 330, 350, 420, 435, 445, 470, 520, 530 and 540.

Transfer students may be given credit for two lower-division courses toward completion of the elective requirements. Elective requirements may be satisfied, in consultation with departmental advisor, by completing designated courses offered in related fields.

A major in Business Administration and the course Administration 499 qualify students for a secondary teaching credential in Business Education. In addition to the course work for the major, proficiency is required in one of the following areas: typing, shorthand, business machines.

301. MANAGEMENT PRACTICES. Fundamentals of management including studies in planning, organizing, directing, leading and controlling business activity. Concepts and practices are developed through case studies of management situations.
Administration

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; includes topics in set theory, functional analysis, linear algebra, interest and annuities. Prerequisite: Consent of instructor.

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

330. LEGAL ENVIRONMENT OF BUSINESS. Study of our 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. Prerequisite: Administration 306.

342. ADVANCED MANAGERIAL ACCOUNTING. Continuation of Administration 340 with emphasis on development of sophisticated analytical accounting models. Prerequisite: Administration 340.

350. ADMINISTRATIVE COMMUNICATIONS. Techniques and methods of analysis; practical exercises in oral and written communications for administrative situations.

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 Social Sciences 210.

400. QUANTITATIVE DECISION METHODS. Quantitative methods of analysis used in solution of administrative problems. Including linear programming and calculus applications. Prerequisite: Administration 304.

405. MARKETING MANAGEMENT. Marketing functions including products, channels, pricing and promotion.

410. CONSUMER BEHAVIOR. Nature and determinants of consumer attitudes, consumption and purchasing behavior. Prerequisite: Administration 405.

420. COMPUTER MANAGEMENT. Non-technical approach to techniques, equipment and a programming language; programming, debugging and running management programs. Prerequisite: Administration 304.

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.

435. INVESTMENT ANALYSIS. Analysis and forecasting of security markets, industry studies, portfolio construction. Prerequisite: Administration 303.
440. MARKETING RESEARCH. Analysis of markets, survey methodology, sample design, quantitative techniques in market research projects. Prerequisites: Administration 304 and 305, Social Sciences 210.

445. LOGISTICS MANAGEMENT. Rationale of channel evaluation, institutional patterns, comparative retail-wholesale systems, inventory, warehousing and physical distribution systems and controls; government logistics. Prerequisite: Administration 405.

455. INDUSTRIAL RELATIONS AND PERSONNEL MANAGEMENT. Policies relating to human resources; manpower planning, personnel selection and development, performance appraisal, compensation, relationships with unionized employees, collective bargaining. Prerequisite: Administration 405.

460. PRODUCTION PLANNING AND CONTROL. Analysis of production resources; measurement and evaluation of man-machine systems; forecasting, planning and scheduling; quality and quantity control.

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.

499. METHODS AND MATERIALS IN THE TEACHING OF BUSINESS. May not be counted toward fulfilling requirements of courses in a major. Prerequisites: Education 300, senior or graduate standing and admission to the teacher credential program.

510. ORGANIZATION AND MANAGEMENT THEORY. Development and analysis of organization and management theory. Comparative analysis seeking patterns and systematic explanations of differences among organizations. Dynamics of interaction between organizations and environment.

520. ANALYSIS OF BUSINESS CONDITIONS. Measurement and analysis of general business conditions; role of economic, industrial and corporate forecasting in managerial planning. Prerequisites: Administration 304, Economics 102 and Social Sciences 210.

530. BUSINESS AND SOCIETY. Evaluation of American business systems; political, legal and social factors influencing business; role of business in alleviating society's problems.

540. FEDERAL TAXATION ADMINISTRATION. Analysis of federal taxes with emphasis on research, contemporary interpretations and business policy formulation. Prerequisites: Administration 306 and senior standing.

555. INDEPENDENT STUDY. Special topics involving library and/or field research. Prerequisites: Department approval of written proposal of project and consent of instructor.
Requirements for the major: a minimum of eight upper-division courses in Anthropology including Anthropology 301, 455, 460, 470, 511 and 550, and one course chosen from Anthropology 305, 310, 315 or 351. Anthropology 100 and 200 or an equivalent background are ordinarily required for enrollment in upper-division courses in Anthropology.

A comprehensive examination covering the major field of study will be required in the senior year, but will be graded “Pass with Honors” or, not recorded.

Requirements for a minor in Anthropology include the following courses: Anthropology 100, 200 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.

200. INTRODUCTION TO ANTHROPOLOGY: CULTURE AND SOCIETY. The basic concepts and approaches used by anthropologists in the study of peoples and societies.

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 ARCHEOLOGY. The prehistoric cultures of the American Southwest, their origins, characteristics and relationships.

320. EASTERN NORTH AMERICAN ARCHEOLOGY. The prehistoric cultures of Eastern North America, their origins, characteristics and relationships.

351. INDIANS OF NORTH AMERICA. The prehistory, history, culture, social structure and present situation of the Indians north of Mexico.

355. INDIANS OF LATIN AMERICA. The prehistory, history, culture, social structure and present situation of the Indians of Latin America.

WORLD CULTURES (ANTHROPOLOGY 400 and 405)

Emphasis in the following courses is on major problems of current interest to the cultural anthropologist. Topics include general description of the 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.
Anthropology

400. PEOPLES OF AUSTRALIA

405. PEOPLES OF MICRONESIA, MELANESIA AND POLYNESIA.

455. ADVANCED PHYSICAL ANTHROPOLOGY. Human biology and variation through time and space, stressing such topics as population genetics, the concept of race and evolutionary theory.

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

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.

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 AND CONTROL. A comparative description and analysis of social integration and control in human societies.

511. HISTORY OF ANTHROPOLOGICAL THEORY. The origins and evolutionary development of anthropological theory.

550. FIELD WORK IN ANTHROPOLOGY. Supervised design, execution and analysis of a field project.

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

Requirements for the major: twelve courses in Art including Art 201, 202, 203, 210, 211, 312 and one of the following: 311 or 314. In addition, at least two upper-division courses in one of the following areas of concentration: painting, sculpture, ceramics, crafts; and three upper-division electives in the department.

In the senior year, Art majors are required to arrange an exhibit of representative examples of studio work completed while in residence at this college.

Requirements for a minor in Art: Art 201, 202, 203, 210, 211, 312 and one upper-division studio course.

201. FOUNDATION STUDIO IN ART. The interaction of color and light complemented by the study of freehand drawing.

202. FOUNDATION STUDIO IN ART. The properties of human vision and their implications concerning the nature of the pictorial surface.

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

Art 201, 202 and 203 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. ART HISTORY I. The history and development of styles and procedures in art from prehistoric times through the Middle Ages.

211. ART HISTORY II. The history and development of styles and procedures in art from the proto-Renaissance period in Italy to the rise of French Impressionism.

311. AMERICAN ART. The development of American art from the Colonial period to 1950. Significant examples from the fields of architecture, sculpture, painting and the minor arts.

312. CONTEMPORARY ART. The development and significance of contemporary art in the Western World. Prerequisite: G.S. 200 or Art 210 and 211 or equivalent.

314. THE ART OF INDIGENOUS PEOPLES. The art of the native cultures of North, Central and South America; the South Pacific; Africa.

315. ARTS OF THE FAR EAST. History and development of the arts of India, China, Japan and Southeast Asia.

316. ARTS OF THE NEAR EAST. History and development of the arts of the ancient Near East and Islam.
Art

325. STUDIES IN THE ARTS OF MEXICO AND THE MEXICAN AMERICAN. Topics in the painting, architecture, sculpture and pottery of Mexico from pre-Columbian times to the present day.

331. PAINTING I. The pictorial functions of formal elements of picture-making such as line, plane, color and light, pattern and edge. Prerequisites: Art 201, 202 and 203.

332. PAINTING II. A more conceptual extension of the implications of scale in the formal functions of line, plane, color and light, pattern and edge. Prerequisite: Art 331 or consent of instructor.

340. SCULPTURE I. Introduction to sculpture using a variety of materials, tools and processes. Prerequisites: Art 201, 202 and 203.

341. SCULPTURE II. Continuation of Sculpture I. Prerequisite: Art 340 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.

355. CERAMICS II. Continuation of Ceramics I including kiln management and the formulation of glazes and clay bodies. Prerequisite: Art 203 or consent of instructor.

370. CRAFTS DESIGN I. Craft processes and techniques in the design and construction of objects in metal, wood, leather, fibres and plastics. Prerequisite: Art 203 or equivalent.

371. CRAFTS DESIGN II. Craft processes and techniques in the design and construction of objects in metal, wood, leather, fibres and plastics. Prerequisite: Art 370 or consent of instructor.

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

480. MEANS AND MEDIA SEMINAR WORKSHOP. Experimentation in various materials chosen by the individual student. Prerequisite: completion of the two-term sequence in any of the art studio specialties.

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 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 with consent of instructor. Prerequisites: Art 210, 211, 311 and 312 or consent of instructor.
Requirements for the major: nine courses in Biology, including 200, 203, 401, 403, 405 or 406, 407, 409 and two additional upper-division courses in Biology; Chemistry 202, 301 and 302; Physics 102 or 202; Mathematics 150; three electives, at least two at the upper-division level, are to be selected in consultation with the departmental advisor.

General Studies natural science requirements for the major: G.S. 109, G.S. 126, G.S. 120 or G.S. 122 and G.S. 130 or G.S. 131.

Pre-professional students of medicine or dentistry seeking a major in biology should refer to page 43 of this catalog and consult with a departmental advisor.

Requirements for a minor in Biology: six Biology courses including Biology 200; 403; 401 or 405 or 406; 407; 409; and one course in organismic biology. Chemistry 202, 301 and 302 are also required.

In the following courses, field trips are normal and frequent: G.S. 109 and Biology 203, 301, 303, 409 and 511.

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 in the first two paragraphs above), take at least five courses in the major at CSCSB, 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.

200. BIOLOGY OF THE CELL. Introduction to cellular structure and function. Lecture and laboratory. Prerequisite: G.S. 126.

203. BIOLOGY OF THE PROTISTA AND HIGHER PLANTS. A survey of the major structural and physiological features in the evolution of protista and plants. Lecture and laboratory. Prerequisite: G.S. 109.

301. BIOLOGY OF THE INVERTEBRATES. The evolution of the invertebrate phyla with emphasis on major phylogenetic changes. Lecture and laboratory. Prerequisite: G.S. 109.
Biology

302. BIOLOGY OF THE CHORDATES. Consideration of structural, physiological and ecological changes in the evolution of the chordate groups. Lecture and laboratory. Prerequisite: G.S. 109.

303. BIOLOGY OF ARTHROPODS. Terrestrial arthropods, with consideration of their evolution, morphology, physiology and behavior. Lecture and laboratory. Prerequisite: G.S. 109, equivalent or consent of instructor.

306. 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 laboratory. Prerequisite: Biology 203 or equivalent.

307. INTRODUCTION TO PATHOBIOLOGY. Causes, mechanisms and consequences of disease in plants and animals at all levels of biological organization. Lecture and laboratory. Prerequisites: G.S. 109, Biology 200, or equivalent.

311. BIOLOGY OF SYMBIOSIS. The nature and principles of symbiosis with a survey of various types of symbiotic relationships such as commensalism, mutualism and parasitism among plants and animals, with special emphasis on animal parasites. Prerequisite: G.S. 109.

320. HISTORY OF BIOLOGY. The major developments in biological thought and their social impact from the Greeks to the present. An elective course for non-majors as well as majors in Biology. Prerequisite: G.S. 108 or G.S. 109 or equivalent. Recommended: G.S. 142 and G.S. 144.

330. TAXONOMY OF THE VASCULAR PLANTS. Taxonomic characteristics of vascular plant orders and families, with laboratory investigation of illustrative living and preserved plant material. Lecture and laboratory. Prerequisite: Biology 203 or equivalent.

350. LOCAL FLORA. Identification of flora of the immediate San Bernardino area. Field collections, lecture and laboratory. May not be counted toward fulfilling requirements in the major by students already receiving credit for Biology 330. Prerequisite: G.S. 109 or equivalent.

355. BIOLOGICAL ASPECTS 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. Prerequisite: G.S. Biology or equivalent.

401. MOLECULAR BIOLOGY. A basic course in biological chemistry with emphasis on gene function. Lecture and laboratory. Prerequisites: G.S. 109, Biology 200, and Chemistry 302.

403. GENETICS. Principles of classical and modern genetics including an introduction to population genetics. Lecture and laboratory. Prerequisite: G.S. 109.

404. EVOLUTION. Darwin, the modern view of evolution and the implications of evolution in other disciplines. An elective course for majors and non-majors. Prerequisite: G.S. 108 or G.S. 109 or consent of instructor.

405. COMPARATIVE ANIMAL PHYSIOLOGY. A comparative analysis of the physiological mechanisms and processes of organisms with emphasis upon trends of evolutionary specialization. Lecture and laboratory. Prerequisites: G.S. 109, Biology 200 and completion of or concurrent enrollment in Chemistry 302.
406. 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 laboratory. Prerequisites: Biology 200, 203 and completion of or concurrent enrollment in Chemistry 302.

407. 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 laboratory. Prerequisites: G.S. 109 and Biology 200.

409. 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, laboratory and field studies. Prerequisites: Completion of or concurrent enrollment in Math 150 and one of the following: Biology 203, 301, 302 or 303.

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

511. THE GENETICS AND ECOLOGY OF POPULATIONS. A study of the genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Lecture and laboratory. Prerequisite: Biology 403 or equivalent. Recommended: Biology 409 or equivalent.

520. SEMINAR IN CHEMICAL AND MOLECULAR BIOLOGY. An interdisciplinary course treating such topics as syntheses and biological effects of natural products, biological catalyses, intermediary metabolism and molecular biology. Emphasis is on the study of original research papers. Prerequisite: Biology 401 or Chemistry 431 or consent of instructor.

521. BIOLOGY OF MICROORGANISMS. A study of microorganisms and their activities: microbial cell structure and function, metabolism, microbial genetics, microbial ecology, viruses, pathogenic microorganisms and immunity. Lecture and laboratory. Prerequisite: Biology 401 or Chemistry 431 or consent of instructor.

531. COMPARATIVE ENDOCRINOLOGY. Consideration of the endocrine control of metabolism, reproduction, differentiation, and the role of endocrines in the adaptation of selected invertebrates and vertebrates. Lecture and laboratory. Prerequisite: Chemistry 302 or equivalent.

555. INDEPENDENT STUDY. Research in genetics, molecular biology, microbiology, animal and plant physiology, and ecology conducted under the direction of a faculty member. Prerequisite: consent of instructor and department.
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, and veterinary medicine, and for those contemplating graduate work for advanced degrees; (2) participation in the teaching credential program; (3) teaching of fundamental chemical science required by students majoring in related fields such as physics and biology; and (4) stimulation of interest in and understanding of the achievements and contributions of the science of Chemistry to our civilization for non-science students as a part of the general education program.

Requirements for the major: a minimum of eight courses in Chemistry including Chemistry 202, 321, 322, 351, 371, 451, 452 and one advanced Chemistry course; Mathematics 201 and 202; one or two courses in Physics.

A comprehensive examination covering the major field of study will be required in the senior year.

A graduate will be awarded departmental honors in chemistry after meeting the following requirements: earn at least a 3.5 average in all Chemistry course work taken at CSCSB with a minimum being five chemistry courses, receive at least a 3.0 average on the comprehensive examinations, and earn an A in Chemistry 555 or in another way offer a clear demonstration of ability to do independent work in Chemistry.

Students seeking a major program meeting the minimum requirements of the American Chemical Society must complete three additional advanced courses in Chemistry, must present German or Russian as their foreign language, and must elect Physics 202 and 203.

Chemistry majors shall fulfill their General Studies Physical Science requirement by electing G.S. 122 and G.S. 126 and their General Studies Mathematics requirement by electing G.S. 131. With the consent of the departmental advisor students may substitute a General Studies Senior Seminar for a lower-division General Studies course in the same field.

Pre-professional students of medicine or dentistry seeking a major in chemistry should refer to page 43 of this catalog and consult with a department advisor.

Students interested in options such as environmental science, environmental law, business and clinical chemistry can pursue these by
Chemistry

following the minimum requirements of the major and appropriate electives.

Requirements for a minor in Chemistry: six Chemistry courses including Chemistry 202, 351, 451, 301 and 302 or 321 and 322, 371 or 452. Mathematics 201, 202 and Physics 102 or 202 are also required.

202. INTRODUCTION TO CHEMICAL KINETICS AND EQUILIBRIUM. Chemical reaction kinetics and mechanisms together with a study of chemical equilibria, particularly ionic equilibria. Laboratory work includes both qualitative and quantitative analysis. Prerequisite: G.S. 126 or consent of instructor.

301. ORGANIC CHEMISTRY I. A descriptive discussion of carbon compounds, including modern concepts of structure, reaction mechanisms, and reactivity. Major emphasis placed on organic compounds from nature. Lecture and laboratory. For non-chemistry majors only. Prerequisite: Chemistry 202 or consent of instructor.

302. ORGANIC CHEMISTRY II. A continuation of Chemistry 301. Prerequisite: Chemistry 301 or consent of instructor.

321. PRINCIPLES OF ORGANIC CHEMISTRY I. A detailed study of organic molecules and their structures, reaction mechanisms, stereochemistry and synthesis. Lecture and laboratory. Prerequisite: Chemistry 351 or consent of instructor.

322. PRINCIPLES OF ORGANIC CHEMISTRY II. A continuation of Chemistry 321, with inclusion of topics in heterocyclic and natural products chemistry. Lecture and laboratory. Prerequisite: Chemistry 321 or consent of instructor.

351. INTRODUCTION TO CHEMICAL THERMODYNAMICS. A study of the three laws of thermodynamics and their application to chemistry. A number of applications in the area of analytical chemistry (e.g., electroanalytical chemistry) are considered in the laboratory work. Prerequisites: Chemistry 202 and Mathematics 201, or consent of instructor.

371. INORGANIC CHEMISTRY. The study of inorganic compounds and reactions. Special emphasis is placed on structure, mechanism and thermodynamic principles. Lecture and laboratory. Prerequisite: Chemistry 351 or consent of instructor.

431. BIOCHEMISTRY. The structural and dynamic properties of chemical substances associated with living organisms. Prerequisites: one year of general chemistry, one year of organic chemistry and Chemistry 351, or equivalents. Recommended: Biology 200.

451. PHYSICAL CHEMISTRY I. Thermodynamics review, states of matter, solutions, transport properties, chemical kinetics, statistical mechanics, and molecular properties. Lecture and laboratory. Prerequisites: Chemistry 371, Mathematics 202 and Physics 203, or consent of instructor.

452. PHYSICAL CHEMISTRY II. A continuation of Chemistry 451. Prerequisite: Chemistry 451.

499. MATERIALS AND METHODS IN THE TEACHING OF CHEMISTRY. May not be counted toward fulfilling requirements of courses in the major. Prerequisites: Education 330; senior or graduate standing; and admission to the teacher credential program.
521. ADVANCED ORGANIC CHEMISTRY. Advanced concepts of structure, synthesis, and properties of organic compounds and the theory and application of experimental techniques employed in their study. Lecture and laboratory. Prerequisite: Chemistry 452 or consent of instructor.

522. PHYSICAL ORGANIC CHEMISTRY. Selected topics in mechanistic organic chemistry with emphasis on recent developments from the current literature. No laboratory. Prerequisite: Chemistry 521 or consent of instructor.

524. CHEMISTRY OF NATURAL PRODUCTS. Selected topics in natural products chemistry. No laboratory. Prerequisite: Chemistry 521 or consent of instructor.

531. ADVANCED BIOCHEMISTRY. Advanced treatment of selected topics in biochemistry. No laboratory. Prerequisites: Chemistry 431 and 452, or consent of instructor.

541. ADVANCED ANALYTICAL CHEMISTRY. Principles and techniques of modern instrumental analysis including spectrophotometry, spectroscopy, chromatography, X-ray analysis, nuclear magnetic resonance, polarography, and potentiometry. Lecture and laboratory. Prerequisite: Chemistry 452 or consent of instructor.

551. ADVANCED PHYSICAL CHEMISTRY. An advanced treatment of selected topics in physical chemistry, e.g., statistical thermodynamics, quantum chemistry and reaction kinetics. No laboratory. Prerequisite: Chemistry 452 or consent of instructor.

555. INDEPENDENT STUDY. Research in analytical, biochemical, inorganic, organic or physical chemistry conducted under the direction of a faculty member. Prerequisite: consent of instructor.

561. CHEMICAL LITERATURE: HISTORY AND USE. Development of chemical knowledge from antiquity to present times with emphasis on the availability, scope and use of the chemical literature. No laboratory. Prerequisite: Chemistry 452 or consent of instructor.

571. ADVANCED INORGANIC CHEMISTRY. Current developments in inorganic chemistry, including coordination chemistry, nonmetals and metalloids. Lecture and laboratory. Prerequisite: Chemistry 452 or consent of instructor.
DRAMA

Requirements for the major: Ten upper-division courses including 330 and 340; 440 or 441; and three courses numbered 450 or above.

 Majors in their senior year will be required to develop an independent theatre project in consultation with the department.

Requirements for a minor in Drama: Six upper-division courses including 330 and 340; 440 or 441; and two courses numbered 450 or above.

220. VOICE AND SPEECH. Basic principles of effective oral communication, emphasizing development of voice quality and speech clarity through discussion and oral interpretation.

230. STAGECRAFT. Theory and practice of stage production and design; including basic problems and techniques of costume construction, scenic construction and painting, elements of lighting.

302. ANALYSIS OF DRAMA. The literary experience through study of structure and theme in selected plays.

320. THEATRE PRACTICUM. Two units credit. 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. May not be counted toward filling requirement of courses in the major. No more than ten units for Theatre Practicum and Music Performance may be used to satisfy graduation requirements.

330. DESIGN. A 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: Drama 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: Drama 340 or consent of instructor.

440. ANTI-THEATRE. A consideration of structured and unstructured theatre using such techniques as improvisation, reader's theater, happenings, guerrilla theatre and multi-media. Includes preparation and presentation of original scripts.

441. DIRECTING. Development of the theory and practice of play directing. Student director gains experience by participation in directorial exercises. Prerequisite: Drama 340 or consent of instructor.
Drama

450. CLASSICAL DRAMA. Development of comedy and tragedy in Greece and Rome.

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.

456. MODERN DRAMA II. European, British and American anti-realism, including various avant-garde movements. Emphasizes such playwrights as Brecht, Pinter, Wilder and Genet.

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.

476. SHAKESPEARE II. Tragedies and romances.

481. CREATIVE DRAMATICS. Experience with improvisational dramatic techniques designed to develop the imaginations of elementary school children and to increase creative results of classroom instruction.

499. METHODS AND MATERIALS IN THE TEACHING OF DRAMA. May not be counted toward fulfilling requirements of courses in the 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.

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. Research and analysis culminating in direction or design of a play for public performance.
ECONOMICS

Requirements for the major: ten courses in Economics, including Economics 100, 102, 300, 302, and at least six other upper-division courses. With the approval of the departmental advisor, up to two courses in related fields may be counted toward the upper-division course requirement in Economics. Mathematics 150 or Social Sciences 210 is also required. G.S. 131 is highly recommended.

Requirements for a minor in Economics: Economics 100, 102, 300, 302, plus two upper-division Economics courses.

Economics 100 or 102 or consent of instructor is a prerequisite for upper-division courses.

100. PRINCIPLES OF ECONOMICS I. Introduction to the theory of national income determination, employment and general price levels, international economic issues and growth.

102. PRINCIPLES OF ECONOMICS II. Introduction to price theory; resource allocation and the distribution of income; monopoly and imperfect competition.

300. NATIONAL INCOME THEORY. Intermediate macroeconomic theory; analysis of the problems of measurement and determination of national income, employment and general price level.

302. PRICE THEORY. Analysis of the role of prices in the allocation of resources under various market structures.

350. ECONOMICS OF POCKET UNDERDEVELOPMENT: THE GHETTO. Emphasizes the various factors retarding economic progress in ghetto areas and the methods by which necessary changes can be effected. Case studies will be utilized.

410. MONEY AND BANKING. The development and operation of the central bank and monetary institutions of the United States; problems of achieving full employment and price stability through monetary control.

420. COMPARATIVE ECONOMIC SYSTEMS. Theories and forms of organization of the major contemporary economic systems.

430. INTERNATIONAL ECONOMICS. The theory of international specialization and exchange; contemporary international economic issues; balance of payments, exchange rates, common markets, tariffs and commodity agreements.

440. PUBLIC FINANCE. A study of fiscal theory and policy, theories and incidence of taxation and problems of national debt management.

450. ECONOMIC DEVELOPMENT. Economic problems of underdeveloped countries and the policies necessary to induce growth.
Economics

480. INTRODUCTION TO MATHEMATICAL ECONOMICS. Application of mathematics to economics; graphs, functions and calculus applied to income determination models, growth models and maximization models. Prerequisite: G.S. 131.

490. INTRODUCTION TO ECONOMETRICS. Applications of statistical methods to the verification of hypotheses generated by economic theory. Prerequisites: Mathematics 101a and Social Sciences 210 or Mathematics 150.

500. HISTORY OF ECONOMIC THOUGHT. The development of economic doctrines and analysis from ancient times to the present; emphasis on landmark economists and their thought from Adam Smith to John Maynard Keynes.
The Department of Education offers upper-division and graduate-level courses which lead to certification as a teacher in the public elementary and secondary schools of the state of California, or which assist in providing further education for teachers already in service. Teacher education is a primary function of the College; therefore, this program operates under policies acceptable to the Faculty Senate, a college-wide organization of faculty members.

Admission to the Teacher Education Program

Admission to the College as a student does not constitute admission to a teaching credential program. There are three steps in securing a credential: (1) admission to course work; (2) admission to student teaching; and (3) completion of the program.

Students seeking a teaching credential should apply for admission to the teacher education program during the first quarter of their junior year. Students transferring to the College after their junior year should make application during their first quarter in residence. Applications are completed at a special meeting held at the beginning of each quarter. (Dates and times are announced in advance in the schedule of classes.) Unless special permission has been received, no course in Education except Education 330, Psychological Foundations of Education, may be taken until a student has been admitted to the teacher education program.

Admission is based upon the following criteria:

a. Satisfactory scores on the American College Test.

b. Satisfactory grade-point average. A candidate is expected to have earned at least a 2.0 (C) grade-point average in his college work, and at least a 2.5 (C+) in his major field. If the candidate's grade-point average is below 2.5, he must be recommended for admission by his major department on this campus.

c. All applicants for a secondary teaching credential who did not receive their degree from this institution must take the Graduate Record Examination in their major field. Acceptable standards on the examination are determined by the appropriate academic departments.

d. Satisfactory completion of special tests, as required. (Information concerning tests will be distributed each quarter.)
Education

e. Satisfactory completion of a medical examination or health clearance, to meet the health standards required of credentialed teachers.

f. Completion of interviews with representatives of the Admissions Committee in the Department of Education. The following characteristics, established by the Board of Trustees, are evaluated: intelligence, scholarship, professional aptitude, personality and character, speech and language usage, and many-sided interests.

After an interval of seven years, courses in Education are subject to re-evaluation. All course work taken at another college must be approved by an advisor in the Department of Education.

Students' eligibility for teaching will be reevaluated periodically. In order to be eligible for student teaching, students must have been admitted to the credential program and, in addition, must have maintained a minimum of a 2.5 grade-point average in all professional education courses.

It is necessary for students to make application for student teaching in advance. Deadlines for these applications are as follows: for winter term 1973, October 27, 1972; for spring term 1973, January 26, 1973; for fall term 1973, April 20, 1973.

Teaching Credentials

The College is approved by the California State Board of Education to offer course work leading to the elementary and secondary teaching credential.

General requirements:

1. Four years, or the equivalent, of college or university education with a baccalaureate or higher degree from an approved institution.

2. A fifth year of college or university postgraduate course work taken at the upper-division or graduate level. It is possible to postpone the fifth year and complete it within the first seven years of teaching. (Further details are available from the Department of Education.)

3. General Studies requirements are the same as for all students. For information regarding requirements for the major, please contact the major department or the Department of Education.

4. For description of current requirements in professional education, please contact the Department of Education.

In addition, the College offers course work leading to the specialized credential in early childhood education. During the 1972-73 school year, the first course work will also be offered toward the pupil personnel services and administrative services credentials.

Students enrolled in a credential program prior to July 1, 1972 may complete the requirements as described in the 1971-72 catalog.
Master's Degree Program

A master's degree program in education, with elementary education specialization, is scheduled to begin in the fall of 1972. Details on admission to the program and requirements for the degree are available from the Department of Education. Applications for admission to the college must be submitted to the Office of Admissions and Records.

For further information, interested persons may write for the Graduate Announcement.

330. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION. A study of learning, motivation, evaluation, and human growth and development as applied to teaching.

331. GROWTH AND DEVELOPMENT OF THE YOUNG CHILD. Developmental characteristics of the young child, with special emphasis on family, child, pre-school and school interaction. Prerequisite: admission to the credential program.

340. ELEMENTARY CURRICULUM AND METHODS I. Introductory course in elementary curriculum and basic teaching techniques in social science and science. Lectures, laboratory and field work. Prerequisites: admission to the teacher credential program and Education 330.

341. ELEMENTARY CURRICULUM AND METHODS II. Introductory course in elementary curriculum and basic teaching techniques in reading and language skills. Lectures, laboratory and field work. Prerequisites: admission to the teacher credential program and Education 330.

342. CURRICULUM AND METHODS FOR PRE-SCHOOL EDUCATION. Principles, methods and materials of instruction in early childhood education. Includes instruction in the use of audio-visual equipment. Field work required. Prerequisite: admission to the credential program.

343. CURRICULUM AND METHODS FOR PRIMARY EDUCATION. Continuation of Education 342, but includes emphasis on the teaching of reading including the phonetics approach. Prerequisite: admission to the credential program.

350. STUDENT TEACHING I.

351. STUDENT TEACHING II. Full-time teaching in the public schools. Ed. 350 and 351 must be taken together, and concurrently with Ed. 352 or 353.

352. SEMINAR IN ELEMENTARY EDUCATION. Must be taken concurrently with elementary student teaching.

353. SEMINAR IN SECONDARY EDUCATION. Must be taken concurrently with secondary student teaching.

356. STUDENT TEACHING: PRE-SCHOOL. Observation, student teaching and scheduled seminars. Special permission required.

360. INTERNSHIP I. Supervised intern teaching. Includes a two-hour seminar each week.

361. INTERNSHIP II.

362. INTERNSHIP III.
Education

440. SECONDARY SCHOOL CURRICULUM AND INSTRUCTION. Analysis of curriculum and instructional procedures in the secondary school. Prerequisites: Education 330 and admission to the teacher credential program. May be taken concurrently with appropriate 499.

495. SOCIOLOGICAL FOUNDATIONS OF EDUCATION. American cultural values and their influence on education; role of the school in renewal with special attention to contemporary disadvantaged groups; social class structure.

500. APPLIED LEARNING: PROGRAMMED INSTRUCTION. Theory and practice of programmed instruction.

530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN. Physical, intellectual, social and emotional deviations among children and youth, with implications among exceptional children.

531. COUNSELING AND GUIDANCE OF EXCEPTIONAL CHILDREN. Studies of counseling techniques as they apply to exceptional children.

532. TEACHING THE EDUCATIONALLY 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.

533. TEACHING THE CULTURALLY DIFFERENT: THE MEXICAN-AMERICAN. The Mexican-American's quest for equal educational opportunities, the need for Mexican-American culture and contributions in the school curriculum, methods and techniques for instruction of children, youth and adults in the regular school subjects and in bilingual bicultural education.

534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN. The Black American's quest for equal educational opportunities, the need for Black culture and contributions in the school curriculum, methods and techniques for instruction of children, youth and adults in the regular school subjects. Cultural awareness to help teachers develop ways of motivating and relating to the Black students.

540. ELEMENTARY SCHOOL CURRICULUM. History, organization and operation of the elementary school; curriculum trends; newer practices in elementary education.

560. LANGUAGE DEVELOPMENT AND COMMUNICATION DISORDERS. Children's language development, communication disturbances, reasons for disorders and possible treatments.

590. SEMINAR IN EDUCATION. An intensive study of topics and problems in secondary education, such as reading and team teaching. May be repeated for credit with consent of instructor. Prerequisite: graduate standing or consent of instructor.

599. SECONDARY SCHOOL CURRICULUM. Study of the development of the American secondary school with emphasis on current and emerging patterns of organization and curriculum.

610. RESEARCH METHODOLOGY IN EDUCATION. Principles of research design, methods of data collection and analysis. Prerequisite: Social Sciences 210, or Mathematics 150, or equivalent.

630. RESEARCH IN TEACHING AND LEARNING. A survey of current research in teaching and learning. Prerequisite: Education 610.
Education

635. SEMINAR IN READING. Review of research, curriculum issues and instructional procedures. For experienced teachers only.

641. MEDIA AND STRATEGIES IN TEACHING. An assessment of media used in instruction with emphasis on teaching strategies and principles of learning. **Prerequisite:** graduate standing or consent of instructor.

642. INSTRUCTIONAL TECHNOLOGY. Computer-assisted instruction, instructional television, self-instructional systems, programmed instruction and other aspects of instructional technology.

645. PROBLEMS IN ELEMENTARY CURRICULUM. Advanced study of some phase of the elementary school curriculum. May be repeated for credit, with consent of instructor. **Prerequisite:** graduate standing or consent of instructor.

695. FOUNDATIONS OF EDUCATION. History and theory of education within the setting of American society.
ENGLISH

Requirements for the major: a minimum of 10 courses in English, including two courses from 301, 302 or 303; and at least six other upper-division English courses. Two courses from 110, 111, 120, 121, or from upper-division literature courses offered by a department other than English may be included among the 10 required courses.

Completion of a comprehensive examination with a satisfactory score is also a requirement for graduation. The examination is offered each term and may be repeated until a passing score is attained.

The major also requires four full-term courses in a foreign language, or equivalent proficiency; or three full-term courses in a foreign language, or equivalent proficiency, and one course in literature in translation, in the same language.

Students majoring in English who also wish to pursue a multiple subject major (diversified major) for elementary school teaching should consult with the department chairman.

Requirements for a minor in English: six courses, including G.S. 170; a course in the study of language such as G.S. 202, English 500 or 505; a survey course in literature (English 110, 111, 120 or 121); an upper-division course in American Literature, such as English 432, 439 or 441; an upper-division course in Shakespeare, such as English 475 or 476; an upper-division course in literary analysis (English 301, 302 or 303).

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.

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.

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.
English

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

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

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. A study of major English romantics such as Blake, Wordsworth, Coleridge, Keats, Shelley and Byron.


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

432. AMERICAN LITERATURE II. The romantic movement in American literature.

436. AMERICAN LITERATURE III. The age of realism in American literature.

439. BLACK LITERATURE. The literature by and about the Black man. Emphasis on the contribution of Black writers to our cultural heritage.

444. MODERN POETRY I. British and American poetry from the early 1900's to World War II.

445. MODERN POETRY II. British and American poetry since World War II.

447. MODERN FICTION I. British and American fiction from the early 1900's to World War II.

448. MODERN FICTION II. British and American fiction since World War II.

450. CLASSICAL DRAMA. Development of comedy and tragedy in Greece and Rome.

455. MODERN DRAMA I. European, English and American Realism.

456. MODERN DRAMA II. European, English and American Anti-realism.

460. DEVELOPMENT OF THE NOVEL I. The eighteenth century novel in historical perspective, with emphasis on close reading of selected English novels.

462. DEVELOPMENT OF THE NOVEL II. The nineteenth century novel in historical perspective, with emphasis on close reading of selected English novels.

475. SHAKESPEARE I. The comedies and history plays.

476. SHAKESPEARE II. The tragedies and romances.
499. METHODS AND MATERIALS IN THE TEACHING OF ENGLISH. May not be counted toward fulfilling requirement of courses in the 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.

505. HISTORY OF THE ENGLISH LANGUAGE. The development of the English language from the beginning to the present.

512. ADVANCED COMPOSITION. A course in advanced expository writing.

514. CREATIVE WRITING. A course in which the student writes fiction and/or poetry and interprets literature in the light of that experience. May be repeated for credit with consent of the instructor but may count only once toward fulfilling requirements of courses in the major. Prerequisite: consent of instructor.

540. STUDIES IN LITERARY FIGURES AND GENRES. Intensive study in the works of a particular writer or in a genre. May be repeated for credit.

555. SPECIAL STUDIES IN LITERATURE. Independent study of selected literary figures or study in a special area of literary theory or history. Requires prior approval of department chairman and consent of instructor.

570. SEMINAR IN ENGLISH LITERATURE. May be repeated for credit with consent of instructor.

580. SEMINAR IN AMERICAN LITERATURE. May be repeated for credit with consent of instructor.
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. 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 210 or equivalent; Sociology 300, 305, 310, 312; four courses in either Mexican-American Studies or Black Studies, and two additional sociology courses which fulfill requirements for the major.

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

ANTHROPOLOGY 351. INDIANS OF NORTH AMERICA. Prehistory, history, culture, social structure and present situation of the Indians north of Mexico.

ART 325. STUDIES IN THE ARTS OF MEXICO AND THE MEXICAN-AMERICAN. Topics in the painting, architecture, sculpture and pottery of Mexico from pre-Columbian times to the present day.

ECONOMICS 350. ECONOMICS OF POCKET UNDERDEVELOPMENT: THE GHETTO. Factors relating to economic underdevelopment in ghetto areas and the methods by which necessary changes can be effected.

EDUCATION 533. TEACHING THE CULTURALLY DIFFERENT: THE MEXICAN-AMERICAN. The Mexican-American's quest for equal educational opportunities, the need for Mexican-American culture and contributions in the school curriculum, methods and techniques for instruction of children, youth and adults in the traditional school subjects and in bilingual, bicultural education.

EDUCATION 534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN. The Black American's quest for equal educational opportunities, the need for Black culture and contributions in the school curriculum, methods and techniques for instruction of children, youth and adults in the traditional school subjects. Cultural awareness to help teachers develop ways of motivating and relating to Black students.

ENGLISH 439. BLACK LITERATURE. The literature by and about the Black man. Emphasis on the contribution of Black writers to the American cultural heritage.

HISTORY 331. BLACK HISTORY I. The origin of sub-Saharan cultures and the development of African civilizations through the 18th century. Special emphasis is placed on West Africa and the region's relationship to Black people of North America.
HISTORY 332. BLACK HISTORY II. History of the Black people in America to World War I, including the experience of slavery, contribution of Blacks to American society and the effects of the attitudes and policies of the majority.

HISTORY 333. BLACK HISTORY III. The Black people in America since World War I, with an emphasis on the changing nature of the Black community, the Civil Rights struggle and the rise of Black nationalism.

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

HISTORY 391. MEXICAN-AMERICAN HISTORY. The Mexican-American in the United States from the Colonial period to the present, with special emphasis on the Southwest.

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

HISTORY 596. SEMINAR IN BLACK HISTORY. Study of some phase of Black history in America. May be repeated for credit, with consent of instructor.

HUMANITIES 501. SEMINAR IN MEXICAN-AMERICAN STUDIES. Study of some phase of Mexican-American studies in the Humanities. Prerequisites: Advanced standing and consent of instructor.

MUSIC 350. MUSIC OF OTHER CULTURES. Emphasis on the music of India, with excursions into the music of Japan, Indonesia and Africa. Visiting faculty and musicians, when available. May be repeated for credit. Non-majors are encouraged to enroll.

MUSIC 351. STUDIES IN THE MUSIC OF MEXICO AND THE MEXICAN-AMERICAN. The musical cultural heritage of Mexico and its relation to the Mexican-American community.

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

POLITICAL SCIENCE 351. THE MEXICAN-AMERICAN AND POLITICS. Analysis of the political factors affecting the contemporary Mexican-American community; involvement, organization and role of the individual in the political process.

PSYCHOLOGY 515. WHITE NORMALITY/BLACK DEVIANCE. Psychological and social-psychological analysis of Black deviance from behavior patterns specified as white normality.

PSYCHOLOGY 516. BLACK RAGE. Psychological make-up of the Black man in America. Special attention is given psychological effect of repressing anger.

PSYCHOLOGY 517. DEVELOPMENT OF THE BLACK MAN—HOLISTIC APPROACH. Overall view of psychological, social and cultural forces affecting the development of the Black man. Course focuses on the totality of the Black experience.

SOCIAL SCIENCES 220. INTRODUCTION TO MEXICAN-AMERICAN STUDIES. Introductory study of the life of the Mexican-American: his culture, history, socio-economics, politics, education, social stratification and family life.

SOCIAL SCIENCES 250. INTRODUCTION TO BLACK STUDIES. The historical pilgrimage of the Black man from Africa to America, the contemporary struggle of the Black man in America, the future of the Black man in America.
Ethnic Studies

SOCIAL SCIENCES 415. RESEARCH METHODS IN BLACK STUDIES. The philosophy, methods and materials necessary for producing a scholarly paper in Black Studies. Formal presentation of a research paper in the student's major field.

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

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

SOCIOLOGY 342. THE MEXICAN-AMERICAN 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.

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

SOCIOLOGY 440. SOCIAL STRATIFICATION. Class, caste and other systems of social stratification with particular reference to the United States.

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

SOCIOLOGY 442. MEXICAN-AMERICAN SOCIAL STRATIFICATION. Variables affecting the social status of the Mexican-American in society, Mexican-American social mobility, social class differences in Mexican-American communities.

SPANISH 117. SPANISH FOR NATIVE SPEAKERS. Elementary Spanish I. Grammar, readings, conversation.

SPANISH 118. SPANISH FOR NATIVE SPEAKERS. Elementary Spanish II. Grammar, readings, writing. Prerequisite: Spanish 117 or equivalent.

SPANISH 119. SPANISH FOR NATIVE SPEAKERS. Intermediate Spanish I. Grammar, readings, composition, communication skills. Prerequisite: Spanish 118 or equivalent.

SPANISH 120. SPANISH FOR NATIVE SPEAKERS. Intermediate Spanish II. Orthography, readings, language structure and communication skills. Prerequisite: Spanish 119 or equivalent.

SPANISH 440. MEXICAN LITERATURE. A study of the development of Mexican literature with emphasis on the Mexican novel. Recommended for non-majors. Prerequisite: Spanish 104 or equivalent or consent of instructor.

SPANISH 441. MEXICAN LITERATURE IN TRANSLATION. Critical examination of selected works of Mexican literature to the present day. Emphasis on the novel, drama, poetry and the essay.
FOREIGN LANGUAGES AND LITERATURES

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.

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

French

Requirements for the major: thirteen courses in French or their equivalent, including 301, 302 and 310. One course in foreign literature in translation will be accepted toward the major.

Requirements for a minor in French include the following courses: French 101, 102, 103, 104, 301, and one additional course at the 300 level.

101. ELEMENTARY FRENCH I. Pronunciation, grammar, reading, and conversation.

102. ELEMENTARY FRENCH II. Continuation of French 101.

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

104. INTERMEDIATE FRENCH II. Continuation of French 103.

101, 102, 103. INTENSIVE STUDY OF FRENCH. An intensive one-quarter course in French covering the material normally presented in three courses. Course carries 15 units of credit. Prerequisite: consent of instructor.

102, 103. INTENSIVE STUDY OF FRENCH. A one-quarter course covering the material normally presented in two courses. Course carries 10 units of credit and is recommended to students who do not wish to delay the sequence in French language study. Prerequisite: French 101 or equivalent.

All upper-division courses with the exception of those in translation are conducted in French.

301. ADVANCED FRENCH I. The study of French phonology, with emphasis on improvement of the students' pronunciation. Prerequisite: French 104 or equivalent.

302. ADVANCED FRENCH II. The study of the structure of the French language, with emphasis on improvement of the students' ability to write French. Prerequisite: French 104 or equivalent.
Foreign Languages

303. LITERATURE OF THE MIDDLE AGES AND THE SIXTEENTH CENTURY. Prerequisite: French 104 or equivalent.

304. LITERATURE OF THE SEVENTEENTH CENTURY. Prerequisite: French 104 or equivalent.

305. LITERATURE OF THE EIGHTEENTH CENTURY. Prerequisite: French 104 or equivalent.

310. INTRODUCTION TO LITERATURE AND CULTURE. Introduction to literary analysis and to the cultural context of French literature. Recommended as preparation for courses in French literature. Prerequisite: 104 or equivalent.

401. THE FRENCH NOVEL IN THE NINETEENTH CENTURY. Prerequisite: one 300 level French course or equivalent.

402. FRENCH POETRY OF THE NINETEENTH AND TWENTIETH CENTURIES. Prerequisite: one 300 level French course or equivalent.

403. THE FRENCH NOVEL IN THE TWENTIETH CENTURY. Prerequisite: one 300 level French course or equivalent.

404. THE FRENCH THEATRE IN THE TWENTIETH CENTURY. Prerequisite: one 300 level French course or equivalent.

420. SPECIAL TOPICS IN FRENCH LITERATURE. The study of such topics as the role of nature in French literature. May be repeated for credit. Prerequisite: one 300-level course in French literature or equivalent.

510. SEMINAR IN FRENCH LITERATURE.

530. STUDIES IN LITERARY FIGURES AND GENRES. The study of individual writers and genres such as Proust, Molière and the new novel. May be repeated for credit. Prerequisite: one 400-level French course or consent of instructor.

540. STUDIES IN CULTURE AND CIVILIZATION. The study of aspects of French culture and civilization with emphasis upon major factors shaping the intellectual thought of a period. Prerequisite: one 400-level French course or consent of instructor.

German

No major program in German will be offered in 1972–73. Courses listed below will be offered as electives in support of other major programs.

Requirements for a minor in German include the following courses: German 101, 102, 103, 104, 301, and one additional course at the 300 level.

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.
Foreign Languages

GERMAN 101, 102, 103. INTENSIVE STUDY OF GERMAN. An intensive one-quarter course in German covering the material normally presented in three courses. Course carries 15 units of credit. Prerequisite: consent of instructor.

102, 103. INTENSIVE STUDY OF GERMAN. A one-quarter course covering the materials normally presented in two courses. Course carries 10 units of credit. Prerequisite: German 101 or equivalent.

104. INTERMEDIATE GERMAN II. Continuation of German 103.

All upper-division courses with the exception of those in translation are conducted in German.

301. ADVANCED GERMAN I. Development of correct pronunciation and speaking style. Oral reports and class discussion based on reading and analysis of literary works. Prerequisite: German 104 or equivalent.

302. ADVANCED GERMAN II. Development of good writing and expressive vocabulary. Study and application of the characteristics of German critical writing. Written assignments based on reading of literary works. Prerequisite: German 104 or equivalent.

304. GERMAN CLASSICISM. Drama and poetry of Goethe and Schiller; study of selected critical works. Prerequisite: German 104 or equivalent.

308. READINGS IN GERMAN LITERATURE. The study of a selected literary genre or writer. Prerequisite: German 104 or equivalent.

Russian

No major or minor program in Russian will be offered in 1972–73. Courses listed below will be offered as electives in support of other major programs.

101. ELEMENTARY RUSSIAN I. Pronunciation, grammar, reading and conversation.

102. ELEMENTARY RUSSIAN II. Continuation of Russian 101.

103. INTERMEDIATE RUSSIAN I. Grammar, composition and conversation; discussion in Russian of literary texts. Prerequisite: Russian 102 or equivalent.

104. INTERMEDIATE RUSSIAN II. Continuation of Russian 103.

101, 102, 103. INTENSIVE STUDY OF RUSSIAN. An intensive one-quarter course in Russian covering the material normally presented in three courses. Course carries 15 units of credit. Prerequisite: consent of instructor.

102, 103. INTENSIVE STUDY OF RUSSIAN. A one-quarter course covering the materials normally presented in two courses. Course carries 10 units of credit. Prerequisite: Russian 101 or equivalent.
Foreign Languages

Requirements for the major: thirteen courses in Spanish or their equivalent, including Spanish 301 and 302, two survey courses in Spanish literature, one course in civilization, one survey course in Spanish-American literature and two courses at the 500 level. One course in foreign literature in translation will be accepted toward the major.

Spanish

Requirements for a minor in Spanish: Spanish 101, 102, 103, 104, 301, and 302.

101. ELEMENTARY SPANISH I. Pronunciation, grammar, reading, and conversation.

102. ELEMENTARY SPANISH II. Continuation of Spanish 101.

103. INTERMEDIATE SPANISH I. Grammar, composition, and conversation; discussion in Spanish of literary texts. Prerequisite: Spanish 102 or equivalent.

104. INTERMEDIATE SPANISH II. Continuation of Spanish 103.

101, 102, 103. INTENSIVE STUDY OF SPANISH. An intensive one-quarter course in Spanish covering the material normally presented in three courses. Course carries 15 units of credit. Prerequisite: consent of instructor.

102, 103. INTENSIVE STUDY OF SPANISH. A one-quarter course covering the materials normally presented in two courses. Course carries 10 units of credit. Prerequisite: Spanish 101 or equivalent.

117. SPANISH FOR NATIVE SPEAKERS. Elementary Spanish I. Grammar, readings, conversation.

118. SPANISH FOR NATIVE SPEAKERS. Elementary Spanish II. Grammar, readings, writing. Prerequisite: Spanish 117 or equivalent.

119. SPANISH FOR NATIVE SPEAKERS. Intermediate Spanish I. Grammar, readings, composition, communication skills. Prerequisite: Spanish 118 or equivalent.

120. SPANISH FOR NATIVE SPEAKERS. Intermediate Spanish II. Orthography, readings, language structure and communication skills. Prerequisite: Spanish 119 or equivalent.

All upper-division courses with the exception of those in translation are conducted in Spanish.

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 104 or equivalent.

302. ADVANCED GRAMMAR AND SYNTAX. Problems in grammar and syntax; practice in composition. Prerequisite: Spanish 104 or equivalent.

403. INTRODUCTION TO SPANISH LITERATURE I. Survey of main literary trends and writers from the twelfth century through the sixteenth century. Prerequisite: Spanish 104 or equivalent.
404. INTRODUCTION TO SPANISH LITERATURE II. Survey of literary genres and writers from Cervantes through the eighteenth century. Prerequisite: Spanish 104 or equivalent.

405. INTRODUCTION TO SPANISH LITERATURE III. Survey of Spanish literature and principal writers from the nineteenth century to the contemporary period. Prerequisite: Spanish 104 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 104 or equivalent.

411. SPANISH-AMERICAN LITERATURE II. Survey of Spanish-American literature from Modernismo to the present. Prerequisite: Spanish 104 or equivalent.

420. SPANISH CIVILIZATION. A study of the social, political and cultural developments in Spain. Prerequisite: Spanish 104 or equivalent.

430. CULTURE AND CIVILIZATION IN SPANISH AMERICA. A study of the social, cultural and historical evolution of Spanish America. Prerequisite: Spanish 104 or equivalent.

440. MEXICAN LITERATURE. A study of the development of Mexican literature with emphasis on the Mexican novel. Prerequisite: Spanish 104 or equivalent.

441. MEXICAN LITERATURE IN TRANSLATION. Critical examination of selected works of Mexican literature to the present day. Emphasis on the novel, drama, poetry and the essay.

501. SPANISH GOLDEN AGE DRAMA. Prerequisite: Two survey courses including Spanish 403 or equivalent.

502. SPANISH GOLDEN AGE PROSE AND POETRY. Prerequisite: Two survey courses including Spanish 403 or equivalent.

503. CERVANTES. Don Quijote. Prerequisite: Two survey courses including Spanish 403 or equivalent.

504. SPANISH NOVEL AND DRAMA OF THE NINETEENTH CENTURY. Prerequisite: Two survey courses including Spanish 403 or equivalent.

505. SPANISH LITERATURE: GENERATION OF 1898. Prerequisite: Two survey courses or equivalent.

506. MODERN SPANISH POETRY AND PROSE. Prerequisite: Two survey courses or equivalent.

510. SPANISH-AMERICAN NOVEL. Prerequisite: One Spanish-American survey course or equivalent.

511. SPANISH-AMERICAN DRAMA. Prerequisite: One Spanish-American survey course or equivalent.

512. SPANISH-AMERICAN POETRY. Prerequisite: One Spanish-American survey course or equivalent.
The Geography major involves a two-track system, Track A and Track B. Requirements for all majors include the following core: Geography 100, 101, 400, 450 and one area studies course.

Track A requires that students take, in addition to the core, five 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, five upper-division courses in Geography and/or related disciplines. These courses, selected in consultation with an advisor, must be from one of the following areas of study: urbanization, industrialization, modernization or area studies.

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

101. INTRODUCTION TO GEOGRAPHIC STUDIES: ENVIRONMENTAL SYSTEMS. Ecological analysis of man-natural environment milieu. Interrelationships involving climate, topography and the hydrosphere are stressed.

Geography 100 and 101 or their equivalents are prerequisites for all upper-division courses.

305. AREA STUDY: THE WESTERN WORLD, ANGLO AMERICA AND WESTERN EUROPE. Regional analysis of socio-economic development and environmental problems.

310. AREA STUDY: THE COMMUNIST BLOC: SOVIET UNION, EASTERN EUROPE, RED CHINA. Regional analysis of socio-economic development and environmental problems.

315. AREA STUDY: THE THIRD WORLD: LATIN AMERICA, AFRICA, SOUTH ASIA. 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.

400. SPATIAL DIMENSIONS OF HUMAN ORGANIZATION. The study of human organization as defined by location; spatial patterns, spatial integration and regions.

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

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.

430. GEOGRAPHY OF AGRICULTURAL ACTIVITY. Covers agricultural patterns, on a thematic basis, as keys to understanding human economic organization.

450. PRO-SEMINAR: READINGS IN GEOGRAPHY THEORY. Study of organizing paradigms which constitute geographic analysis.

555. INDEPENDENT STUDY.
Requirements for the major: ten courses in History, including History 200, 201, 300, 301 and 490, and at least five other upper-division courses in History. 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.

Requirements for a minor in History: History 200, 201, 300 and 301, plus two upper-division courses selected in consultation with an 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. Courses specified will be listed as an option contract to be filed with the Dean of Academic Planning.

200. UNITED STATES HISTORY TO 1877. A survey of the history of the United States from the colonial beginnings to 1877. This course meets the State Code requirement in United States History, Constitution and American ideals.

201. UNITED STATES HISTORY, 1877 TO THE PRESENT. A survey of the history of the United States from 1877 to the present.

300. EARLY MODERN EUROPE, THE RENAISSANCE TO 1815. The institutions, culture, and political development of Europe from the Renaissance to the end of the Napoleonic Wars.

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

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

304. THE AGE OF ABSOLUTISM AND ENLIGHTENMENT. A study of the period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement, and the growth of revolutionary ideas.

306. THE REVOLUTIONARY ERA, 1789–1815. The crisis in European civilization from the French Revolution to the Congress of Vienna.

308. EUROPE IN THE NINETEENTH CENTURY. A study of the political, social, and intellectual changes of the period 1815 to 1914.

310. TWENTIETH CENTURY EUROPE. A history of Europe from the outbreak of the first World War to the present.

320. ANCIENT HISTORY I. The history of the ancient world from the beginning of Egyptian civilization (c. 5000 B.C.) to the death of Alexander the Great (323 B.C.).
321. ANCIENT HISTORY II. The history of the ancient world from 323 B.C. to the conversion of Constantine to Christianity (312 A.D.).

331. BLACK HISTORY I. The origin of sub-Saharan cultures and the development of African civilizations through the 18th century; special emphasis is placed on West Africa and the region's relationship to Black people of North America.

332. BLACK HISTORY II. History of the Black people in America through World War I, including the experience of slavery, contributions of Blacks to American society and the effects of the attitudes and policies of the majority.

333. BLACK HISTORY III. The Black people in America since World War I, with an emphasis on the changing nature of the Black community, the Civil Rights struggle and the rise of Black Nationalism.

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

352. THE EARLY REPUBLIC. A history of the United States from the Confederation through the administration of Van Buren.

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

356. THE UNITED STATES, 1877-1917. A history of the transformation of the nation from the end of Reconstruction and entrance into World War I.

358. MODERN AMERICA. A study of the principal developments in American life since the first World War.

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

370. HISTORY OF CALIFORNIA. The political, economic, and social development of California from Spanish times to the present. This course meets the State Code requirement in California state and local government.

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

391. MEXICAN-AMERICAN HISTORY. The history of the Mexican-American in the United States from the Colonial period to the present, with special emphasis on the Southwest.

400. TUDOR AND STUART ENGLAND. A history of the principal political, economic, religious, and intellectual developments of England from 1485 to 1714.

404. MODERN BRITAIN. A history of Great Britain from the accession of the Hanoverian dynasty to the present.

410. RUSSIA TO 1855. Russian history from earliest times to 1855.

414. RUSSIA SINCE 1855. History of the last years of the empire and origins and development of the Soviet Union.

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

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


490. THE STUDY OF HISTORY. An 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.

510. FRANCE SINCE 1815. A history of French culture and politics from the fall of Napoleon to the present.

514. GERMANY SINCE 1815. A history of German culture and the emergence of the German state from the Congress of Vienna to the present.

540. CONSTITUTIONAL HISTORY OF THE UNITED STATES. A history of American constitutional development from English and European origins to the present day. Prerequisite: History 200 or 201, or Political Science 410 or consent of instructor.

552. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. Topics in the history of American civilization including the development of American society, thought and culture. May be repeated for credit with consent of instructor.

556. FOREIGN RELATIONS OF THE UNITED STATES. A survey of American foreign policy with special emphasis on America's rise to world power in the twentieth century.


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

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

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

596. SEMINAR IN BLACK HISTORY. Study of some phase of American history to be developed by the instructor with the class. May be repeated for credit, with consent of instructor.
HUMANITIES

Requirements for the major: Six upper-division courses in either Category “A” or “B”; four upper-division courses in the other. Category “A” includes Art, Music, Drama; Category “B” includes English, a foreign language (French, German, Russian or Spanish at present), Philosophy. Humanities 400 must be taken during the senior year.

The major requires four full-term courses in a foreign language or equivalent proficiency.

Students majoring in Humanities who also wish to pursue a multiple subject major (diversified major) for elementary school teaching should consult with the chairman of the Humanities Division. In most cases, students who have fulfilled the College General Studies requirements will need only a very few elective courses in order to qualify for this second major as well as the Humanities major.

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

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.

470. NATURE OF LANGUAGE. Nature and development of languages as a means of human communication and as a form of cognition.

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

498. STUDIES IN HUMANITIES. Two units of credit. Selected topics in general and interdisciplinary studies. Course open to seniors of any major who, after completion of their graduation requirement check, require one or two units toward graduation.

501. SEMINAR IN MEXICAN-AMERICAN STUDIES. Study of some phase of Mexican-American studies in the Humanities. Prerequisites: advanced standing and consent of instructor.
MATHEMATICS

Requirements for the major: ten courses in Mathematics including Mathematics 201, 202, 203, 311, 312, 331, 551 and three upper-division electives, not to include Mathematics 301 or 499, chosen in consultation with the advisor. Physics 202 and 203 are recommended for Mathematics majors.

The required core of the major program (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.

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 555 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 555 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.

Requirements for a minor in Mathematics: Mathematics 201, 202, 203, 311, 312, 331 and 551.

101. 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. A course in the basic principles of statistics with applications to the natural and behavioral sciences. Prerequisite: a year of high school advanced algebra or its equivalent.

201. CALCULUS I. 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: G.S. 131 with a grade of C or better or consent of the department chairman.

202. CALCULUS II. 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.
Mathematics

203. CALCULUS III. Sequences, infinite series and expansion of functions; the elements of ordinary differential equations including the general linear equation with constant coefficients; applications. Prerequisites: Mathematics 202 with a grade of C or better or consent of the department chairman.

301. MODERN ARITHMETIC. The study of various mathematical systems and their arithmetics. This course is designed for non-mathematics majors.

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

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.

331. TOPICS IN APPLIED MATHEMATICS I. The study of topics in mathematics applicable to the physical sciences. Prerequisites: Mathematics 331 and Physics 203 or consent of instructor.

444. PROBABILITY AND STATISTICS I. The mathematical theory of probability and statistics with application to the problems of sampling and decision making. Axiomatic development of probability; discrete random variables and their probability distributions with emphasis on the Bernoulli and Poisson distributions; discrete stochastic processes. Prerequisites: Mathematics 203 and either 311, 331, or consent of instructor.

445. PROBABILITY AND STATISTICS II. The mathematical theory of probability and statistics with application to the problems of sampling and decision making. Continuous random variables and their probability distributions; moment generating functions; the normal, t, chi-square, and F distributions applied to testing hypotheses. Prerequisites: Mathematics 444 and consent of instructor.

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

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.

555. INDEPENDENT STUDY. An independent study course for senior mathematics majors. Prerequisites: Mathematics 312, 331, 551 and 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 312 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.
MUSIC

Requirements for the major: twelve full-term courses in Music, including 111, 112, 113, 314, 315; the remaining seven courses (35 units) must include a minimum of three units of applied music or musicianship at the upper-division level. Proficiency in piano is required and may be demonstrated by satisfactory completion of a placement exam or Music 222. A maximum of 15 units in applied music or applied musicianship may be included in the total requirements.

Students majoring in music are required to complete successfully six repertory listening examinations—a different one given at the end of each quarter—and are encouraged to participate in the department’s informal tutorial reading program.

Requirements for a minor: Music 100, G.S. 180, at least one course in World Music (Music 350, 351, 360). Two other full-term music courses, Music 220, and the successful completion of three repertory listening examinations.

THEORY

The integrated music theory courses are the core of a program which seeks to develop in the student the ability to cope with any aural experience. The courses deal with the materials of music and how they combine to create musical structures, analysis of representative works and continued development of the musical ear and keyboard facility. Designed primarily for the music major and the liberal arts student with a serious interest in music. Prerequisite: Music 100 or equivalent.

100. BASIC MUSICIANSHIP. Rudiments of music: pitch, rhythm, scales, melody; sight-singing, dictation and introductory keyboard activity. Course provides necessary background for enrollment in theory program; is a fundamental course for the general student. Credits may not be counted toward fulfilling requirements of the major.

111. THEORY I. Basic materials of music and how they combine to create musical structures, analysis of representative works and an attempt to develop both the musical ear and some keyboard facility.

112. THEORY II. Continuation of Theory I.

113. THEORY III. Continuation of Theory II.

314. THEORY IV. Melody, harmony, and texture as they relate to musical structures; extension of tonality and its eventual evolution into 20th century practice; analysis of representative compositions; continuation of ear and keyboard training.

315. THEORY V. Continuation of Theory IV.

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. Courses are not sequential.

320. TWENTIETH CENTURY MUSIC.
321. MUSIC IN THE CLASSIC ERA.
322. MEDIEVAL AND RENAISSANCE MUSIC.
323. NINETEENTH CENTURY MUSIC.
324. BAROQUE MUSIC.
325. OPERA.

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

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 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. MUSIC OF MEXICO AND THE MEXICAN-AMERICAN.
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.

417. SEMINAR IN COMPOSITION. May be repeated for credit. Prerequisite: consent of instructor.
Music

PERFORMANCE PRACTICE
Role of the performer in various periods; study of stylistic procedures, score
interpretation, editing for performance; studies in ornamentation and improvisa-
tion. Prerequisite: consent of instructor.

450. PERFORMANCE PRACTICE.

INDEPENDENT STUDY
527. SPECIAL PROJECTS. Intensive, individual projects in orchestration, conduct-
ing and score reading, theory and history. Prerequisite: consent of instructor.

MUSIC EDUCATION
300. APPLIED MUSICIANSHIP. For prospective elementary and secondary school
teachers. Two units credit in each of the following areas: (a) strings, (b) brass,
(c) woodwinds, (d) percussion, (e) voice and choral techniques, (f) guitar
and folk music, (g) music literature for children, (h) music theatre production
and literature, (i) conducting.

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

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 fifteen units may be applied to the total
requirement. 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.

220. CLASS PIANO I. One unit credit. A study of 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. Prerequisites: approval of department chairman and
consent of instructor.

221. CLASS PIANO II. One unit credit. A study of 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.

222. CLASS PIANO III. One unit credit. A study of 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.

118
240. BEGINNING AND INTERMEDIATE VOICE.

241. BEGINNING AND INTERMEDIATE KEYBOARD INSTRUMENT.

242. BEGINNING AND INTERMEDIATE STRING INSTRUMENT.

243. BEGINNING AND INTERMEDIATE WIND INSTRUMENT.

244. BEGINNING AND INTERMEDIATE BRASS INSTRUMENT.

245. BEGINNING AND INTERMEDIATE PERCUSSION INSTRUMENT.

440. ADVANCED VOICE. Prerequisite: placement audition or consent of instructor.

441. ADVANCED KEYBOARD INSTRUMENT. Prerequisite: placement audition or consent of instructor.

442. ADVANCED STRING INSTRUMENT. Prerequisite: placement audition or consent of instructor.

443. ADVANCED WIND INSTRUMENT. Prerequisite: placement audition or consent of instructor.

444. ADVANCED BRASS INSTRUMENT. Prerequisite: placement audition or consent of instructor.

445. ADVANCED PERCUSSION INSTRUMENT. Prerequisite: placement audition or consent of instructor.

PERFORMANCE ORGANIZATION

One unit of credit. Participation in chamber orchestra, chamber ensembles, chamber singers, chorus or opera workshop. May be repeated for credit up to a total of ten units. Credits may not be counted toward fulfilling requirements of courses in the major. No more than ten units in Music Performance and Theatre Practicum may be used to satisfy graduation requirements. Prerequisite: consent of instructor.

310. PERFORMANCE ORGANIZATION.
NATURAL SCIENCES

Students interested in the natural sciences normally major in biology, chemistry, mathematics and physics. The College does not offer a general program in natural science. However, natural sciences courses of a more general nature are being developed. Some of these are offered through the General Studies program of the College; another is listed below:

140. DIGITAL COMPUTING IN THE NATURAL SCIENCES. An introduction to computer languages with emphasis on Fortran. Consideration will be given to basic operations and elements of a digital computer, mathematical notations, Boolean algebra, number representations, flow charts, logic and understanding of problems amenable to computer solutions. Prerequisite: Mathematics 101 or consent of instructor.
Requirements for the major: Philosophy 200 and a minimum of 10 upper-division courses in Philosophy. These consist of readings in the history of Philosophy, to be taken in sequence, Philosophy 300, 302, 304; five different systematic fields, Philosophy 312, 350, 360, 370, 390; two other courses, Philosophy 400 and 498. Two of these, 390 and 498, are reserved for senior year.

The major also requires a minimum of four full-term courses, or equivalent proficiency, in one foreign language, with attainment of demonstrable reading skill. French, German, Latin and Greek are preferable. Normally, a student should begin meeting this requirement in his first freshman term and complete it as a sophomore.

A comprehensive examination will be required in the next-to-last term of the senior year.

200. STUDIES IN ONE GREAT PROBLEM. Concentration on a single important philosophic problem, e.g., what is justice?, what is beauty?, how are power and wisdom connected?, is there a God? Radically different works will serve to foster discovery of the multi-faceted structure of the problem and some solutions offered for it. May be taken for credit more than once, if the problem selected is different each time.

The prerequisite for all upper-division courses is completion of a lower-division course in Philosophy, preferably G.S. 190.

300. READINGS IN THE HISTORY OF PHILOSOPHY I. Greek and Roman philosophy, Pre-Socratics to Marcus Aurelius and Plotinus.

302. READINGS IN THE HISTORY OF PHILOSOPHY II. Medieval philosophy, St. Augustine to Ockham.

304. READINGS IN THE HISTORY OF PHILOSOPHY III. Early modern philosophy, Descartes to 1900.

312. LOGIC. The structure, operations and theory of logic in Aristotle's *Organon* and contemporary mathematical logic.

315. PHILOSOPHY OF SCIENCE. A comparative study of diverse conceptions of the nature of science, its methods, assumptions and problems, and the inter-relations of sciences.

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

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

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.

390. METAPHYSICS. Inquiry into questions of first principles, including the problem of organizing arts, sciences and disciplines into one systematic whole. Relevant philosophic masterpieces help to pinpoint the issues.

400. STUDIES IN ONE GREAT PHILOSOPHER. Interrelates one philosopher’s diverse works, to reveal the overall structure of his distinctive position. May be taken for credit more than once, if the philosopher selected is different each time.

402. AMERICAN PHILOSOPHY. A study of several of the main contributions to philosophy produced in America, including the pragmatists Peirce, James, Dewey, and Mead.

406. EXISTENTIALISM. Attention is primarily focused on Heidegger, Jaspers, Sartre and Marcel, though Kierkegaard, Nietzsche, Buber, Camus and Merleau-Ponty are included.

408. MARX AND MARXIST PHILOSOPHERS. An investigation of Karl Marx’s philosophy, with systematic attention to the variations on it contributed by Engels, Lenin, Stalin, Trotsky and Mao Tse-Tung.

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

498. SEMINAR: PHILOSOPHIZING IN THE 20TH CENTURY. Participants will present short papers and defend them during cross-questioning by those present. Articles from professional journals of philosophy, as well as longer works, will serve to exhibit recent inquiry, debate, and scholarship.

520. PHILOSOPHY OF EDUCATION. An inquiry into some characteristic problems, through consideration of works by authors such as Plato, Rousseau, Newman and Dewey. This course meets California State Credential requirements.

580. PHILOSOPHICAL CONFRONTATIONS. An exploration of the systematic alternatives presented by two important philosophers, e.g., Plato and Aristotle, St. Augustine and St. Thomas Aquinas, Locke and Leibniz, Hume and Kant, Hegel and Marx. May be taken for credit more than once, if the pair selected is different each time.
PHYSICAL EDUCATION

Requirement for graduation: each student is required to complete three 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, handball, 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 weight training.

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 Education Department.

The College does not offer an undergraduate major in Physical Education. Students should consult the class schedule issued each term for specific information on Physical Education course offerings.

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

100. INTRODUCTION TO PHYSICAL EDUCATION. Instruction in a variety of sports activities.

110. INDIVIDUAL SPORTS. Activities in archery, bowling, badminton, fencing, golf, handball, squash, table tennis, and tennis.

111. BODY CONDITIONING. Circuit training, cross-country, track events, and weight training.

112. TRAMPOLINE & STUNTS. Basic instruction in trampoline tumbling and gymnastics.

113. COMBATIVES. Instruction in boxing, wrestling, fencing and karate.

120. TEAM SPORTS. Instruction and participation in basketball, field hockey, softball, touch football, soccer and volleyball.

130. SWIMMING AND DIVING. (Beg., Int., Adv.) Instruction at all levels, includes springboard diving.

131. LIFE SAVING. To meet the standards for Red Cross certification.

132. WATER SAFETY INSTRUCTION. To meet the standards for Red Cross certification for teaching all levels of swimming, life saving, and boating safety. Prerequisite: Current Senior Life Saving Certificate.

133. SKIN AND SCUBA DIVING. Instruction in the physiology, physics and principles of underwater swimming with and without underwater breathing apparatus. Instruction in use and care of equipment. Prerequisites: The passing of a basic swimming requirement and a doctor's physical examination.
Physical Education

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

140. **MODERN DANCE.** Instruction in modern, ballet and folk dance.

150. **SPORTS OFFICIATING.** Instruction in techniques for sports officials and referees and experience working in intramural sports program.

160. **OUTING SKILLS.** Instruction in basic outing skills including selection and care of a campsite, planning and preparation of meals and erecting of an adequate shelter.

170. **RECREATION LEADERSHIP.** Organization, supervision and administration of recreation programs and practical experience in recreational activity situations in which leadership skills can be developed.

300. **SCHOOL GAMES AND RHYTHMS.** Experiences in developing a physical education program for elementary school children.
Requirements for the major: eight courses in Physics: 202, 203, 301, 302, 303, 401, 420, and one of 402, 403 or 405. Mathematics 201, 202, and 203 are prerequisites for upper-division work required for a major in Physics. Mathematics 331, 401 and 402 are strongly recommended.

A comprehensive examination covering the major field of study will be required in the senior year.

Physics majors shall fulfill their General Studies physical science and mathematics requirements by selecting G.S. 122, G.S. 126 and G.S. 131.

Requirements for a minor in Physics: Physics 202 and 203, and four of the following courses: Physics 300, 301, 302, 303, 401, 402, 403, 405, 420. Mathematics 201, 202 and 203 are prerequisites for a minor in Physics.

102. BASIC CONCEPTS OF PHYSICS II. A continuation of G.S. 120 to complete a survey of the main areas of Physics. Lecture and laboratory. Prerequisite: G.S. 120 with a grade of C or better.

202. STATIC AND DYNAMIC ELECTRICITY. Lecture and laboratory. Prerequisites: G.S. 122 with a grade of C or better and Mathematics 201. Corequisite: Mathematics 202.

203. WAVES AND MODERN PHYSICS. Lecture and laboratory. Prerequisite: Physics 202 with a grade of C or better.

300. ELECTRONICS FOR SCIENTISTS. Electrical measurement techniques and basic electronics. Lecture and laboratory. Not open to physics majors. Prerequisite: consent of instructor.

301. ELECTRICITY. Circuit theory and vector analysis. Lecture and electronics laboratory. Prerequisites: Physics 202 with a grade of C or better and Mathematics 203.

302. RELATIVITY AND ELECTROSTATICS. Lecture and electronics laboratory. Prerequisites: Physics 203 and 301.

303. ELECTRODYNAMICS. Lecture and laboratory. Prerequisite: Physics 302.

401. QUANTUM PHYSICS I. Advanced topics in modern physics. Lecture and laboratory. Prerequisites: Physics 203 and Mathematics 203 each with a grade of C or better.

402. QUANTUM PHYSICS II. Quantum mechanics. Prerequisites: Physics 401 with a grade of C or better, Mathematics 331 and 401. Corequisite: Mathematics 402.

403. QUANTUM PHYSICS III. Statistical physics with applications. Lecture and laboratory. Prerequisite: Physics 401.

405. INTERMEDIATE CLASSICAL MECHANICS. Prerequisites: Physics 202 and Mathematics 203.
Physics

420. SEMINAR: TOPICS IN CONTEMPORARY PHYSICS. Prerequisites: Physics 302 and 401.

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

555. INDEPENDENT STUDY. Research in Physics conducted under the direction of a faculty member. Prerequisite: consent of instructor.
Requirements for the major: a minimum of ten courses in Political Science including Political Science 200, 202, and eight upper-division courses. With the approval of the departmental advisor, up to two courses in related fields may be counted toward the upper-division course requirement in Political Science.

The major also requires at least one course from each of the following fields: American government and politics (320, 326, 328, 330, 410, 411, 420, 430, 550 and 570); comparative politics (300, 304, 306 and 520); international relations (400, 500, 510 and 590); political behavior (440, 446 and 540); and political theory (310, 312 and 314). In addition, majors are strongly urged to take Social Sciences 210 or Mathematics 150.

Requirements for a minor in Political Science: six courses including Political Science 200 and 202, and at least four upper-division Political Science courses chosen in consultation with an advisor.

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.

202. AMERICAN GOVERNMENT. Political structure and processes of the American governmental system. This course will satisfy the State Code requirement in United States History, Constitution and American ideals and in California state and local government.

Prerequisites for upper-division courses are Political Science 200 and 202 or consent of the instructor.

300. WESTERN POLITICAL SYSTEMS. A study of major Western political systems.

304. COMMUNIST POLITICAL SYSTEMS. A study of Communist political systems and an examination of the relationships among such systems.

306. DEVELOPING POLITICAL SYSTEMS. Study of developing systems with an emphasis on newly independent nations.

310. GREEK, ROMAN AND MEDIEVAL POLITICAL THOUGHT. A study of the political ideas from the time of the Greeks to the rise of the sovereign state in the 16th century and the ideas of Thomas Hobbes.

312. ANALYSIS OF WESTERN POLITICAL THOUGHT. A study of the major political ideas from Hobbes to Marx, emphasizing the European theorists.

314. AMERICAN POLITICAL THOUGHT. A study of the development of political ideas from Marx to the present.

320. THE LEGISLATIVE PROCESS. A cross-cultural analysis of the law-making processes in the United States and other selected political systems.
Political Science

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.

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

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

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

410. AMERICAN CONSTITUTIONAL LAW. A study of the 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.

411. THE BILL OF RIGHTS. A study of the 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.

420. PUBLIC ADMINISTRATION. Public administrative processes in modern and developing nations.

430. THE MODERN POLITICAL EXECUTIVE. The office and institution of the modern political executive in the United States and other countries.

440. VOTING BEHAVIOR. Analysis of 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.

500. INTERNATIONAL LAW. A study of the historical basis and present trends in the development of international law.


520. THE SOVIET SYSTEM. A study of Communist political theory in its Russian setting and of the development, operation, and structure of the contemporary Soviet system.

540. POLITICAL COMMUNICATION. An examination of the channels of influence and political opinion formation within contemporary political systems.

550. COMMUNITY POLITICS. Comparative analysis of local politics with emphasis on community structures, processes, and policies.
Political Science

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

590. SEMINAR IN INTERNATIONAL RELATIONS. Intensive study of some phase of foreign policy-making or international relations to be developed by the instructor with his class. May be repeated for credit, with the consent of the instructor.

592. SEMINAR IN GOVERNMENT. An intensive study of some phase of government to be developed by the instructor with his class. May be repeated for credit, with the consent of the instructor.
PSYCHOLOGY

Requirements for the major: Psychology 100; a minimum of eight upper-division courses in Psychology, including Psychology 302, 310, 330 and 440. Also required is either Mathematics 150 or Social Sciences 210.

A comprehensive examination will be offered to those students who wish honors in the major.

100. INTRODUCTION TO PSYCHOLOGY. A survey of the field of modern psychology.

Psychology 100 or consent of instructor is a prerequisite for all upper-division psychology courses, except 515, 516, 517.

302. ADVANCED GENERAL PSYCHOLOGY. The scientific study of behavior emphasizing the systematic development of principles.

310. INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY. Experimental analysis of behavior. Lecture and laboratory. Prerequisites: Psychology 302 and Mathematics 150 or Social Sciences 210.

320. PERSONALITY. Survey of the major theories of personality.

330. HISTORY OF PSYCHOLOGY. Development of psychological concepts, methods, and theories from their origins to the present. Prerequisite: Psychology 302.

400. BEHAVIORAL TECHNOLOGY. Application of principles and techniques derived from experimental analysis to problems of behavior management in education, industry, and the clinic. Prerequisite: Psychology 302.

402. FRONTIERS OF PSYCHOLOGICAL RESEARCH. Problems and trends in frontier areas of psychological research: cognitive and unconscious determinants, extrasensory perception, clinical and experimental hypnosis, intrinsic motivation. Prerequisite: Psychology 302 or consent of instructor.

410. DEVELOPMENTAL PSYCHOLOGY. Review of psychological development and behavioral changes occurring with age.

420. ABNORMAL PSYCHOLOGY. An introduction to psychopathology with consideration of the major conceptions of the nature of behavioral disorders. Prerequisite: Psychology 320 or equivalent.

430. INDUSTRIAL PSYCHOLOGY. A survey of the practices of modern industrial and personnel psychology. Includes selection, placement, training, motivation, job analysis, evaluation and human factors.

440. TESTS AND MEASUREMENTS. A study of the administration of psychological tests and scales, and the interpretation and use of the data which they yield. Prerequisite: Mathematics 150 or Social Sciences 210.
Psychology

450. EXPERIMENTAL PSYCHOLOGY: LEARNING. Selected research areas in the psychology of learning. Includes both literature review and experimental analysis. Lecture and laboratory. Prerequisites: Psychology 302, 310 and Mathematics 150 or Social Sciences 210.

460. EXPERIMENTAL PSYCHOLOGY: PERCEPTION. Selected research areas in the fields of sensory and perceptual processes. Includes literature review and experimental analysis. Lecture and laboratory. Prerequisites: Psychology 302, 310 and Mathematics 150 or Social Sciences 210.

470. EXPERIMENTAL PSYCHOLOGY: MOTIVATION. Selected research in the area of motivation, both primary and acquired. Literature review and experimental analysis. Lecture and laboratory. Prerequisites: Psychology 302, 310 and Mathematics 150 or Social Sciences 210.

475. 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. Prerequisite: Psychology 302, 310 or Sociology 305 and Mathematics 150 or Social Sciences 210.

480. PHYSIOLOGICAL PSYCHOLOGY. Selected investigations of physiological correlates of behavior. Lecture and laboratory. Prerequisites: Psychology 302, 310 and Mathematics 150 or Social Sciences 210.

490. COUNSELING PSYCHOLOGY. Presentation of basic concepts, methods, and procedures pertaining to diagnostic and therapeutic activities of the counselor. Intended as pre-professional training only. Prerequisite: Psychology 420, 440.

495. CLINICAL BEHAVIOR THERAPY. Literature concerning research in the principles and practice of behavior therapy. Prerequisite: Psychology 420.

500. APPLIED LEARNING: PROGRAMMED INSTRUCTION. Theory and practice of programmed instruction.

510. PRACTICUM. Advanced study in counseling and testing based upon supervised work experience. Prerequisites: senior standing in Psychology and consent of instructor.

515. WHITE NORMALITY/BLACK DEVIANCE. Psychological and social-psychological analysis of Black deviance from behavior patterns specified as white normality.

516. BLACK RAGE. Psychological make-up of the Black man in America. Special attention is given psychological effect of repressing anger.

517. DEVELOPMENT OF THE BLACK MAN—HOLISTIC APPROACH. Overall view of psychological, social and cultural forces affecting the development of the Black man. Course focuses on the totality of the Black experience.

520. SEMINAR IN EXPERIMENTAL PSYCHOLOGY. Student-faculty participation in review and presentation of advanced research areas. May be repeated for credit with consent of instructor. Prerequisites: senior or graduate standing and consent of instructor.

530. SEMINAR IN APPLIED PSYCHOLOGY. Student-faculty participation in review and presentation of current areas in applied psychology. May be repeated for credit with consent of instructor. Prerequisites: senior or graduate standing and consent of instructor.
Psychology

540. INDIVIDUAL INTELLIGENCE TESTING. Theories of intelligence. Principles of test construction and interpretation of individual intelligence tests. Lectures and supervised practicum. Prerequisites: Psychology 100; Mathematics 150 or Social Sciences 210.

555. INDEPENDENT STUDY. Special topics involving literature and/or experimental effort. Prerequisite: consent of instructor.

570. EXPERIMENTAL DESIGN. Fundamental principles of quantitative design of experiments. Emphasis on comprehension and use of analysis of variance; includes an overview of factor analysis, multiple regression and scaling. Prerequisites: Social Sciences 210 and consent of instructor.
SOCIAL SCIENCES

Requirements for the major: A minimum of seven courses in one of the following fields, plus three courses each in two others: Anthropology, Economics, Geography, History, Political Science, Psychology and Sociology. Social Sciences 210 and/or 340 may be chosen as part of the requirements for the principal field of concentration. A minimum of seven courses must be taken at the upper-division level.

Upon enrolling as a Social Sciences major, the student will be assigned an advisor from the department of his concentration, at which time a program of study will be agreed upon by the student and his advisor. The program is filed in the student’s permanent folder in the Admissions Office but is subject to revision by mutual consent. Each department participating in this program has a list of its courses suitable for students choosing this curriculum.

210. STATISTICS FOR THE SOCIAL SCIENCES. An introduction to statistical methods as applied to the social and behavioral sciences. Includes both descriptive and inferential statistics.

220. INTRODUCTION TO MEXICAN-AMERICAN STUDIES. Introductory study of the life of the Mexican-American: his culture, history, socio-economics, politics, education, social stratification and family life.

250. INTRODUCTION TO BLACK STUDIES. An introduction to Black studies in a variety of contexts: the historic pilgrimage of the Black man from Africa to America, the contemporary struggle of the Black man in America, the future of the Black man in America.

340. COMPUTER APPLICATIONS IN THE SOCIAL SCIENCES. General introduction to computers and automatic data processing and survey of contemporary programming languages. Computer application in behavioral research and data processing equipment. Prerequisite: Social Sciences 210 or Math 150 or consent of instructor.

415. RESEARCH METHODS IN BLACK STUDIES. The philosophy, methods and materials necessary for producing a scholarly paper in Black studies. Presentation of a research paper in the student’s major field.

498. STUDIES IN SOCIAL SCIENCES. Two units of credit. Application of Social Science methods to crucial issues in society. Course open to seniors of any major who, after completion of their graduation requirement check, require one or two units toward graduation.

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

Requirements for the major: Social Sciences 210 or equivalent; Sociology 300, 305, 310, 312, and six additional Sociology courses. With the consent of the departmental advisor, two upper-division courses in related fields may be applied to course requirements for the major. Credit toward the major will be granted for up to two lower-division Sociology courses successfully completed elsewhere.

For those students interested in pursuing a career in social work, the department advises a second track in the Sociology major incorporating the following courses: Social Sciences 210 or equivalent; Sociology 300, 305, 310, 312, 434, 456, 484 and three additional Sociology courses. It is recommended that one of the three additional courses be Sociology 318.

Offered within the Sociology major is an optional program in Ethnic Studies, with emphasis in Black Studies or Mexican-American studies. The Ethnic Studies option requires Social Sciences 210 or equivalent; Sociology 300, 305, 310, 312; four courses in either Mexican-American Studies or Black Studies, and two additional Sociology courses which fulfill requirements for the major as listed above.

Requirements for the minor: Six courses in Sociology selected with the consent of a departmental advisor. Two 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 requirements: 3.5 grade-point average in all Sociology courses attempted, at least half of all work attempted in Sociology completed at this College, recommendation for departmental honors by the Sociology faculty.

300. MODERN SOCIOLOGY. Introduction to the data, theory and methodology of Sociology. Open to upper-division students only.

305. SOCIOLOGICAL RESEARCH AND ANALYSIS. Principles of research design, methods of data collection and analysis. Prerequisite: Mathematics 150 or Social Sciences 210.

310. HISTORY OF SOCIOLOGICAL THEORY.

312. CONTEMPORARY SOCIOLOGICAL THEORY. Analysis of 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.
Sociology

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


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

342. THE MEXICAN-AMERICAN 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.

350. CRIMINOLOGY. The causes of crime with emphasis on sociological factors.

351. CONTROL OF CRIME. Methods and policies for prevention and control of crime and the treatment of criminals, including consideration of the contributions of the police, the courts and the penal system.

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

354. DEVIAN T BEHAVIOR. Analysis of deviant modes of human adjustment to modern society; processes of personal-social interaction in development of individual and group deviation.

360. SOCIAL PSYCHOLOGY. Interpersonal relations and communication with special reference to development of self, role behavior, attitudes, values and social norms.

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. Social psychological bases of crowd behavior, publics, social movements; implications of various forms of collective behavior for the character of modern life.

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.

380. SOCIOLOGY OF RELIGION. Religion as a social institution in primitive and folk culture and in contemporary modern society.

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

420. POPULATION PROBLEMS. The social causes and consequences of population trends.

430. URBAN SOCIOLOGY. The 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.** Analysis of programs of action, operative and proposed, for the organization of the community and the solution of its problems.

436. **GROUP DYNAMICS.** An analysis of dynamic, structural and processual properties of small groups.

437. **COMPLEX ORGANIZATIONS.** Sociological analysis of formal organizations (industrial, governmental, welfare, military, medical, educational, correctional, etc.) as systems of social interaction. Includes such topics as formal vs. informal structures, authority, decision-making, organizational innovation and development, role conflicts, communications and morale.

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. **SOCIAL STRATIFICATION.** 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. **MEXICAN-AMERICAN 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.

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

482. **FIELDS OF SOCIAL WORK.** Components of the broad field of social work, includes social work practice with all its specializations.

484. **SOCIAL CASEWORK.** The process of problem solving used by social work agencies to help individuals to cope more effectively with their problems in social functioning.

555. **INDEPENDENT STUDY.** Special topics involving library and/or field research. 
Prerequisites: Senior or graduate standing and consent of instructor.

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.
TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY AND COLLEGES

EX OFFICIO TRUSTEES

Ronald Reagan
Governor of California
President of the Trustees
State Capitol, Sacramento 95814

Ed Reinecke
Lieutenant Governor of California
State Capitol, Sacramento 95814

Bob Moretti
Speaker of the Assembly
State Capitol, Sacramento 95814

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

Dr. Glenn S. Dumke
Chancellor of the California State University and Colleges
5670 Wilshire Blvd., Los Angeles 90036

APPOINTED TRUSTEES

Appointments are for a term of eight years expiring March 1. Names are listed in order of accession to board.

Charles Luckman, 1974
9220 Sunset Boulevard, Los Angeles 90069

Daniel H. Ridder, 1975
604 Pine Avenue, Long Beach 90801

George D. Hart, 1975
111 Sutter Street, San Francisco 94104

Alec L. Cory, 1973
530 B Street, Suite 1900, San Diego 92101

Edward O. Lee, 1974
P. O. Box 23361, Oakland 94623

Karl L. Wente, 1976
5565 Tesla Road, Livermore 94550

W. O. Weissich, 1977
1299 Fourth Street, San Rafael 94901

Robert A. Hornby, 1978
P. O. Box 60043, Terminal Annex, Los Angeles 90060

Dr. William F. McColl, 1979
1433 West Merced Avenue, West Covina 91790

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

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

Gene M. Benedetti, 1978
8990 Poplar Avenue, Cotati 94952

Robert F. Beaver, 1976
254 East 27th St., Los Angeles 90011

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, 1973
1922 Russ Building, 235 Montgomery Street San Francisco 94104

OFFICERS OF THE TRUSTEES

President: Governor Ronald Reagan
Chairman: George D. Hart
Vice Chairman: Karl L. Wente
Secretary-Treasurer:
Chancellor Glenn S. Dumke
OFFICE OF THE CHANCELLOR
THE CALIFORNIA STATE UNIVERSITY AND COLLEGES
5670 Wilshire Boulevard, Los Angeles 90036 (213) 938-2981

Chancellor: Glenn S. Dumke
Executive Vice Chancellor: H. E. Brakebill
Vice Chancellor and General Counsel: Norman L. Epstein
Vice Chancellor, Business Affairs: D. Dale Hanner
Vice Chancellor, Physical Planning and Development: Harry Harmon
Assistant Chancellor, Faculty and Staff Affairs: C. Mansel Keene
Vice Chancellor, Academic Affairs: William B. Langsdorf

CALIFORNIA STATE COLLEGE, SAN BERNARDINO

ADVISORY BOARD

Arthur J. Forbes
Chairman
Riverside

Mrs. Don H. (Wilma) Goodcell
Vice Chairman
San Bernardino

Shibli S. Damus
San Bernardino

Florentino Garza
San Bernardino

James K. Guthrie
San Bernardino

Leroy Hansberger
Redlands

Mrs. William E. (Barbara) Leonard
San Bernardino

Martin Matich
Rialto

Verne F. Potter, Jr.
San Bernardino

Mrs. C. Lowell (Nancy) Smith
San Bernardino

Earl Wilson
San Bernardino
CALIFORNIA STATE COLLEGE, SAN BERNARDINO

ADMINISTRATIVE OFFICERS

President: John M. Pfau, Ph.D.
   Director of Public Affairs: Edna Steinman, B.J.

Vice President for Academic Affairs: Gerald M. Scherba, Ph.D.
   Dean of Academic Administration: James D. Thomas, Ph.D.
      Assistant to Dean of Academic Administration:
   Dean of Academic Planning: Ralph Petrucci, Ph.D.
   Associate Dean of Academic Planning:
   Dean of Continuing Education: Fred Roach, Ph.D.
   Chairman, Division of Humanities: P. Richard Switzer, Ph.D.
   Chairman, Division of Natural Sciences:
   Chairman, Division of Social Sciences: Ward M. McAfee, Ph.D.
   Chairman, Department of Education: Robert L. West, Ed.D.
   Chairman, Department of Physical Education: C. Michael O'Gara, M.S.
   College Librarian: Arthur Nelson, M.A.L.S.
      Head, Library Public Services: Jeanette Bernthaler, M.A.L.S.
      Head, Library Technical Services: Marty Bloomberg, M.A.
   Associate Dean of Admissions and Records: H. Stephen Prouty, M.S.
   Registrar: John G. Morey, B.A.
   Director of Audiovisual Services: Robert A. Senour, Ph.D.
   Director of Institutional Research: Robert A. Schwabe, Ph.D.

Vice President for Administration: Joseph K. Thomas, Ed.D.
   Building Coordinator: James H. Urata, M.A.
   Director of Physical Plant: Herbert Brown, M.S.C.E.

Dean of Students: Kenton L. Monroe, Ph.D.
   Associate Dean, Activities and Housing: Russell J. DeRemer, Ph.D.
      Activities Advisor: Richard J. Bennecke, B.A.
      Housing Coordinator: L. Theron Pace, Ph.D.
   Associate Dean, Counseling and Testing: John M. Hatton, Ph.D.
      Counselor and Test Officer: Donald C. Woods, Ph.D.
   Associate Dean, Placement and Financial Aid: Doyle J. Stansel, M.A.
      Financial Aid Coordinator: Theodore Krug, B.A.
      Placement Advisor: Gladys M. Hubbard, M.A.
   Director, Educational Opportunity Program: Lawrence E. Johnson, M.A.
      Coordinator of Educational Opportunity Program
      Supportive Services: Pedro F. Lopez, B.A.
Director, Student Health Services: Samuel M. Plaut, M.D.
Director of College Police: Walter S. Kadyk, B.A.

Business Manager: Leonard B. Farwell, M.B.A.
Assistant to Business Manager: John Fredricks, B.S.
Accounting Officer: Bernard Higuera
Budget Officer: Jim G. Martinez, B.A.
Business Services Officer: R. Joy Robertson, A.A.
Personnel Officer: Oscar Jackson, B.A.
William V. Ackerman, 1972
Assistant Professor of Geography

Leta M. Adler, 1970
Professor of Sociology
B.A. 1942, University of California, Los Angeles; M.A. 1946, Washington State University; Ph.D. 1958, University of Wisconsin.

Elliott R. Barkan, 1968
Associate Professor of History

Ronald E. Barnes, Jr., 1965
Professor of Drama; Chairman, Department of Drama
B.S.Ed. 1951, University of Minnesota; Ph.D. 1963, Stanford University.

Joe Bas, 1968
Associate Professor of Spanish; Chairman, Department of Foreign Languages and Literature

Jeanette Bernthalier, 1965
Librarian IV
B.A. 1962, University of Redlands; M.A.L.S. 1963, University of Southern California.

Robert A. Blackey, 1968
Associate Professor of History

Marty Bloomberg, 1966
Librarian IV

Robert B. Bowin, 1971
Associate Professor of Administration

Michael R. Brown, 1970
Librarian II
B.A. 1963, Upland College; M.S. in L.S. 1965, University of Southern California.

Dominic M. Bulgarella, 1969
Assistant Professor of Sociology

Michael R. Burgess, 1970
Librarian II
A.B. 1969, Gonzaga University; M.S. in L.S. 1970, University of Southern California.

M. Johnna Butter, 1971
Assistant Professor of Psychology
B.A. 1967, Georgia State University; M.S. 1968, Pennsylvania State University.
Frederick F. Campbell, 1970
Assistant Professor of History
B.A. 1965, St. Lawrence University; M.A. 1967, Ohio State University.

Edward J. Carlson, 1969
Assistant Professor of Administration; Chairman, Department of Administration

Rodger D. Carlson, 1972
Associate Professor of Administration

John S. Chaney, 1972
Lecturer in Administration
B.S. 1966, University of Southwestern Louisiana; M.B.A. 1968, Ph.D. 1971, University of Texas.

Cherie E. Choate, 1968
Assistant Professor of Mathematics

Joseph J. Chouinard, 1970
Librarian II

Stella Clark, 1971
Assistant Professor of Spanish
B.A. 1964, University of Mississippi; M.A. 1966, Ph.D. 1971, University of Kansas.

Wallace T. Cleaves, 1971
Assistant 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.

Arthur M. Colfer, 1971
Assistant Professor of Anthropology

John H. Craig, 1971
Assistant Professor of Chemistry
B.S. 1964, George Washington University; Ph.D. 1969, Georgetown University.

James D. Crum, 1966
Professor of Chemistry; Chairman, Department of Chemistry
B.Sc. 1952, Ohio State University; M.Sc. 1953, Marshall University; Ph.D. 1958, Ohio State University.

Doris M. DeBello, 1971
Assistant Professor of Psychology
B.S. 1966, Rhode Island College; Ph.D. 1971, University of Alabama.

Danny C. DeCeglie, 1970
Assistant Professor of Administration
B.A. 1965, California State College, Fullerton; M.B.A. 1969, University of Southern California.

David L. Decker, 1971
Assistant Professor of Sociology
Rene F. Dennemeyer, 1966
Professor of Mathematics
A.B. 1948, M.A. 1949, Ph.D. 1956, University of California, Los Angeles.

Russell J. DeRemer, 1965
Associate Professor of Physics; Associate Dean, Activities and Housing

G. Keith Dolan, 1967
Professor of Education; Coordinator of Secondary Education

Leo G. Doyle, 1971
Assistant Professor of Art

Barbara Duncan, 1971
Assistant Professor of Psychology

A. Mac Eaton, 1969
Assistant Professor of Psychology

Alfred S. Egge, 1966
Professor of Biology; Chairman, Department of Biology
B.A. 1957, California State College, Long Beach; M.S. 1959, Ph.D. 1962, University of Arizona.

John S. Fine, 1970
Assistant Professor of Sociology

Robert G. Fisk, 1962
Professor of Education
B.S. 1941, M.Ph. 1946, University of Wisconsin; Ed.D. 1953, Teacher's College, Columbia University.

James E. Ford, 1970
Assistant Professor of Sociology

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.

Bruce Golden, 1965
Assistant Professor of English

Richard E. Goodman, 1967
Associate Professor of Biology
A.B. 1960, Ph.D. 1965, University of California, Los Angeles.

Carol F. Goss, 1971
Assistant Professor of Political Science
Stephen A. Graham, 1971
Assistant Professor of Political Science

Joseph W. Gray, 1969
Assistant Professor of Education

Mark L. Greathouse, 1971
Assistant Professor of German

John E. Hafstrom, 1965
Professor of Mathematics
B.S. 1936, North Dakota State University; M.A. 1949, Ph.D. 1954, University of Minnesota.

Dalton Harrington, 1969
Assistant 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.

Robert R. Harrison, 1965
Professor of Art; Chairman, Department of Art
B.F.A. 1941, Wayne University; M.A. 1942, Ph.D. 1957, State University of Iowa.

Charles V. Hartung, 1969
Associate Professor of English
A.B. 1938, M.A. 1947, University of California, Berkeley; Ph.D. 1953, Stanford University.

John M. Hatton, 1967
Assistant Professor of Psychology; Associate Dean, Counseling and Testing
B.A. 1961, University of Minnesota; Ph.D. 1965, Stanford University.

John W. Heeren, 1971
Assistant Professor of Sociology

Philip L. Herold, 1970
Assistant Professor of Psychology

Jesse Hiraoka, 1965
Professor of French
B.A. 1950, Roosevelt University; M.A. 1955, University of Chicago; Ph.D. 1962, Northwestern University.

Dennis L. Ikenberry, 1965
Associate Professor of Physics

Virginia H. Ingersoll, 1971
Assistant Professor of Administration
A.B. 1964, Marquette University; Ph.D. 1971, University of Illinois.

Jorun B. Johns, 1965
Assistant Professor of German
Ph.D. 1956, University of Vienna.
Ronald Johnson, 1971  
Assistant Professor of Geography  

Paul J. Johnson, 1966  
Associate Professor of Philosophy  

Clinton B. Jones, 1971  
Associate Professor of Political Science  
B.S. 1959, Southern University; M.A. 1968, California State College, Los Angeles; Ph.D. 1971, Claremont Graduate School.

Lee H. Kalbus, 1955  
Professor of Chemistry  
B.S.Ed. 1950, Wisconsin State University; Ph.D. 1954, University of Wisconsin.

Selma S. Keller, 1966  
Librarian III  
B.A. 1940, University of Utah; B.S.I.S. 1941, University of Denver.

Charles F. Kellers, 1968  
Professor of Physics; Chairman, Department of Physics  
B.A. 1953, Swarthmore College; Ph.D. 1960, Duke University.

Brij B. Khare, 1968  
Associate Professor of Political Science; Chairman, Department 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  
Associate Professor of Psychology  

Helene W. Koon, 1970  
Assistant Professor 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  
Assistant Professor of English  

Joseph Labat, 1966  
Assistant Professor of French  

Robert A. Lee, 1968  
Associate Professor of English  
B.A. 1961, University of California, Riverside; Ph.D. 1966, University of Oregon.

Margaret Lenz, 1970  
Assistant Professor of Education  
B.A. 1951, M.Ed. 1957, University of California, Los Angeles; Ph.D. 1972, Claremont Graduate School.

Vernon O. Leviege, 1969  
Assistant Professor of Sociology  
B.S. 1967, University of Arizona; M.S.W. 1969, Fresno State College.

Denis R. Lichtman, 1969  
Assistant Professor of Mathematics; Chairman, Department of Mathematics  
Roger P. Lintault, 1969
  Associate Professor of Art

Glenn Litton, Jr., 1971
  Assistant Professor of English

Fook Fah Liu, 1970
  Assistant Professor of Physics
  B.Sc. 1956, Presidency College, India; Ph.D. 1962, Purdue University.

Ward M. McAfee, 1965
  Associate Professor of History; Chairman, Division of Social Sciences

John F. McDonnell, 1969
  Assistant Professor of Administration; Assistant to the Dean of Academic Administration
  B.S. 1955, Bowling Green State University; M.B.E. 1967, Claremont Graduate School.

Sarojam Mankau, 1968
  Assistant Professor of Biology
  B.A. 1949, Women's Christian College, India; M.S. 1952, Ph.D. 1956, University of Illinois.

Kenneth A. Mantei, 1968
  Assistant Professor of Chemistry
  A.B. 1962, Pomona College; Ph.D. 1967, Indiana University.

E. Clark Mayo, 1967
  Assistant Professor of English

Mary Jo Meade, 1968
  Librarian III
  B.A. 1939, Clarke College; B.S. in L.S. 1940, Western Reserve University.

Leonard M. Moite, 1969
  Assistant Professor of Economics
  B.A. 1963, Queens College; M.A. 1965, City University of New York.

Kenton L. Monroe, 1965
  Professor of Psychology; Dean of Students
  B.A. 1959, University of Oregon; M.S. 1963, Ph.D. 1964, Purdue University.

Joseph R. Moran, 1972
  Assistant Professor of Art
  B.A. 1970, University of California, Riverside; M.F.A. 1972, Claremont Graduate School.

Stephen F. Morin, 1971
  Assistant Professor of Psychology
  B.A. 1967, University of Massachusetts; M.A. 1969, Ph.D. 1971, Ohio State University.

Bernhardt L. Mortensen, 1968
  Assistant Professor of Sociology
  A.B. 1937, University of California, Los Angeles; M.A. 1962, California State College, Los Angeles; Ph.D. 1970, University of California, Los Angeles.

Florence B. Mote, 1967
  Associate Professor of Education
James L. Murphy, 1970
Assistant Professor of Mathematics

Arthur Nelson, 1963
College Librarian
B.A. 1950, St. Thomas College; M.A. 1951, M.A.L.S. 1956, University of Minnesota.

C. Michael O’Gara, 1964
Professor of Physical Education; Chairman, Department of Physical Education
B.S. 1944, M.S. 1952, University of California, Los Angeles.

Walter C. Oliver, 1969
Assistant Professor of Spanish
B.A. 1963, New Mexico State University; M.A. 1966, Ph.D. 1970, University of New Mexico.

Clifford T. Paynton, 1968
Associate Professor of Sociology; Chairman, Department of Sociology

Dennis M. Pederson, 1970
Assistant Professor of Chemistry
B.S. 1962, University of Puget Sound; Ph.D. 1968, Purdue University.

Stuart M. Persell, 1967
Assistant Professor of History

Ralph H. Petrucci, 1964
Professor of Chemistry; Dean of Academic Planning
B.S. 1950, Union College; Ph.D. 1954, University of Wisconsin.

John M. Pfau, 1962
President; Professor of History

James C. Pierson, 1971
Assistant Professor of Anthropology

Gregory L. Price, 1971
Assistant Professor of Physical Education
B.S. 1969, Fort Hays Kansas State College.

H. Stephen Pruoty, Jr., 1964
Associate Dean, Admissions and Records
B.S. 1957, M.S. 1960, Kansas State University, Manhattan.

Johnnie Ann Ralph, 1971
Librarian II

Bonham C. Richardson, 1970
Assistant Professor of Geography

Fred Roach, 1969
Associate Professor of Political Science; Dean of Continuing Education
B.A. 1949, State University of Iowa; Ph.D. 1965, Claremont Graduate School.
Robert R. Roberts, 1963
Professor of History; Chairman, Department of History

J. Cordell Robinson, 1971
Assistant Professor of History

Anita Romulo, 1969
Assistant Professor of Education
B.S. 1959, Marymount College; M.S. 1968, University of Southern California.

Amanda Sue Rudisill, 1969
Assistant Professor of Drama
B.S. 1964, Millersville State College; M.A. 1966, Pennsylvania State University; Ph.D. 1972, Northwestern University.

Mireille G. Rydell, 1968
Associate Professor of French
Licence 1950, University of Bordeaux; M.A. 1958, Ph.D. 1968, University of Minnesota.

Judith Ann Rymer, 1970
Assistant Professor of Spanish
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. 1955, University of Chicago.

Kent M. Schofield, 1966
Associate Professor 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
Assistant Professor of English

Robert A. Schwabe, 1969
Assistant Professor of Mathematics; Director of Institutional Research
B.A. 1953, Denison University; M.A. 1958, Syracuse University; Ph.D. 1969, University of California, Riverside.

Robert A. Senour, 1970
Assistant Professor of Education; Director of Audiovisual Services
B.A. 1957, Ohio State University; M.Ed. 1966, Ph.D. 1970, Wayne State University.

Michael Simmons, 1971
Assistant Professor of Anthropology

William L. Slout, 1968
Associate Professor of Drama
B.A. 1949, Michigan State University; M.S. 1950, Utah State University; Ph.D. 1970, University of California, Los Angeles.
George E. Slusser, 1971
Assistant Professor of English
A.B. 1961, University of California, Berkeley; Diplome d'Etudes 1962, University de Poitiers, France.

Robert A. Smith, 1965
Professor of History
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.

Neville Spencer, 1968
Assistant Professor of Mathematics
B.A. 1962, University of Texas; M.A. 1965, University of Southern California.

Gordon E. Stanton, 1968
Associate Professor of Education

Robert G. Stein, 1967
Assistant Professor of Mathematics

Norman W. Steinaker, 1970
Assistant Professor of Education; Coordinator, Elementary Education
A.B. 1953, M.A. 1964, University of Redlands; Ed.D. 1971, Ball State University.

P. Richard Switzer, 1970
Professor of French; Chairman, Division of Humanities
A.B. 1947, A.M. 1948, University of Chicago; Ph.D. 1955, University of California, Berkeley.

Koou Takata, 1971
Assistant Professor of Economics
B.S. 1958, Arizona State University.

Ronald L. Taylor, 1969
Associate Professor of Biology
B.A. 1960, San Jose State College; M.S. 1962, Ph.D. 1964, University of Minnesota.

James D. Thomas, 1968
Associate Professor of Political Science; Dean of Academic Administration

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
Associate Professor of Education

John Tibbals, 1968
Librarian III
B.A. 1965, University of California, Santa Barbara; M.S. in L.S. 1966, University of Southern California.
Jess E. Van Derwolker, 1969
Assistant Professor of Economics

Leslie E. Van Marter, 1965
Professor of Philosophy; Chairman, Department of Philosophy

Edward B. Waggoner, 1969
Assistant Professor of Spanish
B.A. 1961, Trinity College; M.A. 1964, University of Iowa.

Carl P. Wagoner, 1969
Assistant Professor of Sociology; Associate Dean of Academic Planning
B.S. 1960, Ball State University; M.A. 1964, Ph.D. 1971, Indiana University.

George A. Weiny, 1967
Associate Professor of Physical Education
B.A. 1957, Iowa Wesleyan College; M.A. 1962, State University of Iowa.

Robert L. West, 1966
Professor of Education; Chairman, Department of Education

Edward M. White, 1965
Professor of English; Chairman, Department of English

Harvey A. Wichman, 1968
Associate Professor of Psychology; Chairman, Department of Psychology

Alice K. Wilson, 1969
Librarian II
A.B. 1937, University of Dubuque; M.L.S. 1968, University of California, Los Angeles.

Ruth C. Wilson, 1971
Assistant Professor of Biology

Don Woodford, 1972
Associate Professor of Art

Donald C. Woods, 1968
Assistant Professor of Psychology; 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.

Shigaharu Yamada, 1972
Associate Professor of Art

Walter O. Zoecklein, 1969
Assistant Professor of Philosophy
A.B. 1940, University of Cincinnati; M.A. 1960, University of Puget Sound; Ph.D. 1969, University of California, San Diego.
SPECIAL APPOINTMENTS

John M. Anderson, 1971
Lecturer in Music
A.B. 1952, Pasadena College; B.S.C. 1959, Ph.D. 1965, University of Southern California.

Marie Astor, 1967
Studio Music Instructor

Gail Barnes, 1971
Studio Music Instructor

John R. Barrett, 1970
Studio Music Instructor

Phyllis H. Benson, 1970
Studio Music Instructor
B.M. 1951, Wheaton College.

Edward P. Casem, 1967
Studio Music Instructor
B.A. 1967, California State College, Fullerton.

Gerard Faber, 1969
Studio Music Instructor
M.M. (equivalent) 1951, Conservatory of Music, Amsterdam; A.A.G.O.

Betty Jackson, 1967
Studio Music Instructor

Gary G. Locke, 1971
Studio Music Instructor
B.M. 1971, University of Redlands.

Dorothy Older, 1971
Studio Music Instructor

Victoria Shapiro, 1967
Studio Music Instructor
Diploma 1947, B.S. in Viola 1949, Juilliard School of Music.

David B. Turner, 1971
Studio Music Instructor
B.M. 1970, University of Redlands.
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. The other statement attached is an expression of policy of the Board of Trustees as to acceptable campus conduct.

41301. Expulsion, Suspension and Probation of Students. Following procedures consonant with due process established for the state college of which he is a student, any student of a state college may be expelled, suspended, placed on probation or given a lesser sanction for one or more of the following causes which must be state college related:

(a) Cheating or plagiarism in connection with an academic program at a state college.
(b) Forgery, alteration or misuse of state college documents, records, or identification or knowingly furnishing false information to a state college.
(c) Misrepresentation of oneself or of an organization to be an agent of a state college.
(d) Obstruction or disruption, on or off college property, of the state college educational process, administrative process, or other college function.
(e) Physical abuse on or off college property of the person or property of any member of the college community or of members of his family or the threat of such physical abuse.
(f) Theft of, or non-accidental damage to, state college property; or property in the possession of, or owned by, a member of the college community.
(g) Unauthorized entry into, unauthorized use of, or misuse of state college property.
(h) On state college 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 state college property or at a state college function without prior authorization of the state college president.
(j) Engaging in lewd, indecent, or obscene behavior on state college property or at a state college function.
(k) Abusive behavior directed toward a member of the college community.
(l) Violation of any order of a state college 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 college community” is defined as meaning state college Trustees, academic, non-academic and administrative personnel, students, and other persons while such other persons are on state college property or at a state college function.
(2) The term “state college property” includes:
   (a) real or personal property in the possession of, or under the control of, the Board of Trustees of the California State Colleges, and
   (b) all state college feeding, retail, or residence facilities whether operated by a college or by a state college auxiliary organization.
The term "deadly weapons" includes any instrument or weapon of the kind commonly known as a blackjack, slung 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.

The term "behavior" includes conduct and expression.

This Section is not adopted pursuant to Education Code Section 23604.1.

The provisions of this Section as hereinabove set forth shall only apply to acts and omissions occurring subsequent to its effective date. 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 state college 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 student for the semester, quarter, or summer session in which he 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 is suspended, no additional tuition or fees shall be required of the student on account of his suspension. In the event that a student who has not reached his twenty-first birthday is suspended or expelled, the President shall immediately notify his 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 during a campus disturbance a student has interfered with the peaceful conduct of the campus by an act which is a cause for disciplinary action pursuant to Section 41301 and that, unless placed on interim suspension, such student would commit further acts of the same or a similar character. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within not to exceed one week of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or his designated representative, enter any campus of the California State 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 in November 1968.

RESOLVED, By the Board of Trustees of California State Colleges, that this Board recognizes the need for a clear understanding of those types of behavior considered wholly unacceptable within the College Community; and be it further

RESOLVED, That this Board wishes to indicate to staff, students, and visitors alike that any of the following violations of orderly conduct are to be considered cause for prompt and diligent corrective action on the part of appropriate officials, including college disciplinary proceedings and the bringing of criminal charges where appropriate:

1. Obstruction or disruption of any authorized state college activity, including those of auxiliary organizations, whether on state college property or at any location then controlled by a state college.
2. Obstruction of either pedestrian or vehicular traffic on state college owned or controlled property.

3. Physical abuse or detention of any member of the college community at any location or of any other person while that person is a visitor on state college owned or controlled property.

4. Theft of or damage to state college property or property of any person while that property is on state college owned or controlled property.

5. Conduct which endangers the health or safety of any person while on state college owned or controlled property or at any college sponsored or supervised function.

6. Unauthorized entry to or use of any state college facilities, including buildings, grounds and equipment.

7. Failure to comply with directions of college police and any other law enforcement officers while they are acting in the performance of their duties.

8. Illegal possession or use of firearms, explosives, dangerous chemicals or other weapons on state college owned or controlled property.

9. Failure to comply with directions of a State College President or his authorized designee(s) while acting in the performance of his(their) duties.

10. Disorderly conduct, breach of the peace, and aiding, abetting or procuring another to breach the peace on state college owned or controlled property or at any state college sponsored or supervised functions; and be it further

RESOLVED, That this resolution is not to be construed as superseding any additional violations as specified by law, the administrative code, the resolutions of this Board, or the rules of any particular college.
INDEX

Absence, leave of 36
Academic course load 29
Academic disqualification 33
Academic divisions 59
Academic probation, admission on 21
Academic probation 33
Academic program 9, 59–65
Accelerated progress 34
Accreditation 9
Activities 47
Adding courses 31
Administration (major) 67–69
Administrative officers 141–142
Admission to the college 13–22
  Admission as an auditor 20
  Admission as a freshman 15
  Admission as an undergraduate transfer student 17
  Admission of California residents 15
  Admission of foreign students 20
  Admission of former students 20
  Admission of graduates of high schools in a foreign country 16
  Admission of non-California residents 16
  Admission of non-high-school graduates 16
  Admission of previously disqualified students 20
  Admission of unclassified graduate students 18
  Admission on academic probation 21
  Admission to summer session 20
  Admission to teaching credential program 19, 87
Advanced placement 14
Advisor, faculty 15
Advisory board 140
Afternoon classes 55
Alumni association 51
American College Tests (ACT) 15–16
Anthropology 71–72
Application procedure 13
Application schedule for 1973–74 13
Applied music 118–119
Art 73–74
Attendance 36
Auditing classes 20, 30
Biology 75–77
Board of trustees 139
Bookstore 51
Business administration 67–69
Cafeteria 48
Calendar 4–5
California residents, admission of 15
California State University and Colleges 6, 7
Career placement 49
Challenge of courses 34
Chancellor, Office of 140
Change of program 31
Changes in registration 31
Chemistry 79–81
Class attendance regulations 36
Class standing 29
College entrance examinations 15–16
College foundation 11
College police 50
Common admissions procedures 13
Community college credits 17–18
Concurrent enrollment 30
Continuing education 55–56
Correspondence courses, credit for 18
Costs, estimated 26
Counseling 47
Course load 29
Course numbering system 59
Credential programs 87
Credit by examination 34–35
Credit for extension or correspondence courses 18, 55
Credit, postgraduate for senior students 36
Credit summary 18
Credit, transfer of 17

Dean's List 43
Debts, student 26
Degree programs offered 10
Degree requirements 41
Departmental honors 43
Determination of residency 21
Disqualification 33
Disqualified students, readmission of 20
Divisions of the college 59
Drama 83–84
Dropping courses 31
Early childhood teaching credential 88
Economics 85–86
Education 87–91
Educational opportunity program 50
Elementary teaching credential program 88
English 93–95
English proficiency 60
Enrollment at any other institutions (see concurrent enrollment) 30, 36
Entrance examination 15
Ethnic studies 96–98
Evaluation of transcripts (see transfer of credit) 17
Evening classes 55–56
Examination, credit by 34–35
Examinations, final 34
Expenses 25
Extended filing period 14
Extension courses, credit for 18, 55

Faculty 143–154
Faculty advisor 15
Fees 25
Final examinations 34
Financial aid 48
Foreign language requirements 42
Foreign languages, department of 99–103
Foreign students, admission of 16, 20
Former students, admission of 20
Foundation of the college 11
French 99–100
Freshmen, admission of 15
Full-term course defined 59
Full-time student course load 29

General studies courses 61–65
General studies requirements 41
General studies senior seminars 62–65
Geography 105–106
German 100–101
Grade reports 32
Grades for withdrawal 31–32
Grading system 31
Graduate students 18, 19
Graduation requirements 35, 41

Hardship petitions 14
Health center 50
Health insurance 50
High school preparation, recommended 17
History 108–110
Honors 43
Housing 48
Humanities (major) 111

Insurance programs 50
International programs 51–52
Junior (community) college credits transferrable 17–18

Late filing period 14
Late registration 30–31
Leave of absence 36
Library 10
Loan funds 48

Major fields of study 60
Master's degree in education 89
Mathematics 113–115
Music 116–119

Natural Sciences 120
Non-California residents, admission of 16
Non-high-school graduates, admission of 16
Numbering system of courses 59

Overloads 29
Overseas programs 51–52

Parking fees 25
Personal counseling 47
Philosophy 121–122
Physical education 123–124
Physical education requirement 41, 123
Physics 125–126
Placement service 48
Plagiarism 33
Political science 128–130
Postgraduate credit for senior students 36
Pre-professional programs 43–45
Probation, admission on 21
Probation 33
Psychology 131–133

Quarter-hour credit comparisons 59

Readmission of disqualified students 20
Redirection 14
Refunds 26

158
Registration 29–37
Registration, late 30–31
Repeat of courses 32
Requirements for a degree 41–45
Requirements in general studies 41
Residence halls 48
Residence requirement 43
Residence, determination of 21
Russian 101

Schedule of fees 25
Scholarships 48–49
Scholarship requirements 33
Scholastic Aptitude Test 15–16
Secondary teaching credential program 89
Selective service student certificates 37
Semester-hour credit comparison 59
Senior seminar, general studies 62–65
Senior students, postgraduate credit for 36
Social sciences (major) 134
Sociology 135–137
Spanish 101–103
Special appointments 154
Student activities 47–48
Student conduct code 155–156
Student debts 26
Student government 47
Student health center 50
Student life 47–52

Study abroad 51–52
Summer enrollment at other institutions 36
Summer session 20, 55
Teaching credential programs 19, 87
Teacher education 87
Three/three academic plan 9
Transcripts 37
Transfer of credit 17–18
Transfer students, admission of 17
Trustees, California State University and Colleges 139
Tuition 25

Undergraduate degree requirements 41–45
Undergraduate transfer students, admission of 17
Unofficial withdrawal 32

Veterans and dependents, information for 30, 37
Withdrawal from college 31
Withdrawal, grades for 31–32