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CATALOG

1970-71



CALIFORNIA STATE COLLEGE

SAN BERNARDINO

COMPLIMENTARY COPY

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, at the same address:

General information.....	Office of the Dean of Instruction
Financial aid	Office of the Dean of Students
Housing	Office of the Dean of Students
Placement	Office of the Dean of Students
Student bills and fees	Office of the Bursar
Transcripts of records	Office of the Registrar
Veterans	Office of the Registrar



California State College, San Bernardino

General Catalog 1970-71

\$1.00 plus tax



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1970

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COLLEGE CALENDAR 1970-71

FALL TERM

September 7	Labor Day, administrative holiday
September 9	Admission Day, administrative holiday
September 18	Beginning of the academic year
September 21-23	Orientation and testing for new students
September 22	Advising for juniors, seniors, and graduate students
September 23	Advising for freshmen and sophomores
September 24	Registration for juniors, seniors, and graduate students
September 25	Registration for freshmen and sophomores
September 28	Classes begin Late registration
October 2	Last day to add classes
October 19	Last day to file graduation requirement check for December graduation
October 23	Last day to drop classes without penalty for unsatisfactory work
November 16-17	Pre-registration for winter term
November 26-27	Thanksgiving, academic and administrative holiday
December 8	Last day of classes
December 9-11	Final examinations
December 11	End of term

WINTER TERM

December 25-29	Christmas, administrative holiday
January 1	New Year's, administrative holiday
January 4	Registration for students who did not pre-register
January 5	Classes begin Late registration
January 11	Last day to add classes
January 26	Last day to file graduation check for March graduation

February 1	Last day to drop classes without penalty for unsatisfactory work
February 15	Washington's Birthday, academic and administrative holiday
February 23–24	Pre-registration for spring term
March 16	Last day of classes
March 17–19	Final examinations
March 19	End of term

SPRING TERM

March 26	Registration for students who did not pre-register
March 29	Classes begin Late registration
April 5	Last day to add classes
April 19	Last day to file graduation check for June graduation
April 23	Last day to withdraw from classes without penalty for unsatisfactory work
May 31	Memorial Day, academic and administrative holiday
June 8	Last day of classes
June 9–11	Final examinations
June 11	End of term
June 12	Commencement; last day of academic year

SUMMER SESSION

June 21	Registration for summer session
June 22	Classes begin Late registration
June 24	Last day to add classes
June 28	Last day to file graduation check for August graduation
July 1	Last day to withdraw from classes without penalty for unsatisfactory work
July 5	Independence Day, academic and administrative holiday
July 29	Last day of classes
July 30	Final examinations

THE CALIFORNIA STATE COLLEGES

The 19 California State Colleges, from Humboldt County in the north to San Diego in the south, comprise the largest system of public higher education in the Western hemisphere and one of the largest in the world. Current enrollment exceeds 227,000 full-time and part-time students who are served by a faculty which numbers approximately 13,000.

Although San Jose State College, the oldest, was founded over a century ago, the California State Colleges were not drawn together as a system under an independent Board of Trustees until after passage of the Donahoe Higher Education Act by the Legislature in 1960.

Responsibility for the California State Colleges is vested in the Board of Trustees, whose members are appointed by the governor. The chancellor is the administrative officer of the trustees. Together, the trustees and the chancellor set broad policy, while delegating responsibility for implementation to the colleges. The Academic Senate of the California State Colleges, consisting of elected representatives of the faculty at each college, recommends academic policy to the Board of Trustees through the chancellor.

Each college in the system has its own geographic and curricular character, but all emphasize the liberal arts and sciences. Programs leading to the bachelor's and master's degrees, as well as a limited number of joint doctorates, are master planned to anticipate and accommodate student interest and the educational and professional needs of the State of California. The primary responsibility of the faculty is the instructional process, with increasing recognition of the importance of the roll of research as a necessary concomitant to high quality teaching.

The California State Colleges are now in the most dynamic period of their development. Prior to World War II, there were seven State Colleges with a peak total enrollment of 13,000. Since 1947, twelve new colleges have been established and sites have been selected for new campuses in Ventura, San Mateo and Contra Costa counties. California State College, Bakersfield, will open its doors to students for the first time this year. Enrollment in the system is expected to go beyond 400,000 by 1980.

THE CALIFORNIA STATE COLLEGES

California State College, Bakersfield

615 California Avenue
Bakersfield, California 93304
Paul F. Romberg, President
805 327-9101

California State College, Dominguez Hills

1000 East Victoria Street
Dominguez Hills, California 90247
Leo F. Cain, President
213 532-4300

California State College, Fullerton

800 North State College Boulevard
Fullerton, California 92631
William B. Langsdorf, President
714 870-2011

California State College, Hayward

25800 Hillary Street
Hayward, California 94542
Ellis E. McCune, Interim President
415 538-8000

California State College, Long Beach

6101 East Seventh Street
Long Beach, California 90801
Stephen Horn, President
213 433-0951

California State College, Los Angeles

5151 State College Drive
Los Angeles, California 90032
John A. Greenlee, President
213 224-2011

California State College, San Bernardino

5500 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 91766
Robert C. Kramer, President
213 964-6424

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
Robert E. Hill, President
916 345-5011

Fresno State College

Shaw and Cedar Avenues
Fresno, California 93726
Karl Falk, Acting President
209 487-9011

Humboldt State College

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

Sacramento State College

6000 Jay Street
Sacramento, California 95819
Bernard L. Hyink, President
916 454-6011

San Diego State College

5402 College Avenue
San Diego, California 92115
Malcolm A. Love, President
714 286-5000

San Fernando Valley State College

18111 Nordhoff Street
Northridge, California 91324
James W. Cleary, President
213 349-1200

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
Hobert W. Burns, Acting President
408 294-6414

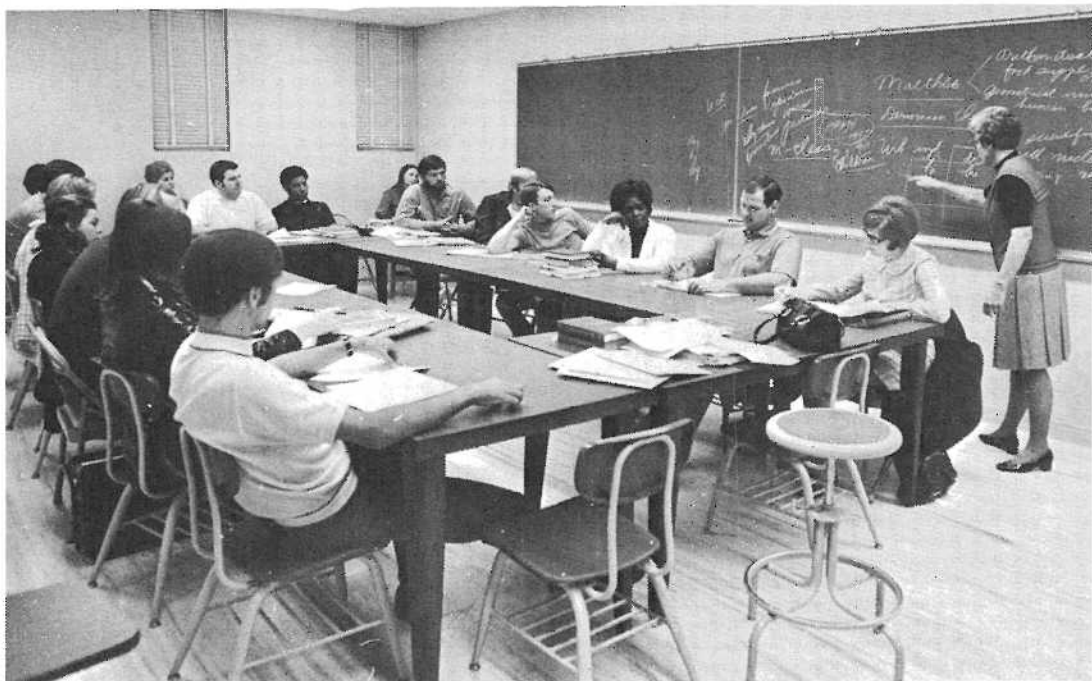
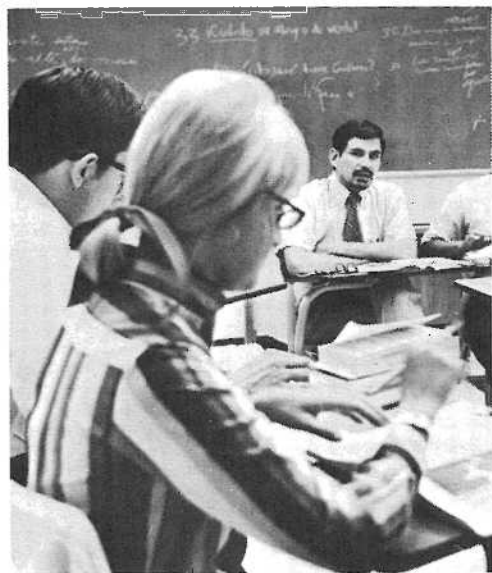
Sonoma State College

1801 East Cotati Avenue
Rohnert Park, California 94928
Ambrose R. Nichols, 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 18 major areas. Graduate programs will be offered after 1971.

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 College Library

The Library of the College consists of a general undergraduate collection of 125,000 books and bound periodicals. The Library currently subscribes to 1,500 periodicals and newspapers in addition to other serial

publications. Recordings, musical scores, maps, and curriculum materials supplement the book collection. The Library serves as a depository for the publications of the State of California.

Service features in the Library include individual study carrels, music-listening facilities, microform readers, and photo-duplicating services.

A six-floor Library building will be completed during the 1970-71 year.

Baccalaureate Degree Programs

In the 1970-71 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 (for freshmen, sophomores and juniors only)
- Business Administration
- Economics (for freshmen, sophomores and juniors only)
- History
- Political Science
- Psychology
- Sociology
- Social Sciences

Future Development of the College

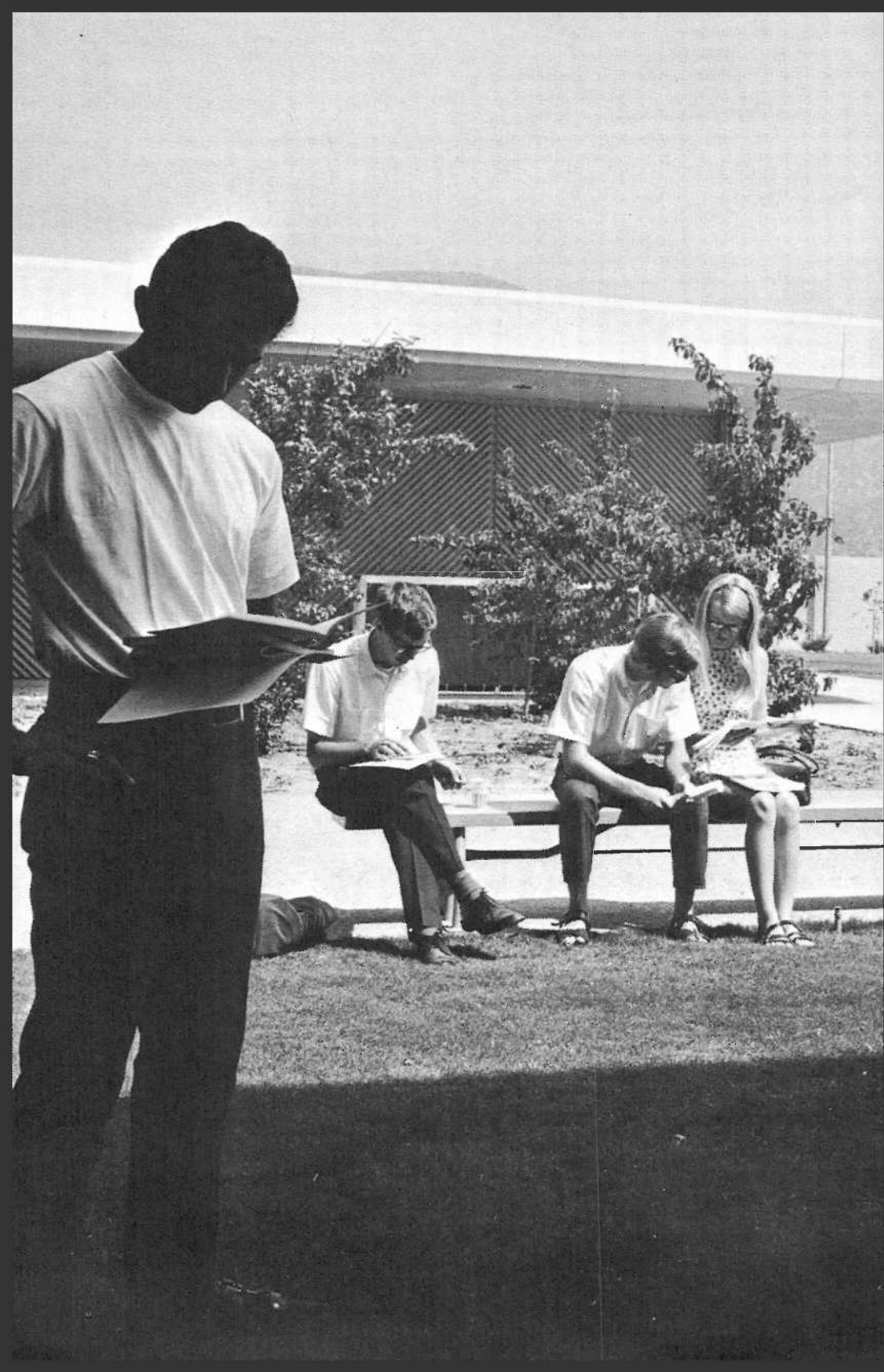
Over the next few years, the College anticipates the addition of baccalaureate degree programs in geography, geology, German and American studies and credential programs for teachers in the field of special education, as well as graduate degrees.

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.





ADMISSION TO THE COLLEGE

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 school or 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 when he again seeks admission and must meet the then current admission requirements.

Procedures for Admission

All students, including those attending part-time, are required to matriculate in the following manner:

1. Submit a completed application for admission accompanied by a \$20 application fee.
2. Have the high school of graduation send a transcript of record directly to California State College, San Bernardino, Office of Admissions.
3. Have each college attended (if any) send two transcripts of record directly to California State College, San Bernardino, Office of Admissions.
4. Submit a completed statement of residence (forms obtainable at the Office of Admissions).
5. Submit the scores from the American College Testing Program (ACT).
6. Upon receipt of a letter of admission, submit the health history and physical examination forms to the Student Health Center (forms obtainable at the Office of Admissions).

Before a student can be considered for admission all required admission materials must be on file in the Office of Admissions.

Entrance Examinations

All new lower-division students applying for admission to the College who have attempted fewer than 60 semester units (90 quarter units) of college work are required, as part of their application, to submit scores from the American College Testing Program (ACT) examination prior to the first registration at this institution. Students who have completed this test for another institution should arrange to have the results sent to the Office of Admissions in lieu of taking the test a second time.

The ACT may be taken at testing centers throughout the United States on established national testing dates during the year, or at specially

designated testing sessions at the College. Registration forms and student information bulletins are available from high school counselors or at the Office of Admissions.

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 or the Office of Admissions at the College.

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 35).

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 a Freshman

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

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 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.

Grade-Point Average	ACT Score Needed
3.21 and above	Eligible with any score
2.80	19
2.40	27
2.00	35
1.99 and below	Not eligible

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 1969-70. 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 except when specifically requested to do so.

4. *Non-High School Graduates*

An applicant who is over 21 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 promise of academic success is equivalent to that of eligible California high school graduates.

5. *High School Students*

A student enrolled in high school will be considered for enrollment in certain special programs if he is recommended by his principal and

* For 1970-71 the minimum eligibility index using the ACT test score is 741. It is computed by multiplying grade-point average by 200 and adding it to 10 times the composite ACT score.

his preparation is equivalent to that required of eligible California high school graduates. Such admission is for a particular program and does not constitute admission for continued enrollment.

Admission as an Undergraduate Transfer Student

Applicants who have attempted college work will be considered for admission under one of the following provisions. 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.

1. Applicants who are California residents with 60 or more semester units (90 quarter units) of college credit

An applicant who is a resident of California may be admitted as an undergraduate transfer if he has attained a grade-point average of 2.0 (C) or better in at least 60 semester units (90 quarter units) of college credit and was in good standing at the last college attended.

2. Applicants who are not California residents and who have 60 or more semester units (90 quarter units) of college credit

An applicant who is not a resident of California may be admitted to a California State College as an undergraduate transfer if he has completed at least 60 semester units (90 quarter units) of college credit and has attained a grade-point average in all units of college credit which places him among the upper one-half of eligible California residents who are applicants for admission under 1 (above); has a minimum grade-point average of 2.4; and was in good standing at the last college attended.

3. Applicants with fewer than 60 semester units (90 quarter units)

An applicant who has completed fewer than 60 semester units (90 quarter units) or the equivalent may be admitted if he meets the requirements under 1 or 2 (above) and if he meets requirements currently in effect for first-time freshmen; or, if he has been in full-time continuous enrollment at a college since his graduation from high school, he meets the requirements in effect for first-time freshmen at the time of his high school graduation.

Other Applicants

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

Transfer of Credit

A maximum of 70 semester units of work taken at a junior 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 junior college. No credit may be allowed for professional courses in education taken at a junior 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, junior 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.

Peace Corps Credit

Credit for Peace Corps training if acquired at an accredited institution may be accepted for transfer credit. Transcripts of training should be filed with the Admissions Office.

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, and (3) have maintained a minimum "C" average in all postgraduate work taken. Graduate degrees are not offered at the College currently. 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 teach-

ing 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. **Elementary or Secondary Teaching Credential Objective.** A student interested in working toward a standard elementary or secondary 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 as an unclassified graduate student. 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; \$20 application fee, except for currently enrolled students, and statement of residence form.
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. All graduate students are urged to have a personal set of transcripts which they can take to their advising sessions.

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 completed a two-year transfer program in a junior college in the United States with a good academic record.

Admission of Former Students

Students in good standing may be readmitted to the College after an absence of more than one term 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 two quarters or more (excluding summer session) 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 two 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 disqualifica-

tion regulations as stated on page 33. A student admitted on probationary status may be restricted by his advisor to a limited program.

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.

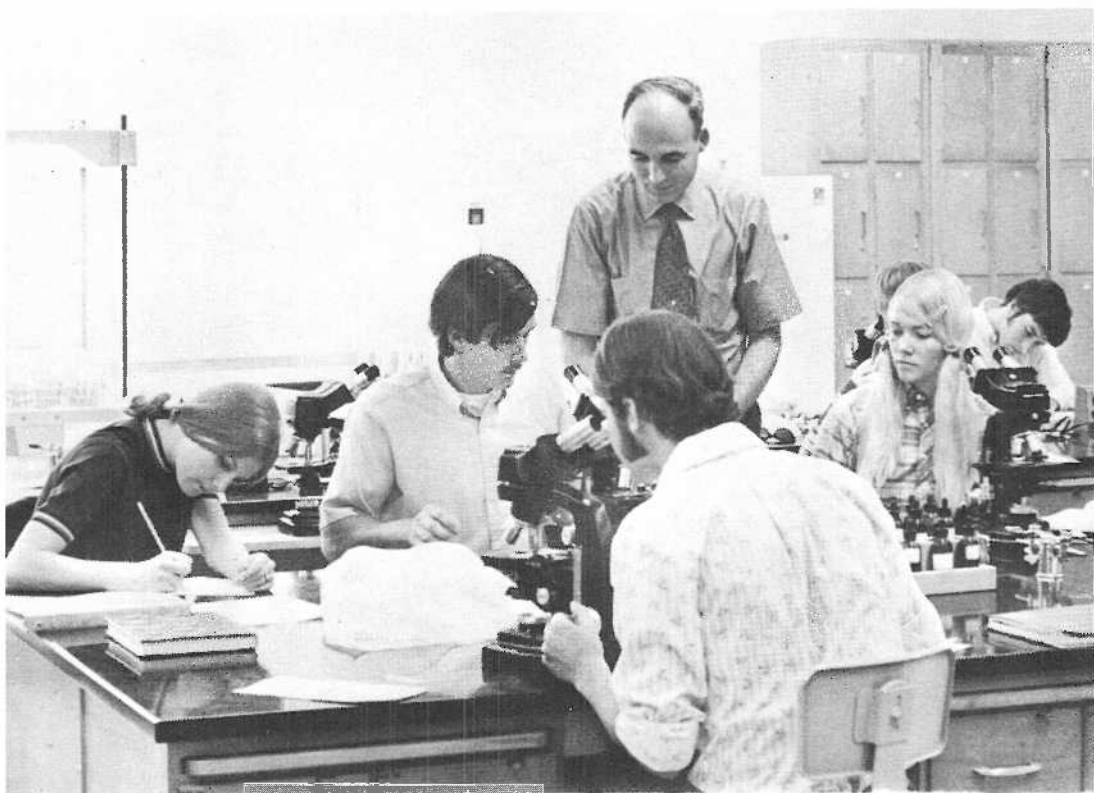
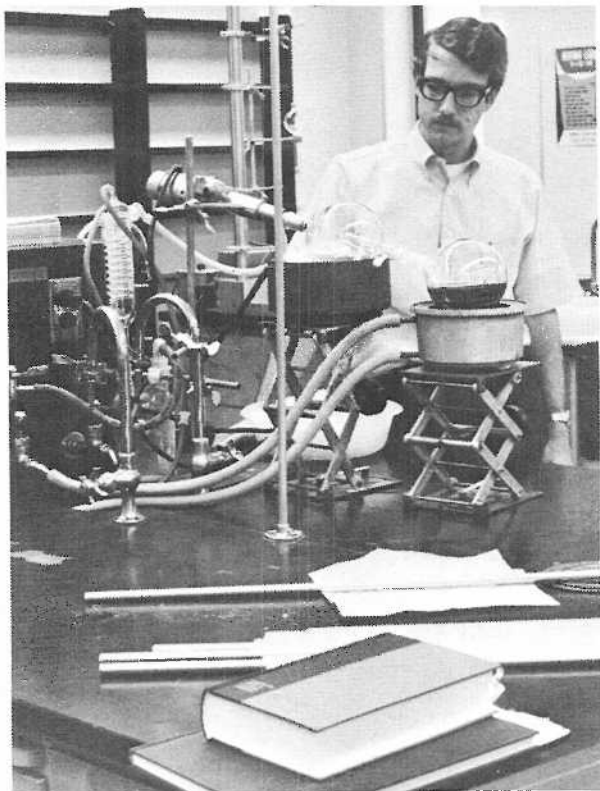
For further information concerning this program, contact the Director of the Educational Opportunity Program.

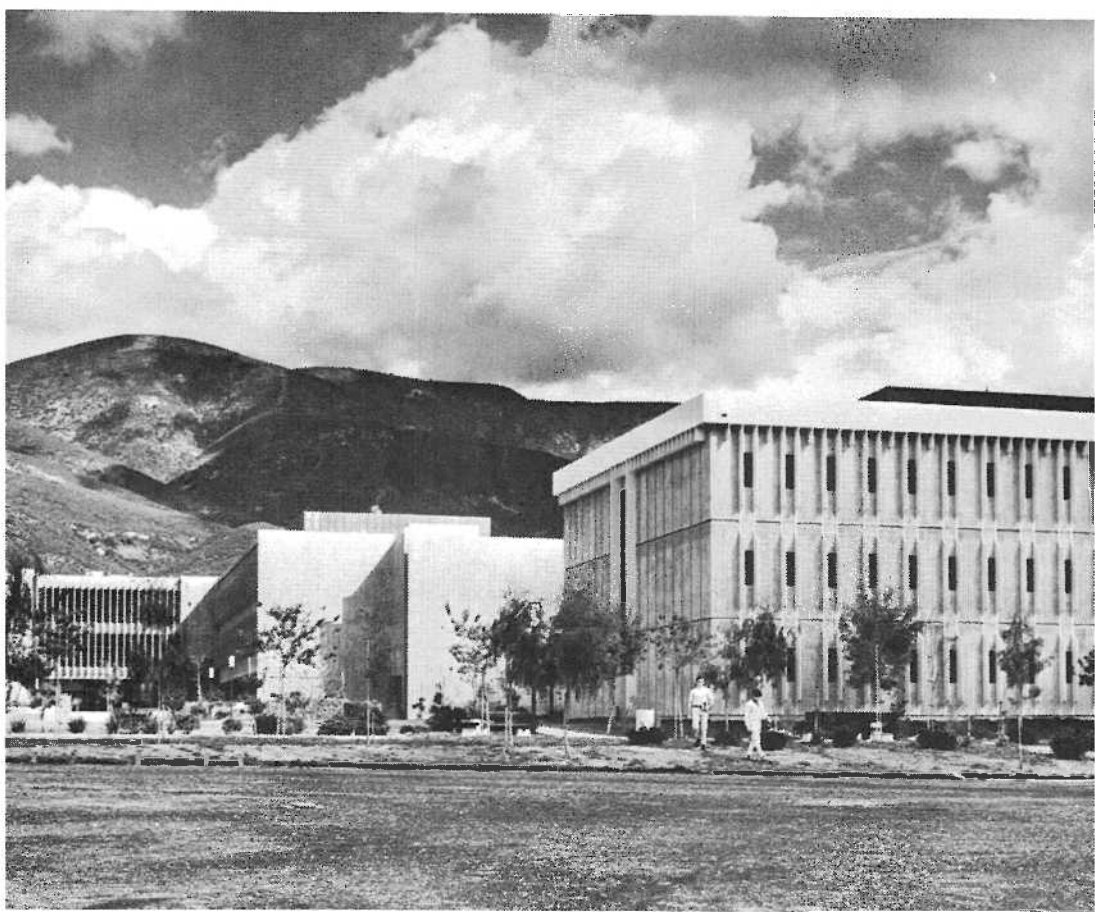
Redirection

It may not be possible for the College to accommodate all qualified applicants. If an application is accepted and it later becomes evident that admission will not be possible, the application and any supporting documents will, at the applicant's request, be forwarded to any State College where space is still available. No additional application fee is required.

Intra-System Transfer

A currently enrolled student, in good standing and maintaining a "C" average, may request the State College at which he is enrolled send copies of all necessary documents to another State College for transfer admission purposes, providing space is available. No additional application fee is required. Copies of all transcripts, test scores, residency forms and the application will be sent by the Admissions Office upon the request of a student. Application for intra-system transfer may be made to the Office of Admissions at either State College.





SCHEDULE OF FEES

The regular fees of the College are given below. Students are required to pay registration fees at registration. The non-resident tuition fee is required of all students who have not been legal residents of the State of California for one year immediately preceding the date of enrollment. No admission fee or tuition fee is required of any non-resident student who is a full-time employee of the California State Colleges or is the child or spouse of an employee of the California State Colleges.

Checks will be accepted at registration only for the amount of fees due. Fees are subject to change by action of the trustees of the California State Colleges.

All Students

Application fee (non-refundable)	\$20.00
payable by check or money order at time of applying	
Associated Students fee (more than one full-term course).....	6.50
(one full-term course or less).....	3.00
Material and service fee	36.00
Health center facility fee.....	2.00

Note: Tuition payable by non-residents and foreign-visa students is in addition to fees required of other students.

Non-Residents

Tuition

\$25.00 per unit up to a maximum of \$370 per quarter for 15 units or more

Foreign-visa students (as prescribed by regulations)

Tuition

\$13.50 per unit up to a maximum of \$200 per quarter for 15 units or more

Summer Session Fee

Per quarter unit of credit.....	16.00
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Special Fees

Credential fee.....	20.00
Late registration	5.00
Change of program after filing date.....	1.00
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 (academic year)	
Regular student	27.00
Limited student (6 quarter units of credit or less).....	12.00
Two-wheeled vehicle25% of regular or limited student fee	
Each alternate in addition to first vehicle.....	3.00
Summer session	5.00
Check returned for any cause.....	2.00
Transcript of academic record (first copy free).....	1.00

Refund of Fees

Students registered for credit or audit who withdraw or change their program from 15 or 10 units to 5 units may apply for refund. Application should be made at the Office of the Registrar within the first fifteen days of the quarter. A \$10 processing fee will be withheld on the refund of the material and service fee. A \$5 fee will be withheld on the refund resulting from the reduction of the student load from 15 or 10 units to 5 units.

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

Estimated Costs per Quarter

It is estimated that resident students pay from \$30 to \$40 each quarter for books and \$44.50 for fees plus parking costs. Students who live away from home pay from \$130–\$150 each quarter for room rental and from \$225–\$300 for board and incidentals (exclusive of transportation).





REGISTRATION PROCESS

All students who register at California State College, San Bernardino in resident study for either the fall, winter or spring quarter must first be admitted to the College by the Office of Admissions.

No student may attend classes until his registration has been completed.

Registration is complete only when official programs are properly filed and all fees are paid. Students are required to make all payments on the regularly announced days.

Students are granted credit only for those courses in which they are formally registered and are responsible for completing all courses entered on their official 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, includes the registration schedule, procedure for registration, fees, classes offered by hours and instructors, and other pertinent registration information. The schedule is available several weeks in advance of registration each quarter and may be purchased at the College Bookstore.

Classification of Students

Students are classified each quarter according to the following:

New Students. Students who have never enrolled at the College in a regular quarter (excluding summer session students) and who have been admitted for the new quarter.

Readmitted Students. Students who have been absent from the College for two or more full quarters (excluding summer session), or who have attended another college during their absence. These students must apply and be readmitted to the College by the Office of Admissions.

Continuing Students. Students who were previously enrolled in this College in a regular quarter (excluding summer session) and who have not been absent from the College for more than one complete quarter (excluding summer session) and who have not attended another college or university during their absence from the College.

Full-Time. Full-time students are classified as follows:

1. For parking and ASB fee purposes, students registering for more than 6 quarter units of credit.
2. For certification under the Veterans Readjustment Benefits Act of 1966 (Public Law 89-358), undergraduate students registering for 14 quarter units or more of credit.

3. For all other purposes, undergraduate students registering for 15 quarter units or more, unclassified graduate students registering for 15 quarter units or who plan to complete their course objective in one year.

Part-Time. Students registering for less than 15 quarter units of credit, except as noted above.

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:

<i>Status</i>	<i>Units Earned</i>
Lower Division	
Freshman.....	0– 44.9 quarter units
Sophomore.....	45– 89.9 quarter units
Upper Division	
Junior.....	90–134.9 quarter units
Senior.....	135 quarter units or more
Graduate.....	Holding baccalaureate from an accredited college

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 only upon written petition to their division chairman. No student may petition for such permission if his overall grade-point average is less than 3.0 and his grade-point average for the previous term is less than 3.0.

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 Instruction 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 Instruction, 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 5 and 6, 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. Applications for courses dropped or added require a \$1.00 change-of-assignment fee.

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.

Dropping Courses

The following regulations govern withdrawal from classes:

If the change-of-assignment card is completed before the last day to withdraw without penalty for unsatisfactory work (see the College

calendar), no grade is awarded and no record of registration in the course appears on the student's transcript;

If the change-of-assignment card is completed after that date, the recorded grade will be *W*, or, if the student is failing when he withdraws, *WF*.

If a student drops a course without completing a change-of-assignment card (an unapproved withdrawal), a grade of *F* is reported by the instructor in the course.

Withdrawal from the College

Students who find it necessary to leave the College before completion of a term should complete the withdrawal-from-college forms available in the Office of Admissions and Records.

The grading policy for students withdrawing from the College is the same as for students dropping courses.

Grades

The grade symbols used at the College are as follows:

<i>Grade Symbol</i>	<i>Explanation</i>	<i>Grade Points Per Quarter Hour Unit</i>
<i>A</i>	Excellent	4
<i>B</i>	Good	3
<i>C</i>	Average	2
<i>D</i>	Passing	1
<i>F</i>	Failure	0
<i>W</i>	Withdrew	0
<i>WF</i>	Withdrew, Failing	0
<i>I</i>	Incomplete	0
<i>CR</i>	Credit	0

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. (An *F* is the recorded grade when a student is registered for a course and placed on the class roster and then drops out of the course unofficially, that is, without filing a change-of-assignment card in the Office of the Registrar.) A course completed with an *F* or *WF* is counted as attempted work and is included in computing the student's 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 regular term. Incompletes earned in summer session must be completed in the next quarter of resident study or the next resident summer session, whichever occurs first. A student may petition the dean of instruction 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 or F grade. The grade earned in the second or last enrollment will be used, exclusively, in determining the grade points earned for that particular course. Courses may be repeated more than once only by permission of the Dean of Instruction.

Final Grade Report

Final grade reports may be picked up at the Office of Admissions and Records or 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.

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/or 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 instruction. Permission to take a final examination with a different section in the same course may be granted by the dean of instruction 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.

Comprehensive Examinations

Each student may be required to pass a comprehensive examination in his field of major concentration as a prerequisite to the degree. Departmental degree requirements are stated in the appropriate sections of this catalog.

The examination is designed to encourage the student to synthesize the material of his major field; it is not necessarily related to specific

course work undertaken by the student. The examination may be written or oral or both, and may be conducted by examiners from other institutions.

Students who fail to pass the comprehensive examination may be given a second opportunity.

Students who need only the comprehensive examination to complete the requirements for their degree may register for the examination during the pre-registration or registration period of the term in which they take the examination. No fee is required.

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.

No fee is charged for these examinations. The grade in the examination 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 provisions:

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-time 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 examination is requested, except where permission is granted by the division 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 language challenged upon entrance to the College.
5. A student may repeat an examination for credit only upon approval of the dean of instruction.

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

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-

fornia community colleges or in any combination of California community colleges and this College, may, for purposes of meeting graduation 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.

Postgraduate Credit for Senior Students

Senior students who need fewer than three courses to graduate may be permitted to enroll for post-graduate credit during the final term of their senior year. Post-graduate 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 instruction.

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

Undergraduate Students. The College will provide the following 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 or 109A. This information need be submitted only once each academic year in September, or the first quarter for which the student enrolls.

The College will certify a student's enrollment status as of the beginning of instruction for the quarter, his class level in college, the beginning date of the academic year and the date of expected graduation. (Full-time enrollment is defined by the College as being registered in 15 or more units exclusive of audit or repeat courses for which credit has been previously earned.)

A student should complete 45 quarter hours in the twelve-month period following first enrollment at the College in order to continue to be eligible for the student deferment. At the end of twelve months after the initial SSS 109 forms have been submitted to the Office of the Registrar for certification, the Office of the Registrar is required to notify the student's draft board of the number of units the student has completed.

In addition to the SSS Form 109 sent by the College, the student should request his draft board to send him the additional SSS Form 104 which he should complete and return to his draft board.

If requested to do so by newly admitted students, the College will report acceptance for admission.

Unclassified Graduate Students. The College will provide the following information to the Selective Service System upon written request of the student. This information will be submitted to the Selective Service System on its Student Certificate SSS Form 103. This information will be submitted only once each academic year.

The College will certify appropriately when the student enters the fifth-year teaching credential program leading to the California teaching credential. In order to receive certification, he must have applied and been accepted by the Department of Education for the teaching credential program.

The College will report the student's graduate objective, major, and expected date the objective will be met.

A student should complete the requirements for the teaching credential during the fifth year of work. At the end of the fifth year of work, the Office of the Registrar is required to notify the student's draft board that the student has or has not completed the work for the California teaching credential.

The College will report acceptance for admission in unclassified status of newly admitted graduate students to the College who have not, as yet, enrolled for classes, only if requested.

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.

The College does not request deferments for students; it is the responsibility of the student to initiate the request. New written requests must be made each academic year.

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:

Undergraduates

Full-time.....	14 quarter units
$\frac{3}{4}$ -time.....	10-13 quarter units
$\frac{1}{2}$ -time.....	7-9 quarter units
Less than $\frac{1}{2}$ -time.....	See Registrar's Office

Information for Issuance of Transcripts

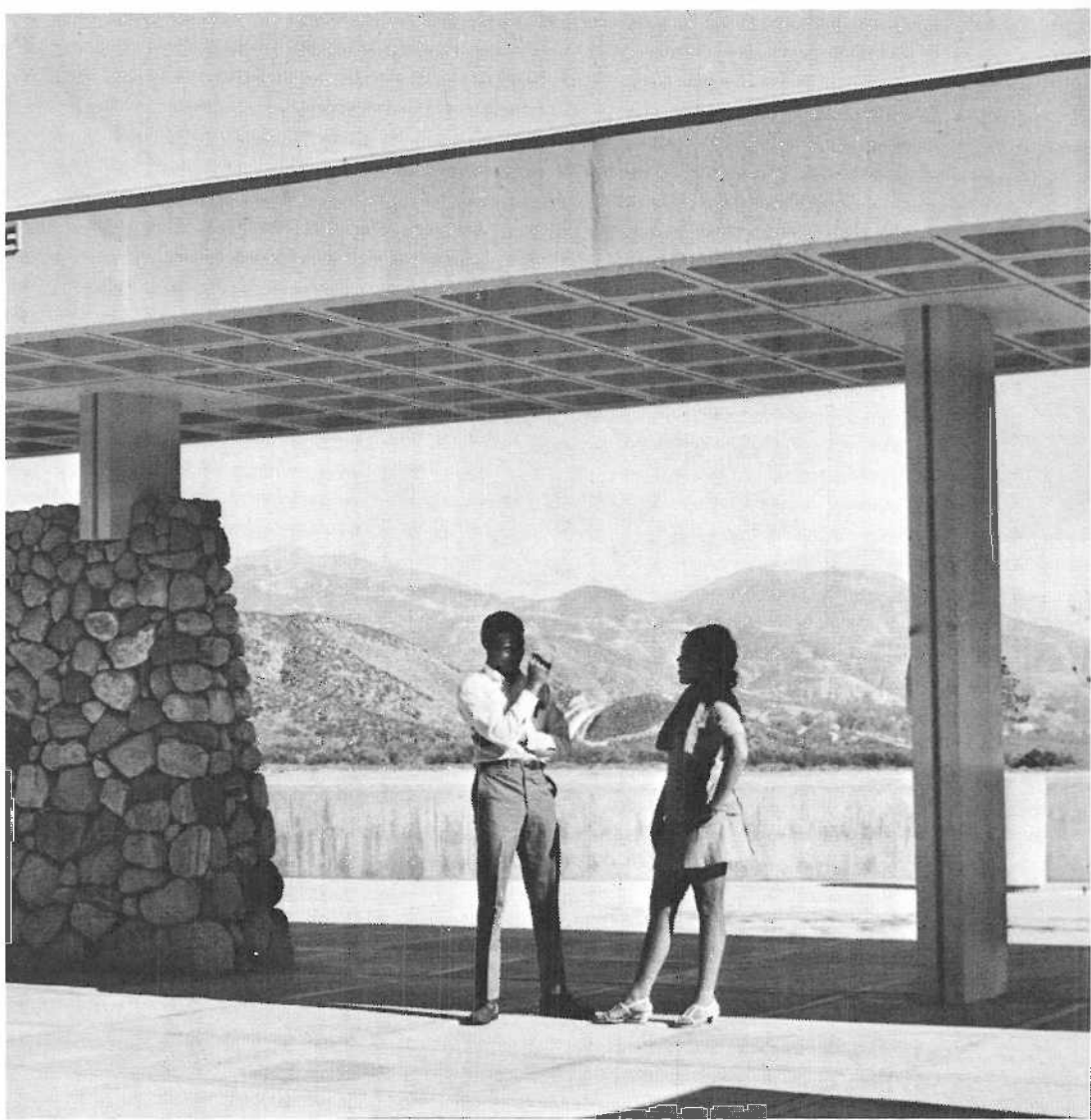
All transcripts will be complete as of the date of issuance showing all work attempted at the California State College, San Bernardino.

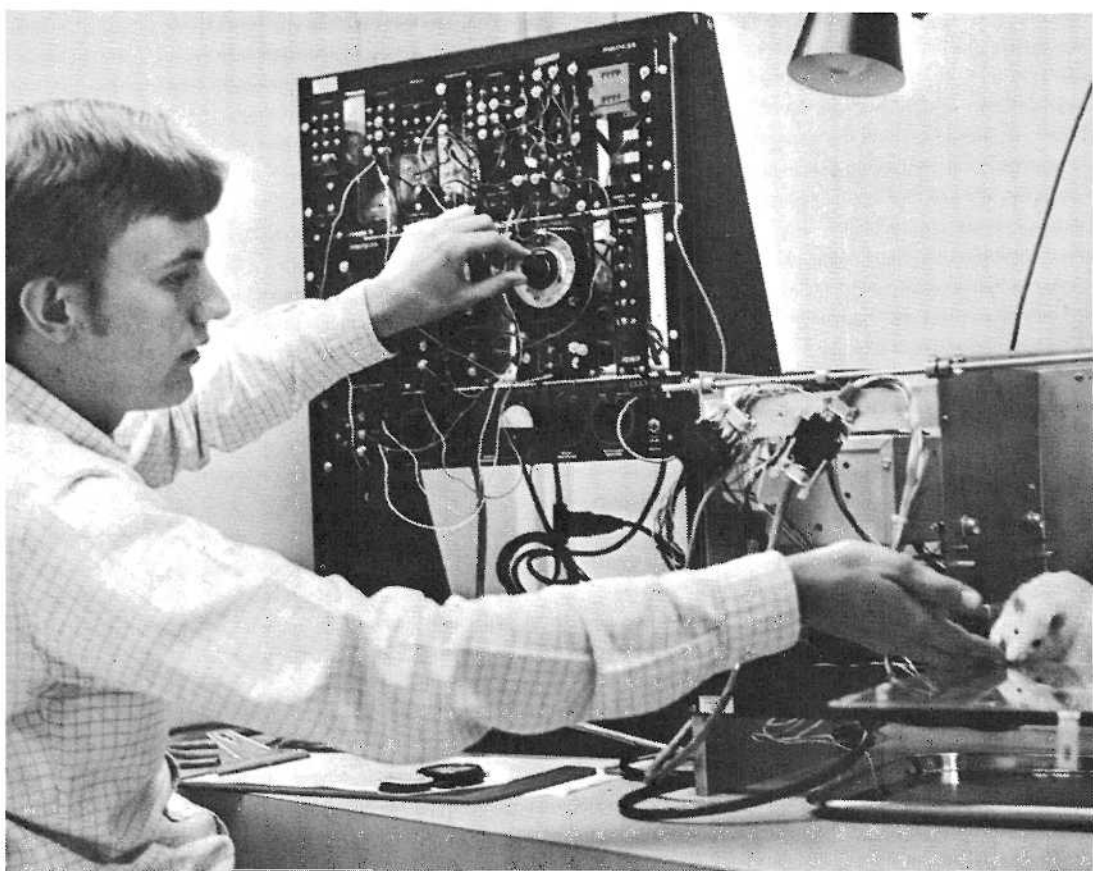
Transcripts which include final grades for that quarter will be sent three weeks after the last day of the quarter.

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

The first copy of a transcript is issued free of charge; all others 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 a minimum of 18 full-term courses in General Studies which shall be distributed in the following manner:
 - a. Composition G.S. 101
 - b. Natural Sciences G.S. 108 or 109
G.S. 120 or 122
G.S. 125 or 126
G.S. 130 or 131
 - c. Humanities G.S. 170, 180, 190, 200
 - d. Social Sciences Five from the following:
G.S. 140, 142, 144, 146, 150 (or 155),
160 (or 155)
 - e. G.S. Senior Seminars Any one full-term course
 - f. Foreign Language Three full-term courses or equivalent
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 should 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.

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. 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.

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

Dean's List. A full-time student who earns a grade-point average of 3.5 or above in an academic quarter will be placed on the Dean's List.

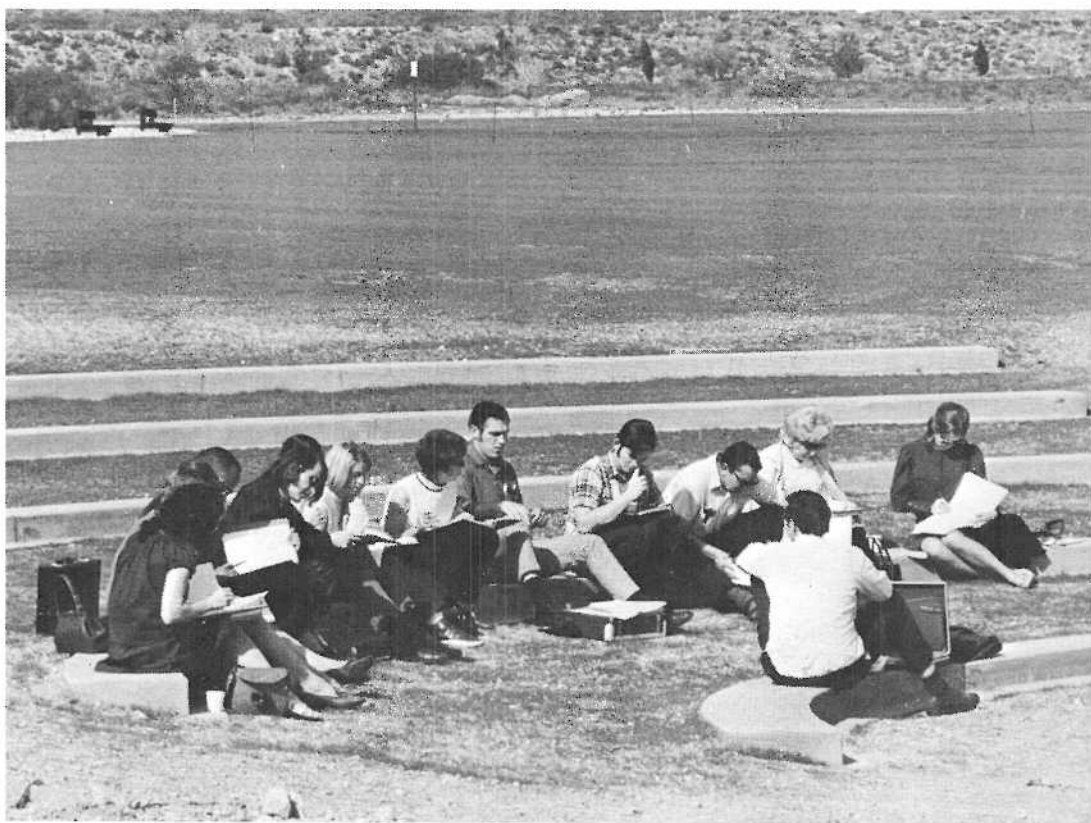
Graduation with Honors. Honors are awarded to students achieving a cumulative grade-point average in all college work of 3.5 or above, or a grade-point average of 3.5 or above for 75 quarter units at California State College, San Bernardino.

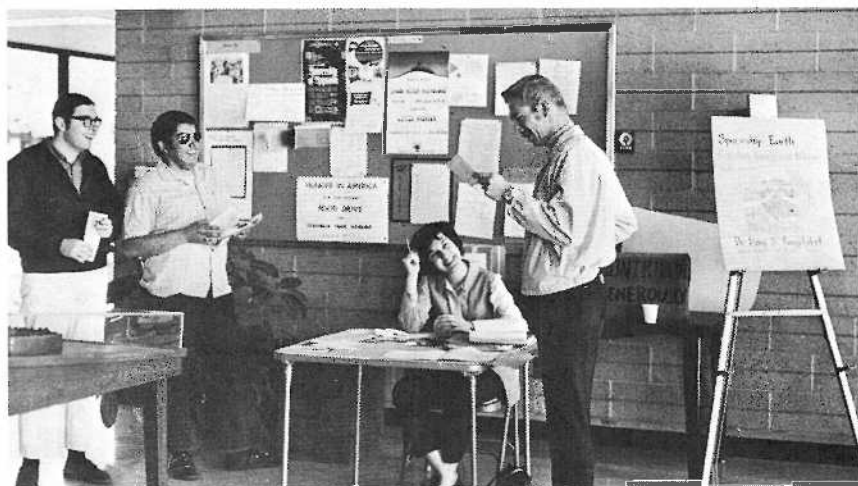
Graduation with Highest Honors. Highest Honors are awarded to students achieving a cumulative grade-point average of 3.75 or above, in all college work, including 75 quarter units at California State College, San Bernardino.

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.





STUDENT LIFE

Counseling and Testing

The Counseling and Testing Center aids students in developing their personal resources and in making full use of the opportunities for growth during 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.

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 registered students are members of the Associated Student Body of California State College, San Bernardino and are encouraged to participate in its activities. The Associated Students are governed by an executive branch (ASB Cabinet), a legislative branch (ASB Senate) and a Judicial Board.

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 retreat for new students, an all-campus carnival sponsored by the Inter-Club Council, the Christmas dance, a Christmas choral concert, Valentine dance and the annual 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 student Cultural Affairs Committee sponsors readings, plays, shows and other events that are student produced. 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 which has an activity to present.

Housing

Unique on-campus residence halls are planned for 400 students beginning in the fall quarter of 1972. A suite arrangement will be utilized whereby two people will share a bedroom and ten students will share a living room, a study room and a bathroom. The eight residence halls will also have recreation and socializing areas.

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. A permanent Commons, with full dining facilities, will be built upon the availability of state funds.

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 federal and state-sponsored guaranteed loan program also is available. Short-term loans are available to assist students confronted with a financial emergency.

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 May 1. 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 academic promise 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 amounts vary and are typically about \$300.

Sponsored Scholarships and Awards—The Social Lites of San Bernardino annually award a scholarship to an entering student with need for assistance. Applicants must have attended a San Bernardino public high school or the San Bernardino Valley College.

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.

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.

Student Health Center

The purpose of the Student Health Center is to maintain a state of optimum physical and emotional health. To this end the Student Health Center provides those 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 physiotherapy services (by referral through the Student Health Center).

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 highly 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 growth and development; further the community interests of California State College, San Bernardino; establish mutually beneficial relationships between the College and its alumni; and promote the educational goals set forth by 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

The California State Colleges offer programs of study for a full academic year at a number of distinguished universities abroad. Students study and live under the same conditions as students at the cooperating universities, but remain enrolled in the California State Colleges, where they may apply their work toward degree requirements in accordance with college regulations. The programs, which are voluntary, cooperative and systemwide in nature, are designed as bona fide academic undertakings with clearly defined educational and professional objectives.

For 1970-71, the cooperating universities are: University of the Andes, Bogota, Colombia; University of Aix-Marseilles, France; Free University of Berlin and University of Heidelberg, Germany; University of Ghana; The Hebrew University of Jerusalem and Tel Aviv University, Israel; University of Florence, Italy; Waseda University, Tokyo, Japan; University of Granada and University of Madrid, Spain; University of Stockholm and Uppsala University, Sweden; and National University, Taiwan.

Students are selected on the basis of academic, linguistic and personal qualifications. The criteria are:

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

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

Approximate cost to the student during the 1970-71 year, including round-trip transportation from San Francisco, room and board for the

academic year and medical insurance, is \$2,300 for Colombia, France, Germany and Spain; \$2,000 for Israel and Taiwan; and \$2,500 for Ghana, Italy, Japan and Sweden.

Application for the 1971-72 academic year should be made early in the fall semester of 1970. Detailed information may be obtained from the Office of International Programs, The California State Colleges, 1600 Holloway Avenue, San Francisco, California 94132.



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 makes available to varied audiences of part-time students opportunities for college-level study, primarily at off-campus locations, at times and places most convenient to them.

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

Courses offered only through Extension are numbered in the 800-series and confer Extension credit. A limited number of credits applicable toward degrees also may be earned through Extension study, when upper-division courses are offered from the regular curriculum.

Summer Session

Six-week summer sessions and shorter post-session workshops 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 session. 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.

A full summer schedule is two, five-unit courses. In a six-week session, one may earn 10 quarter units or $6\frac{2}{3}$ semester hours of academic credit.

Late-Day Classes

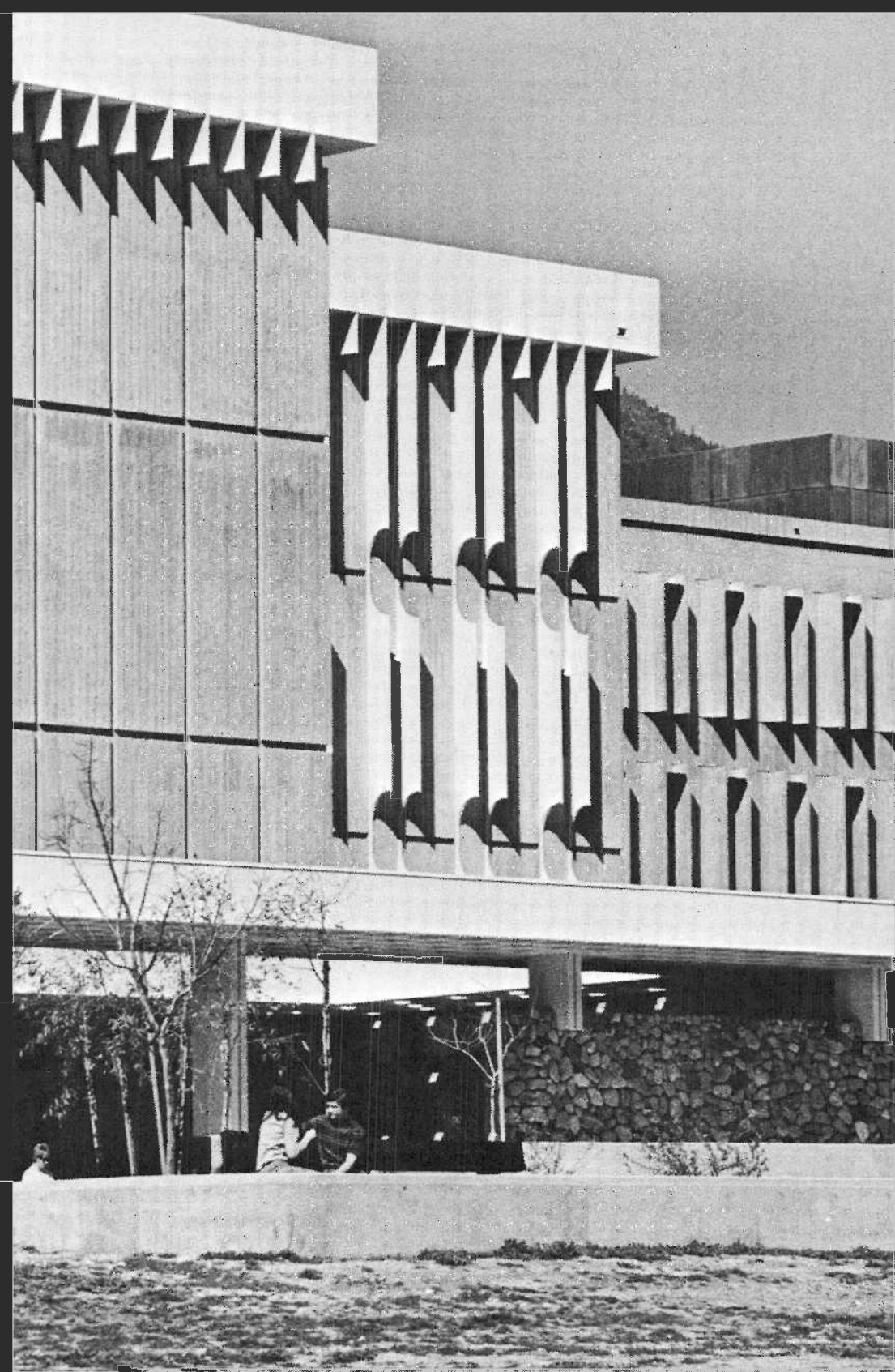
Classes offered on campus in the late afternoon and evening as part of the regular College instructional program are frequently so scheduled for the convenience of teachers, businessmen and others in the

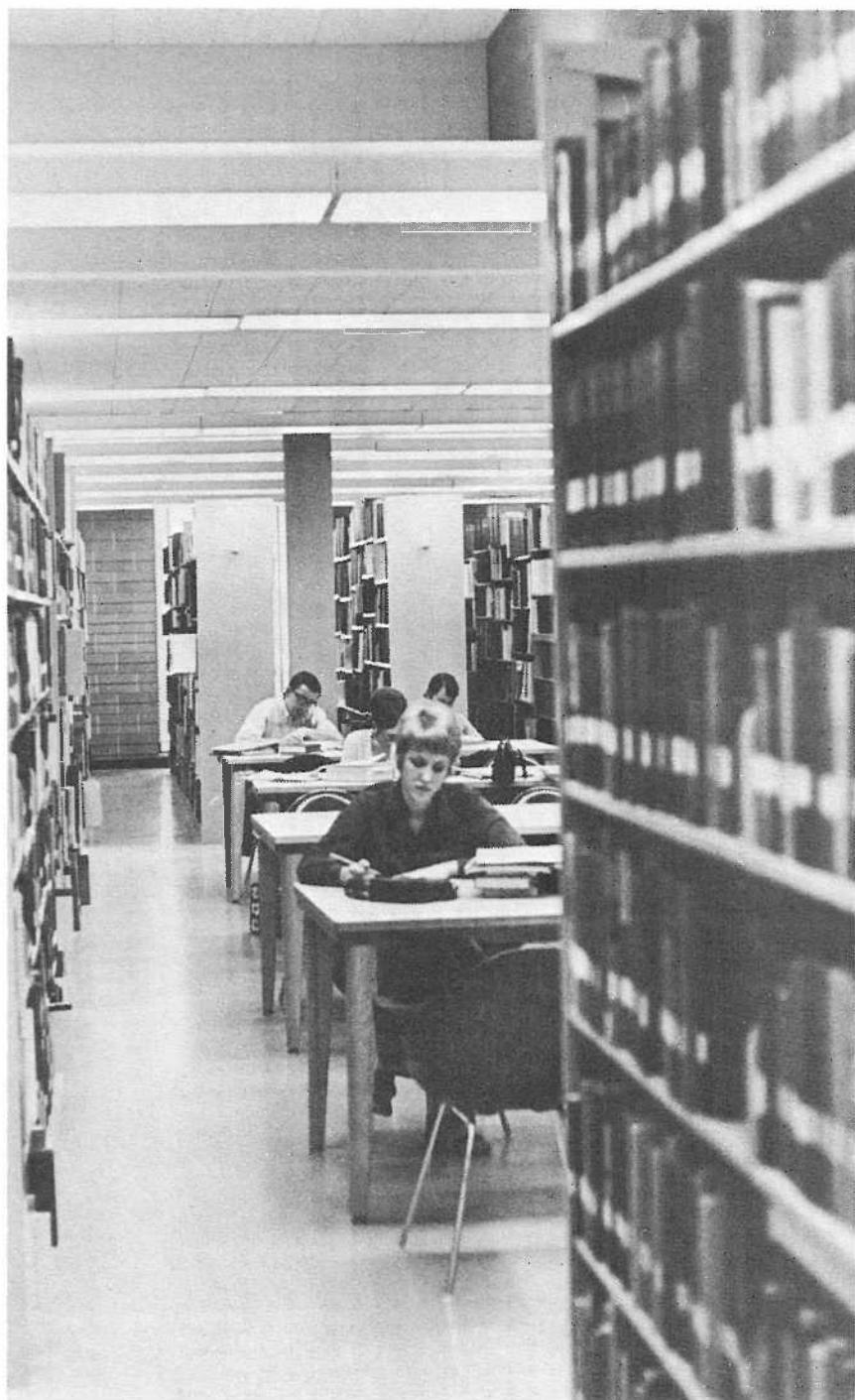
community who wish to pursue a degree program while working full-time.

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.

Further development of opportunities for part-time students to complete bachelor's degree programs by attending late-day classes is being coordinated by 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.





THE ACADEMIC PROGRAM

Divisions of the College

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

<i>Humanities</i>	<i>Natural Sciences</i>	<i>Social Sciences</i>
Art	Biology	Anthropology
Drama	Chemistry	Business
English	Geology	Administration
Foreign Languages	Mathematics	Economics
Music	Physics	Geography
Philosophy		History
		Political Science
		Psychology
		Sociology

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 $3\frac{1}{2}$ semester-hour course.

1- 99	Non-credit courses
100-299	Lower-division courses designed primarily for freshmen and sophomores
300-499	Upper-division courses
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.

Foreign Language Competency

Three courses in a foreign language or equivalent proficiency are required for graduation. Students are directed to the announcement of departmental programs for any additional language requirements.

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 1970-71 in the fields listed below.

Division of Humanities

Art
Drama
English
French
Humanities
Music
Philosophy
Spanish

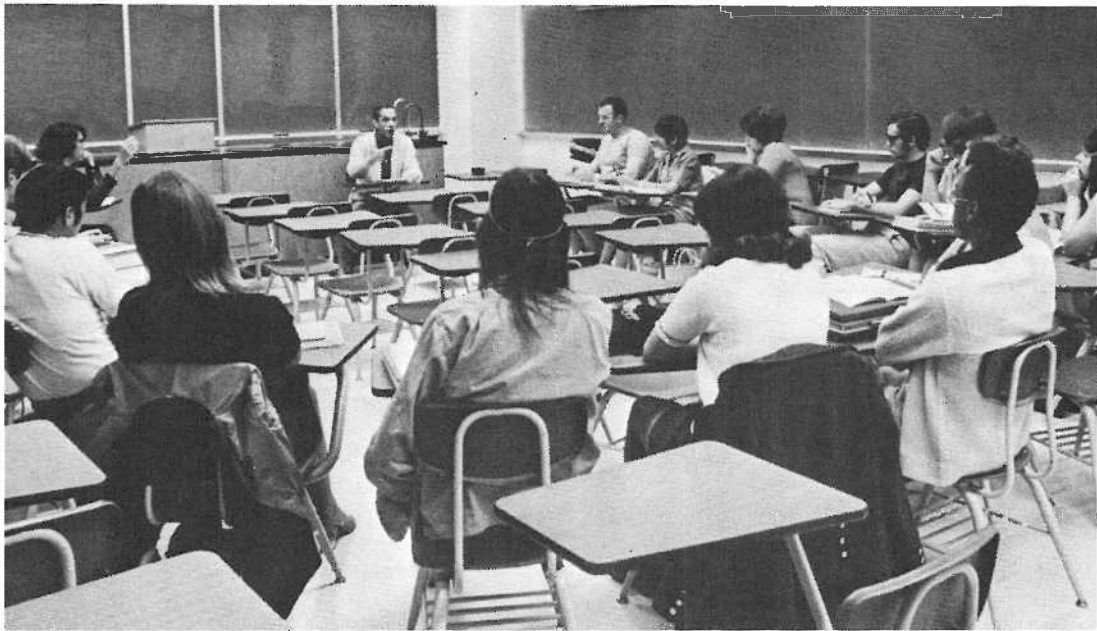
Division of Natural Sciences

Biology
Chemistry
Mathematics
Physics

Division of Social Sciences

Anthropology (for freshmen, sophomores and juniors only)
Business Administration
Economics (for freshmen, sophomores and juniors only)
History
Political Science
Psychology
Sociology
Social Sciences





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.

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. 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. 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.

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. *Prerequisite: Elementary high school algebra.*

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. Eligibility for G.S. 131 is determined by student performance on qualifying examinations, given at the beginning of each term, covering high school geometry, algebra and trigonometry. Students earning a grade of C or better in Mathematics 101 or its equivalent are exempted from the examinations.

General Studies

- 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.
- 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.

General Studies

- 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. 403. SENIOR SEMINAR: TECHNOLOGY VERSUS THE PASTORAL IDEAL IN AMERICAN LITERATURE.** A study of the impact of industrialism on the American ethos as seen in such representative works of fiction and non-fiction as *Walden*, *The Gilded Age*, *Huckleberry Finn*, *The Education of Henry Adams*, *The Octopus*, *The Machine in the Garden*, and *The American Adam*. 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.

General Studies

- 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. 424. SENIOR SEMINAR: SEPARATION AND ASSIMILATION IN AMERICA.** An examination of the conflict, challenges and contributions of ethnic and racial minorities throughout the course of American history. Offered by the Division of Social Sciences.
- 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 of 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.

ANTHROPOLOGY

The Anthropology major will not be available to seniors during 1970-71. 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. Man's biological and social evolution through time.

200. CULTURAL ANTHROPOLOGY. The basic concepts and approaches used by anthropologists in the study of peoples and societies.

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

305. NEW WORLD ARCHEOLOGY. 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.

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.

400. PEOPLES OF AUSTRALIA

Anthropology

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.

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.



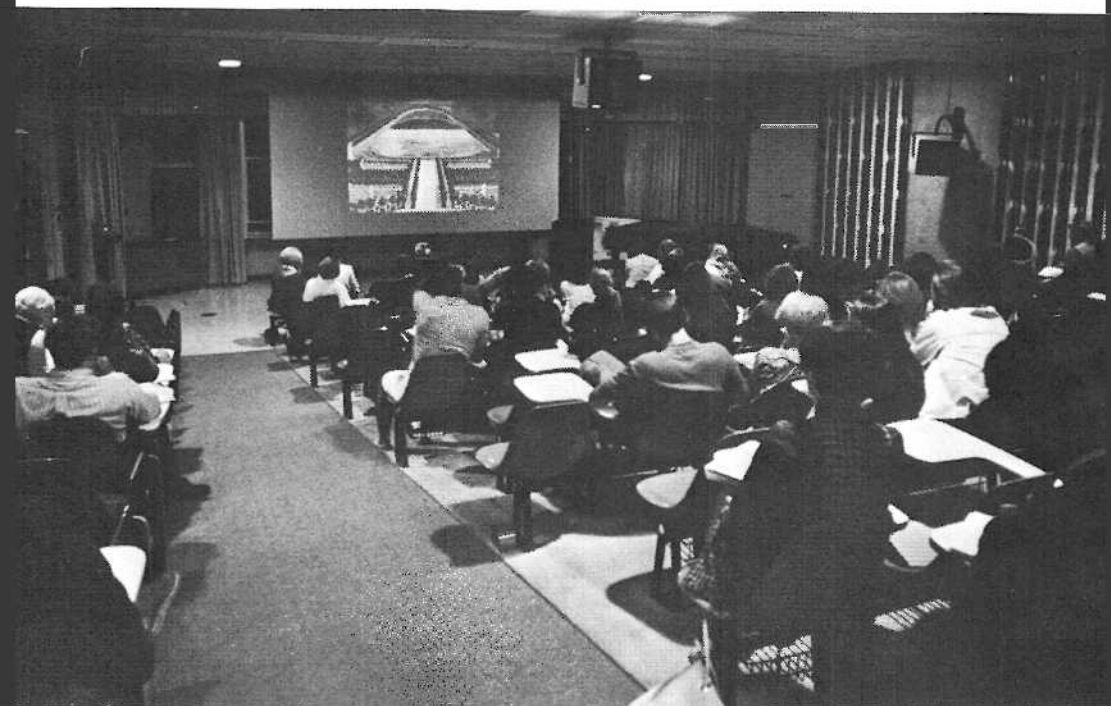
425. DIRECTED INDIVIDUAL STUDY. Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.

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.*

510. SEMINAR IN FRENCH LITERATURE.

530. STUDIES IN LITERARY FIGURES AND GENRES. The study of individual writers and genres such as Proust, Moliere 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.*



GEOGRAPHY

No major program in Geography will be offered in 1970-71. Courses listed below will be offered as electives in support of other major programs.

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. Interrelationship involving climate, topography and the hydrosphere are stressed.

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

300. REGIONAL ANALYSIS: WORLD PATTERNS. Geographic patterns of human development with special emphasis on regionalization.

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.

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.

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

555. INDEPENDENT STUDY.

GERMAN

No major program in German will be offered in 1970-71. 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.*

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.*

104. INTERMEDIATE GERMAN II. Continuation of German 103.

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.*

HISTORY

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.

200. UNITED STATES HISTORY TO 1877. A survey of the history of the United States from the colonial beginnings to 1877.

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.

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.

History

- 352. THE EARLY REPUBLIC.** A history of the United States from the Confederacy period through the administration of Van Buren. *Prerequisite: History 200 or consent of the instructor.*
- 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 between 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.
- 370. HISTORY OF CALIFORNIA.** The political, economic, and social development of California from Spanish times to the present.
- 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.
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 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.
- 480. SUB-SAHARAN AFRICA.** A study of the African past, including a survey of the major African civilizations, the European colonial empires and the development of modern African nationalism.
- 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.

History

- 540. CONSTITUTIONAL HISTORY OF THE UNITED STATES.** A history of American constitutional development from English and European origins to the present day. *Prerequisites: History 200 and 201, 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.
- 560. HISTORY OF THE AMERICAN WEST.** A survey of the western expansion of the American nation.
- 592. SEMINAR IN MODERN EUROPEAN HISTORY.** An intensive study of some phase of modern Europe to be developed by the instructor with the class. May be repeated for credit, with consent of instructor.
- 594. SEMINAR IN UNITED STATES HISTORY.** An intensive 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 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.

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.*

MATHEMATICS

Requirements for the major: nine courses in Mathematics including Mathematics 201, 202, 203, 311, 312 and 331 and three upper-division courses in Mathematics selected in consultation with the advisor. Physics 202 and 203 are recommended for Mathematics majors. Students planning to earn a secondary teaching credential should include Mathematics 539 and 568 in their major program. A Mathematics major may substitute one General Studies Senior Seminar for a lower-division General Studies course in the same field.

Mathematics 555 (Independent Study) will be offered each term. 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, and 331 or 539.

101. PRE-CALCULUS MATHEMATICS. Inequalities; absolute value; algebraic, logarithmic, trigonometric and exponential functions; miscellaneous topics. Eligibility for Mathematics 101 will be determined by qualifying examination given at the beginning of each term. The student is expected to have a background equivalent to that obtained from a year of plane geometry and two years of high school algebra.

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.*

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. *Prerequisite: 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. *Prerequisite: G.S. 130 or its equivalent.*

Mathematics

- 311. INTRODUCTION TO ANALYSIS AND ABSTRACT ALGEBRA I.** Modern algebra and the foundations of calculus. Axiomatically defined real number system and its subsystems; mappings, relations, and abstract systems including groups, rings, integral domains, and fields. *Prerequisite: Mathematics 203 or the consent of department chairman.*
- 312. INTRODUCTION TO ANALYSIS AND ABSTRACT ALGEBRA II.** Modern algebra and the foundations of calculus. Construction of the complete ordered field of real numbers, Cauchy sequences, topology of the real line, properties of continuous functions, the Riemann integral, elementary functions. *Prerequisite: Mathematics 311 or consent of the department chairman.*
- 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 the department chairman.*
- 401. 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 the department chairman.*
- 402. TOPICS IN APPLIED MATHEMATICS II.** The study of topics in mathematics applicable to the physical sciences. *Prerequisite: Mathematics 401.*
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 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. *Prerequisite: Mathematics 203 or consent of the department chairman.*
- 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. *Prerequisite: Mathematics 444 with a grade of C or better or consent of the department chairman.*
- 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. FOUNDATIONS OF GEOMETRY.** The foundations of Euclidean and non-Euclidean geometries. Recommended for prospective high school mathematics teachers. *Prerequisite: Mathematics 312 or consent of department chairman.*
- 551. ADVANCED CALCULUS I.** The calculus of vector functions, differentiable functions, transformations, implicit functions, extrema, multiple integrals, line and surface integrals. *Prerequisites: Mathematics 312 and 331 or consent of the department chairman.*

- 552. ADVANCED CALCULUS II.** Uniform convergence, computation with series, improper integrals, functions represented by integrals, Fourier series. *Prerequisite: Mathematics 551 or consent of the department chairman.*
- 555. INDEPENDENT STUDY.** An independent study course for senior mathematics majors. *Prerequisites: Mathematics 312, 331 and consent of the department.* In exceptional cases one or both prerequisite courses may be waived.
- 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. *Prerequisites: Mathematics 312 and 331 or consent of the department chairman.*
- 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 312 or consent of the department chairman.*
- 568. NUMBER THEORY.** Topics from the theory of numbers including congruences, Diophantine equations, and a study of prime numbers. *Prerequisite: Mathematics 312.*
- 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.*

MINORITY STUDIES

The College is developing a program of studies concerned with the origin, nature and problems of minorities.

The attention of interested students is called to the following courses.

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 410. 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.

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.

Minority Studies

HISTORY 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 552. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES SINCE 1860. A history of American civilization since 1860, including the development of American society, thought and culture.

MUSIC 330. STUDIES IN AMERICAN MUSIC. Emphasis on jazz, folk music and contemporary popular forms. Non-majors are encouraged to enroll.

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. Non-majors are encouraged to enroll. May be repeated for credit.

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. THE CONTEMPORARY BLACK REVOLT. The Civil Rights movement in terms of the non-violent approach, the later Black Power mood, the Black nationalist groups and white participation in the movement.

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

SOCIAL SCIENCE 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.

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. 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. A study of the 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, social class differences in Mexican-American communities, Mexican-American social mobility.

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. Selected works of Mexican literature to the present day. Emphasis on the novel, drama, poetry and the essay.



MUSIC

Requirements for the major: twelve full-term courses or their equivalents, including Music 111, 112, 113, 314, 315 and a minimum of five units of applied music, three at the upper-division level. The remaining six courses are to be selected from the department offerings. The total requirement, however, may include no more than 15 units in applied music.

All students majoring in music are required to take six repertory listening examinations—a different one given at the end of each quarter—and to participate in the department's informal tutorial reading program.

Requirements for a minor: Music 111, 112 and four other full-term music courses or their equivalents. A maximum of five units of applied music may be counted toward the minor. The successful completion of three listening examinations is required.

- 111. THEORY I.** The 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.** A continuation of Theory I.
- 113. THEORY III.** A continuation of Theory II.
- 314. THEORY IV.** Melody, harmony and texture as they relate to musical structures; the extension of tonality and its eventual evolution into 20th Century practice; analysis of representative compositions; continuation of ear and keyboard training.
- 315. THEORY V.** A continuation of Theory IV.

The following courses, 320 through 325, are concerned with musical ideas and styles, as well as the social and aesthetic factors that have influenced the sounds composers ultimately preferred and organized. The courses are not sequential and non-majors are encouraged to enroll.

- 320. TWENTIETH CENTURY MUSIC.**
- 321. MUSIC IN THE CLASSIC ERA.**
- 322. MEDIEVAL AND RENAISSANCE MUSIC.**
- 323. NINETEENTH CENTURY MUSIC.**
- 324. BAROQUE MUSIC.**
- 325. OPERA.**
- 330. STUDIES IN AMERICAN MUSIC.** Emphasis on jazz, folk music and contemporary popular forms. Non-majors are encouraged to enroll.

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.
- 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.
- 416. SEMINAR IN ELECTRONIC COMPOSITION.** The techniques of electronic composition. Experimentation based on individual abilities and preferences. Non-majors are encouraged to enroll.
- 417. SEMINAR IN COMPOSITION.** *Prerequisite: consent of instructor.* May be repeated for credit.
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for one or two units of credit. Course open to seniors, who, after completion of their graduation requirement check, require one or two units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 450. SEMINAR IN PERFORMANCE PRACTICE.** The role of the performer in various periods, with emphasis upon improvised techniques. Content will vary. *Prerequisite: consent of instructor.*
- 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 program.*
- 527. SPECIAL PROJECTS.** Intensive, individual projects in orchestration, conducting and score reading, theory and history. *Prerequisite: consent of instructor.*
- 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.
- 540. SEMINAR IN MUSIC HISTORY AND LITERATURE, OR THEORY.** Content will vary. *Prerequisite: consent of instructor.*

APPLIED MUSIC

Music majors are required to take a minimum of five units (one per term) of applied music, at least three at the upper-division level. A maximum of fifteen units may be applied to the total requirement. Potential music majors and students entering from other schools will receive placement auditions during the first week of classes. Courses in applied music are open to all students without prerequisite. Credit is available for music majors only.

A special fee will be charged for individual instruction in most areas of applied music. Specific information regarding fees and course offerings may be obtained at the Division of Humanities Office prior to registration each term.

- 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: Six quarters of Music 240 or by placement audition.*

441. ADVANCED KEYBOARD INSTRUMENT. *Prerequisite: Six quarters of Music 241 or by placement audition.*

442. ADVANCED STRING INSTRUMENT. *Prerequisite: Six quarters of Music 242 or by placement audition.*

443. ADVANCED WIND INSTRUMENT. *Prerequisite: Six quarters of Music 243 or by placement audition.*

444. ADVANCED BRASS INSTRUMENT. *Prerequisite: Six quarters of Music 244 or by placement audition.*

445. ADVANCED PERCUSSION INSTRUMENT. *Prerequisite: Six quarters of Music 245 or by placement audition.*

310. PERFORMANCE ORGANIZATIONS. One unit credit. Participation in chamber orchestra, chamber ensembles, chamber singers or chorus. Open to all students with consent of instructor. 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. Open also to faculty and staff.

PHILOSOPHY

Requirements for the major: a minimum of eleven upper-division courses in Philosophy. These consist of readings in the history of Philosophy, to be taken in sequence, Philosophy 300, 302, 304, 306; five different systematic fields, Philosophy 312, 350, 360, 370, 390; two courses reserved for the first term of the senior year, Philosophy 400, 498.

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.

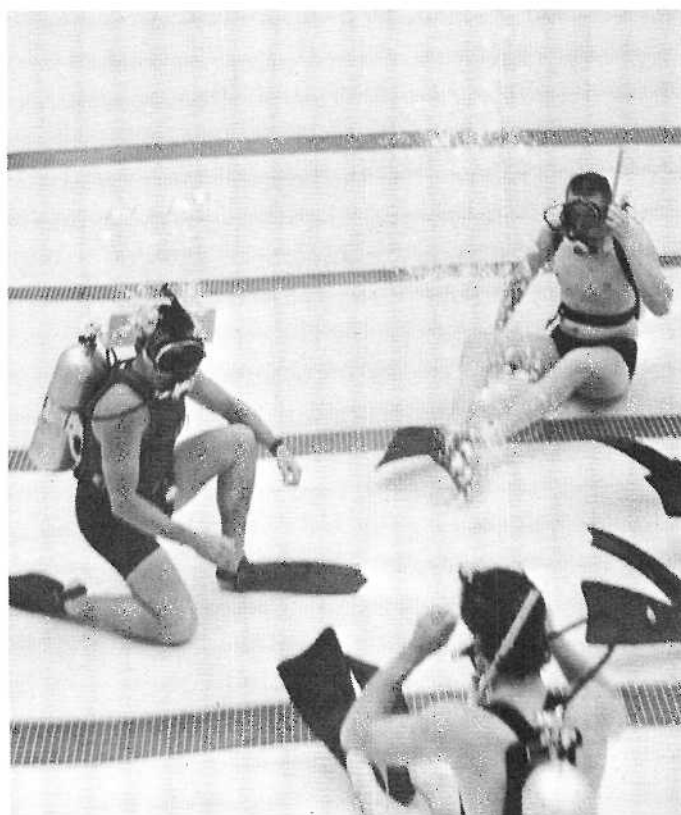
A comprehensive examination will be required in the next-to-last term of the senior year.

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.
- 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 Kant.
- 306. READINGS IN THE HISTORY OF PHILOSOPHY IV.** Nineteenth- and twentieth-century philosophy, Hegel to the present.
- 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 interrelations 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.
- 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.

Philosophy

- 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, through Kierkegaard, Nietzsche, Buber, Tillich 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.
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 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.
- 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.*



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; 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 through 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.

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.*

Art

- 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.*
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 429. SPECIALIZED STUDIO PROJECTS.** Study and experimentation developed in consultation with the instructor from the student's individual abilities and needs. *Prerequisite: consent of instructor.*
- 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.*

BIOLOGY

Requirements for the major: a minimum of nine courses in Biology, including 200, 203, 401, 403, 405 or 406, 407, 409 and at least 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.

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

Biology majors shall fulfill their General Studies natural science requirements by taking G.S. 126 and either G.S. 120 or G.S. 122.

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.

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. *Prerequisites: G.S. 109 and Biology 200.*

301. BIOLOGY OF THE INVERTEBRATES. The evolution of the invertebrate phyla with emphasis on major phylogenetic changes. Lecture and laboratory. *Prerequisites: G.S. 109 and Biology 200.*

302. BIOLOGY OF THE CHORDATES. Consideration of structural, physiological and ecological changes in the evolution of the chordate groups. Lecture and laboratory. *Prerequisites: G.S. 109 and Biology 200.*

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.*

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. *Prerequisites: G.S. 109 and Biology 200.*

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.*

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

Biology

- 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 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 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 203 and 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, Biology 200, Chemistry 302.
- 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. *Prerequisite:* Biology 203, or 301 or 302. Recommended: Completion of or concurrent enrollment in an elementary statistics course.
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 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. *Prerequisites:* Biology 200 and two quarters of organic chemistry or consent of instructor. May be repeated for credit.
- 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. *Prerequisites:* Chemistry 302 and Biology 401, or consent of instructor.

Biology

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.*

BUSINESS ADMINISTRATION

Requirements for the major: ten courses in Business Administration, including Business Administration 150, 152, 300, 305, 310, 320, 330 and three additional upper-division courses in Business Administration. Economics 100 and 102 and Mathematics 150 or Social Sciences 210 are also required.

Requirements for a minor in Business Administration: Economics 100 and 102, Business Administration 150 and 152 plus two upper-division courses selected in consultation with an advisor.

150. PRINCIPLES OF ACCOUNTING I. Basic concepts and procedures; the accounting contribution to managerial planning and control.

152. PRINCIPLES OF ACCOUNTING II. Continuation of Business Administration 150.

300. QUANTITATIVE BUSINESS ANALYSIS I. Mathematical tools utilized in the analysis of business problems; includes pertinent topics in set theory, functional analysis, linear algebraic systems, linear programming and differential and integral calculus. Course is taught from an applied viewpoint, without proofs. *Prerequisite: Mathematics 150 or Social Sciences 210 or consent of instructor.*

305. MARKETING MANAGEMENT. Management of the marketing function; decision-making regarding products, channels, pricing and promotion with concern for firm survival, profitability and growth.

310. FINANCIAL MANAGEMENT. Basic principles of financial management. The organization and development of the business enterprise. Techniques of financial decision-making are explored for liquidity management, financial forecasting, dividend policy, and selection of courses of capital. *Prerequisite: Business Administration 152 or consent of instructor.*

320. PRINCIPLES OF MANAGEMENT. The fundamentals of management with studies in planning, organizing, directing, coordinating and controlling business activity.

330. LEGAL ENVIRONMENT OF BUSINESS. The development of our legal system, the nature and source of law as it applies to business activity, statutes and leading cases involving business policies and the effect of public policies on the private enterprise system.

340. INTERMEDIATE ACCOUNTING I. Theory, practice and procedures used in accounting. Topics include business combinations, consolidated statements, branch accounting, fund accounting, government accounting, liquidations and bankruptcies. *Prerequisite: Business Administration 152 or consent of instructor.*

342. INTERMEDIATE ACCOUNTING II. Continuation of Business Administration 340.

350. COMMUNICATION IN BUSINESS. Techniques and methods of analysis and practical exercises in oral and written communication for administrative situations.

Business Administration

- 400. QUANTITATIVE BUSINESS ANALYSIS II.** Quantitative techniques of management science and their application to planning, decision-making and control situations in business. *Prerequisite: Business Administration 300 or consent of instructor.*
- 410. CONSUMER BEHAVIOR.** The nature and determinants of the complex behavior of consumers. Consumer attitudes, consumption and purchasing behavior will be analyzed. *Prerequisite: Business Administration 305 or consent of instructor.*
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 430. FINANCIAL THEORY AND ANALYSIS.** The effective utilization of capital in the business enterprise. Development of a general theory of financial management with application to the capital market, financial planning, capital budgeting, optimum capital structure, portfolio selection, and problems of expansion, reorganization, dissolution, mergers and consolidation. *Prerequisite: Business Administration 310 or consent of instructor.*
- 440. MARKETING RESEARCH.** Analysis of markets for products and services; survey methodology, sample design; application of quantitative techniques to market research projects. *Prerequisites: Business Administration 305 and Mathematics 150 or Social Sciences 210 or consent of instructor.*
- 450. HUMAN BEHAVIOR IN ORGANIZATIONS.** Behavior of people in relation to managerial environment and the functional fields of business administration. Selected behavioral concepts will be analyzed with respect to their application to management. *Prerequisite: Business Administration 320 or consent of instructor.*
- 460. MANAGEMENT PLANNING AND CONTROL.** Analysis of production resources; measurement and evaluation of status and performance of man-machine systems; forecasting, planning and scheduling; project, quality, and quantity control of programs. *Prerequisites: Business Administration 300 and Business Administration 320 or consent of instructor.*
- 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.** Historical development and analysis of organization and management theory. Comparative analysis-seeking patterns and systematic explanation of differences among organizations. Focus on dynamics of interaction between organizations and their environments.
- 520. ANALYSIS OF BUSINESS CONDITIONS.** The measurement and analysis of general business conditions covering the role of forecasting in managerial planning.
- 530. BUSINESS AND SOCIETY.** A critical evaluation of the American business system; examination of the major political, legal and social factors influencing business enterprise.

CHEMISTRY

Requirements for the major: A minimum of eight courses in Chemistry including Chemistry 202, 203, 321, 322, 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.

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.

Requirements for a minor in Chemistry: six Chemistry courses including Chemistry 202, 203, 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.*

203. 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.*

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 203 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.*

- 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 322 or consent of instructor.*
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 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 203, 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.*
- 524. CHEMISTRY OF NATURAL PRODUCTS.** Selected topics in natural products chemistry. No laboratory. *Prerequisite: Chemistry 521 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, inorganic, organic or physical chemistry conducted under the direction of a faculty member. *Prerequisite: 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: A minimum of ten upper-division courses including 310, 311, 410 and 411.

In consultation with the department, majors in their senior year will be expected to demonstrate the ability to independently develop and execute a project in theatre.

Requirements for a minor in Drama: a minimum of six upper-division courses in Drama and literature. Courses will be chosen in consultation with an advisor.

220. VOICE AND SPEECH. The principles of effective oral communication in platform speaking, group discussion and oral reading.

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

310. EXPERIMENTAL THEATRE I. Form and structure necessary to translate the play for the audience with special emphasis on the actor. Experience in the classroom and in performance before a select audience.

311. EXPERIMENTAL THEATRE II. Continuation of Drama 310. *Prerequisite: Drama 310 or consent of instructor.*

320. THEATRE PRACTICUM. Two units credit. The 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.

410. DRAMATIC PRODUCTION I. The theory and method of the separate arts of the theatre and their interrelation in dramatic production with special emphasis on the development of the theatre from Medieval to Melodrama.

411. DRAMATIC PRODUCTION II. A continuation of Dramatic Production I with special emphasis on directing the play. *Prerequisite: Drama 410.*

412. DRAMATIC PRODUCTION III. A continuation of Dramatic Production II. *Prerequisite: Drama 411 and consent of the Department.*

425. DIRECTED INDIVIDUAL STUDY. Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.

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

Drama

- 455. MODERN DRAMA I.** European, English and American Realism.
- 456. MODERN DRAMA II.** European, English and American Anti-realism.
- 475. SHAKESPEARE I.** The comedies and history plays.
- 476. SHAKESPEARE II.** The tragedies and romances.
- 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**
- 520. THEATRE SEMINAR.** The literature and theory relative to aesthetics, theatre history, drama and dramatic criticism. May be repeated for credit, with consent of instructor.

ECONOMICS

A major in Economics may be chosen only by freshmen, sophomores and juniors in 1970-71.

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.

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.

425. DIRECTED INDIVIDUAL STUDY. Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.

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.
- 460. LABOR ECONOMICS.** Study of labor markets and wages, development of unions and collective bargaining, labor legislation.
- 470. ORGANIZATION AND SOCIAL CONTROL OF INDUSTRY.** Factors determining economic behavior with reference to market structures, evolution and operation of anti-trust legislation, public regulation.
- 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.
- 520. SOVIET ECONOMICS.** A study of development strategy and resource allocation in the planned economy of the Soviet Union; a discussion of the recent reform period.

EDUCATION

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.) No course in Education except Education 330, Psychological Foundations of Education, should 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.)

- 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.

It is necessary for students to make application for student teaching in advance. Deadlines for these applications are as follows: for winter term 1971, October 30, 1970; for spring term 1971, January 29, 1971; for fall term 1971, April 23, 1971.

Standard Teaching Credential—Elementary

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 of this option are available from the Coordinator of Elementary Education.)
3. Completion of the required General Studies courses as described on page 41.
4. Completion of a major in a field approved for elementary teaching. Approved majors at this College include: Art, Drama, English, French, Humanities, Music, Philosophy, Spanish, Biology, Chemistry, Mathematics, Physics, History, Political Science, Psychology, Social Sciences and Sociology. If the student's college major is in a field other than those listed above, he must have it approved by the Coordinator of Elementary Education.
5. For description of current requirements in professional education, please contact the Department of Education.

Elementary Intern Program

The college offers an internship program for prospective elementary teachers. In addition to the admissions requirements cited above, a candidate for the intern program is interviewed on a specified date by a team of educators from the cooperating districts and from the College. A master teacher is provided by each cooperating district to work with the intern group during the entire first year of work. For further information on this program, write to the Department of Education or see the Coordinator of Elementary Education.

Education

Standard Teaching Credential—Secondary

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.
3. Completion of the required General Studies courses as described on page 41.
4. Completion of one of the majors approved for secondary teaching. These include: Art, Drama, English, French, Humanities, Music, Spanish, Biology, Chemistry, Mathematics, Physics, History, Political Science, Psychology, Social Sciences and Sociology.
5. For description of the current requirements in professional education, please contact the Department of Education.

Minors for Secondary Teaching

Listed below are the approved minors for secondary teaching. A minor is not required for a secondary credential, but is strongly recommended for some students. Candidates are urged to discuss minors with the Coordinator of Secondary Education.

Approved minors are available in the following areas at this institution: Division of Humanities: Art, Drama, English, French, German, Music and Spanish; Division of Natural Sciences: Biology, Chemistry, Mathematics and Physics; Division of Social Sciences: History, Political Science, Psychology and Sociology.

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

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.*

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.

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

361. INTERNSHIP II

362. INTERNSHIP III.

495. SOCIAL 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.

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.

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

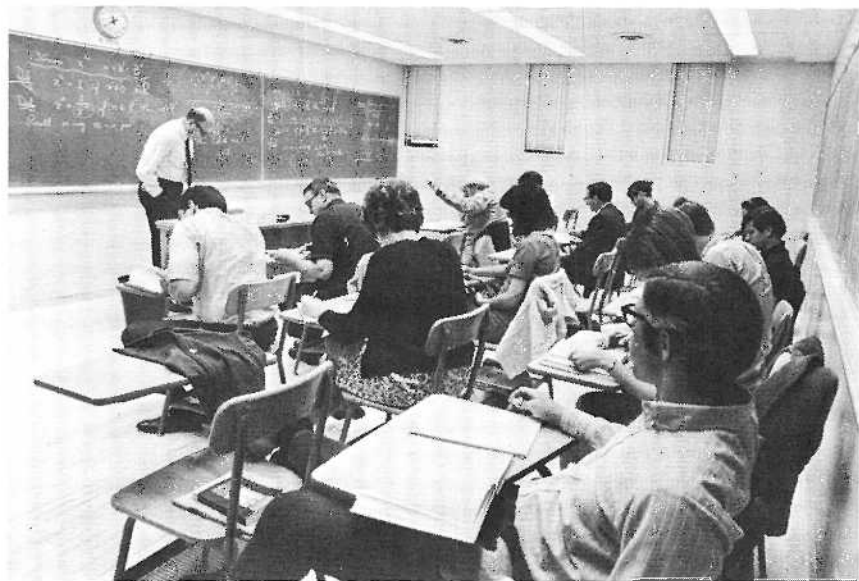
540. ELEMENTARY SCHOOL CURRICULUM. History, organization and operation of the elementary school; curriculum trends; newer practices in elementary education.

541. 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.*

545. 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.*

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.



ENGLISH

Requirements for the major: a minimum of 10 courses in English, including two courses from 301, 302 or 303; at least six other upper-division English courses; completion of Undergraduate Record Examination. Two courses from 110, 111, 120, 121, or from upper-division literature courses offered by a department other than English *may* count toward fulfillment of this requirement.

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

Requirements for a minor in English: six courses including G.S. 170; G.S. 202 or English 500; one course selected from English 110, 111, 120 or 121; one course selected from English 430, 432 or 436; English 475 or 476.

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.

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.

English

- 412. ROMANTIC PROSE AND POETRY.** A study of major English romantics such as Blake, Wordsworth, Coleridge, Keats, Shelley and Byron.
- 415. VICTORIAN LITERATURE.** A study of major writers of Victorian England.
- 418. MODERN BRITISH POETRY.** Studies in modern and contemporary British poetry.
- 421. MODERN BRITISH FICTION.** Studies in modern and contemporary British fiction.
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to Seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 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.
- 441. MODERN AMERICAN POETRY.** Studies in modern and contemporary American poetry.
- 443. MODERN AMERICAN FICTION.** Studies in modern and contemporary American fiction.
- 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 or coordinator 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.

FRENCH

Requirements for the major: thirteen courses in French or their equivalent, including 301, 302 and 310.

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.

All upper-division courses 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.*

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.*

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.*

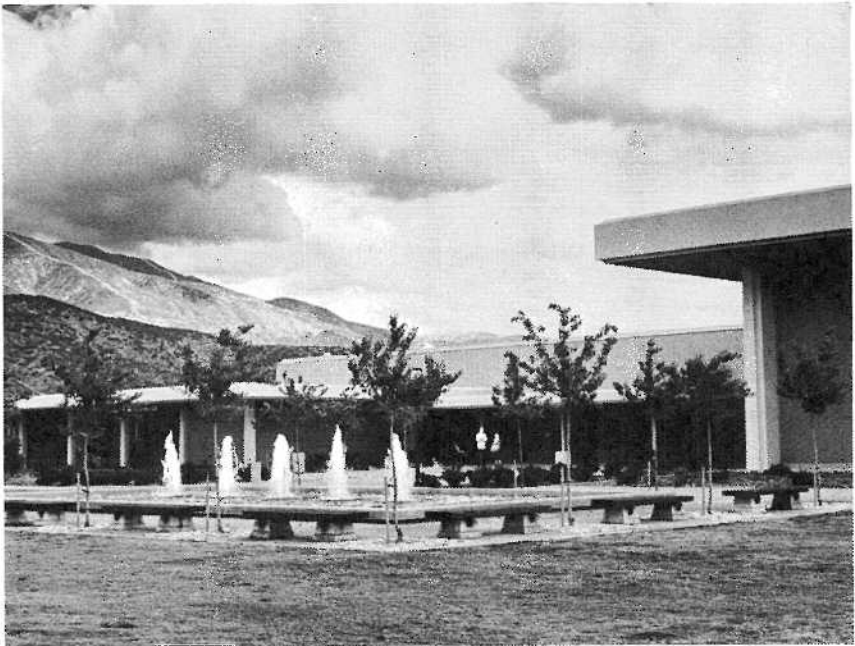
133. SKIN AND SCUBA DIVING. Instruction in the physiology, physics and principles of underwater swimming with and without underwater breathing apparatus. Instruction in use and care of equipment. *Prerequisites: The passing of a basic swimming requirement and a doctor's physical examination.*

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.

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



PHYSICS

Requirements for the major: ten courses in Physics: 202, 203, 301, 302, 303, 401, 402, 403, 405, 420, and six courses in Mathematics: 201, 202, 203, 331, 401, 402.

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 electing G.S. 122, G.S. 126 and G.S. 131.

Requirements for a minor in Physics: Physics 202, 203, 301, 302, 303, 401. The following courses in Mathematics are prerequisite for the minor: Mathematics 201, 202, 203.

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. *Prerequisites: G.S. 120 and Mathematics 101 or equivalent.*

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

203. WAVES AND MODERN PHYSICS. Lecture and laboratory. *Prerequisites: Physics 202 with a grade of C or better and Mathematics 202 or consent of instructor.*

300. ELECTRONICS FOR SCIENTISTS. Electrical measurement techniques and basic electronics. Lecture and laboratory. Not open to physics majors. *Prerequisites: Physics 202 or 102 and Mathematics 201 or consent of instructor.*

301. ELECTRICITY. Circuit theory and vector analysis. Electronics laboratory. *Prerequisites: Physics 203, Mathematics 203.*

302. RELATIVITY AND ELECTRODYNAMICS. Electronics laboratory. *Prerequisite: Physics 301.*

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

401. QUANTUM PHYSICS I. Quantum and statistical physics. Advanced Physics laboratory. *Prerequisite: Physics 303.*

402. QUANTUM PHYSICS II. A continuation of Physics 401. Advanced Physics laboratory. *Prerequisite: Physics 401.*

403. QUANTUM PHYSICS III. A continuation of Physics 402. Advanced Physics laboratory. *Prerequisite: Physics 402.*

405. CLASSICAL MECHANICS. *Prerequisites: Physics 303, Mathematics 331.*

420. SEMINAR: TOPICS IN CONTEMPORARY PHYSICS. *Prerequisite: Physics 402.*

Physics

425. DIRECTED INDIVIDUAL STUDY. Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.

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.*

POLITICAL SCIENCE

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 Politics (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 Constitution and in California state and local government.

Prerequisites for upper-division courses are Political Science 200 and 202 or consent of the instructor.

300. COMPARATIVE POLITICS I. A study of major Western political systems.

304. COMPARATIVE POLITICS II. A study of Communist political systems and an examination of the relationships among such systems.

306. COMPARATIVE POLITICS III. Study of developmental politics with an emphasis on newly independent nations.

310. ANALYSIS OF POLITICAL THEORY I. 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 POLITICAL THEORY II. A study of the major political ideas from Hobbes to the present, emphasizing the European theorists.

314. AMERICAN POLITICAL THOUGHT. A study of the development of political ideas in America from colonial times 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.
- 350. THE CONTEMPORARY BLACK REVOLT.** The Civil Rights movement in terms of the non-violent approach, the later Black Power mood, the Black nationalist groups and white participation in the movement.
- 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 covered.
- 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.
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 430. THE MODERN POLITICAL EXECUTIVE.** The office and institution of the modern political executive in the United States and other countries.
- 440. POLITICAL BEHAVIOR I.** Analysis of factors related to voting behavior and other forms of political involvement, including analysis and interpretation of electoral decisions.
- 446. POLITICAL BEHAVIOR II.** 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.
- 510. INTERNATIONAL ORGANIZATION.** A study of the history, structure, and dynamics of the United Nations and other multi-national organizations.
- 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.

Political Science

- 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.
- 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.
- 302. ADVANCED GENERAL PSYCHOLOGY.** The scientific study of behavior emphasizing the systematic development of principles. *Prerequisite: Psychology 100.*
- 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. *Prerequisite: Psychology 100 or consent of instructor.*
- 330. HISTORY OF PSYCHOLOGY.** Development of psychological concepts, methods, and theories from their origins to the present. *Prerequisite: Psychology 100.*
- 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.*
- 410. DEVELOPMENTAL PSYCHOLOGY.** Review of psychological development and behavioral changes occurring with age. *Prerequisite: Psychology 100 or consent of instructor.*
- 420. ABNORMAL PSYCHOLOGY.** An introduction to psychopathology with consideration of the major conceptions of the nature of behavioral disorders. *Prerequisites: Psychology 100 and 320 or equivalent.*
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 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. *Prerequisite: Psychology 100 or consent of instructor.*
- 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. *Prerequisites: Psychology 100 and 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 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 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 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 310 or Sociology 305.*
- 480. PHYSIOLOGICAL PSYCHOLOGY.** Selected investigations of physiological correlates of behavior. Lecture and laboratory. *Prerequisites: Psychology 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. *Prerequisites: Psychology 100, 420, 440.*
- 510. PRACTICUM.** Advanced study in counseling and testing based upon supervised work experience. *Prerequisites: senior standing in Psychology and consent of instructor.*
- 520. SEMINAR IN EXPERIMENTAL PSYCHOLOGY.** Student-faculty participation in review and presentation of advanced research areas. *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. *Prerequisites: senior or graduate standing and consent of instructor.*
- 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. *Prerequisites: senior or graduate standing 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, 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 contract program will be agreed upon by the student and his advisor. The contract 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.

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.*

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 its equivalent), and a minimum of ten upper-division courses in Sociology including Sociology 300, 305, 310 and 312. With the approval of the departmental advisor, up to two courses in related fields may be counted toward the upper-division requirement in Sociology.

Requirements for a minor in Sociology: six Sociology courses of which at least four must be upper-division selected in consultation with a departmental advisor.

There are no lower-division Sociology courses. It is recommended that Social Sciences 210 be taken during the sophomore year.

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.*

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

341. MARRIAGE AND FAMILY AMONG BLACKS. 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.

354. DEVIANT 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.

Sociology

- 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.
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 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.

SPANISH

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.

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.*

120. SPANISH FOR NATIVE SPEAKERS. An intermediate course emphasizing orthography and language structure. Recommended for native speakers instead of Spanish 104. *Prerequisite: Spanish 103 or consent of instructor.*

All upper-division courses are conducted in Spanish.

301. PRACTICAL PHONETICS. *Prerequisite: Spanish 104 or equivalent.*

302. ADVANCED GRAMMAR AND SYNTAX. *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. 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. 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.*
- 425. DIRECTED INDIVIDUAL STUDY.** Assigned reading, report writing, laboratory or studio work, as appropriate for 1 or 2 units of credit. Course open to seniors, who, after completion of their graduation requirement check, require 1 or 2 units for graduation. May be taken only once. Open to majors only, with consent of instructor. Certification of eligibility for enrollment in this course is obtained from the Registrar.
- 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. Recommended for non-majors. *Prerequisite: Spanish 104 or equivalent or consent of instructor.*
- 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.
- 499. MATERIALS AND METHODS 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.*
- 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.*

NOTE: All information and announcements herein are subject to change without notice. Students should consult the Class Schedule issued before each term, to determine precisely what courses will be offered.



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Theodore Meriam, A.B. (1971)	P.O. Box 370, Chico	95926
Albert J. Ruffo, LL.B., B.S. in E.E. (1971)	675 N. 1st St., Suite 1200, San Jose	95112
Mrs. Philip Conley, B.A. (1972)	3729 Huntington Blvd., Fresno	93702
E. Guy Warren, B.A. (1973)	P.O. Box 59, Hayward	94541
Daniel H. Ridder, B.A. (1975)	604 Pine Avenue, Long Beach	90801
George D. Hart, A.B. (1975)	111 Sutter Street, San Francisco	94104
Alec L. Cory, B.A., LL.B. (1973)	530 B St., Suite 1900, San Diego	92101
William A. Norris, B.A., LL.B. (1972)	609 So. Grand Avenue, Los Angeles	90017
Edward O. Lee, B.A. (1974)	610 16th St., Room 420, Oakland	94612
Karl L. Wentz, M.S. (1976)	5565 Tesla Road, Livermore	94550
Dudley Swim, A.B., M.A. (1976)	Route 2, Box 5000, Carmel Valley Road, Carmel	93924
E. Litton Bivans (1977)	2431 Dallas Street, Los Angeles	90031
W. O. Weissich, B.S., J.D. (1977)	1299 Fourth Street, San Rafael	94901
Robert A. Hornby, M.E., LL.D. (1978)	P.O. Box 60043, Terminal Annex, Los Angeles	90060
Phillip V. Sanchez, B.A. (1978)	1015 E. Alluvial St., Fresno	93726

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5670 Wilshire Boulevard, Los Angeles, California 90036 (213) 938-2981

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CALIFORNIA STATE COLLEGE, SAN BERNARDINO

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Building Coordinator	James H. Urata, M.A.
Assistant to Executive Dean	Ben M. Adams, B.S.C.E.
Director of Physical Plant	Herbert Brown, M.S.C.E.
Dean of Students	Kenton L. Monroe, Ph.D.
Assistant Dean of Students	Robert F. Gentry, M.S.
Associate Dean, Activities and Housing	Russell J. DeRemer, Ph.D.
Activities Advisor	Richard J. Bennecke, B.A.
Housing Coordinator	L. Theron Pace, Ph.D.
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Financial Aid Coordinator	Gilbert R. Rangel, B.A.
Placement Advisor	Gladys M. Hubbard, M.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.
Accounting Officer John Fredricks, B.S.
Budget Officer Jim G. Martinez, B.A.
Personnel Officer Oscar Jackson, B.A.
Purchasing Officer R. Joy Robertson, A.A.

FACULTY 1970-71

- ELLIOTT R. BARKAN (1968) Assistant Professor of History
B.A. 1962, Queens College; M.A. 1963, Ph.D. 1968, Harvard University.
- RONALD E. BARNES, JR. (1965) Professor of Drama
B.S.Ed. 1951, University of Minnesota; Ph.D. 1963, Stanford University.
- JOE BAS (1968) Associate Professor of Spanish
A.B. 1958, California State College, Long Beach; A.M. 1964, Ph.D. 1966, University of Southern California.
- JEANETTE BERNTHALER (1965) Librarian IV
B.A. 1962, University of Redlands; M.A.L.S. 1963, University of Southern California.
- ROBERT A. BLACKKEY (1968) Assistant Professor of History
B.A. 1963, City College of New York; M.A. 1964, Ph.D. 1968, New York University.
- MARTY BLOOMBERG (1966) Librarian IV
B.A. 1960, Texas Christian University; M.A. 1961, University of Denver; M.A.T. 1968, University of Redlands.
- THOMAS J. BRAGA (1970) Assistant Professor of French
A.B. 1966, Providence College; Ph.D. 1970, Rice University
- 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
B.A. 1960, M.A. 1962, Michigan 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 Business Administration
B.A. 1955, Southern Missionary College; M.S. 1962, Trinity University; M.B.E. 1970, Claremont Graduate School.
- CHERIE E. CHOATE (1968) Assistant Professor of Mathematics
B.A. 1966, Alfred University; A.M. 1968, Dartmouth College.
- JOSEPH J. CHOUINARD (1970) Librarian II
B.A. 1950, M.A. 1951, University of Connecticut.

- MARY ANN CISAR (1965) Associate Professor of Political Science
Coordinator, Department of Political Science
B.A. 1959, M.A. 1962, Ph.D. 1965, Ohio State University.
- CHARLES H. CLIFTON (1966) Assistant Professor of English
B.A. 1960, State University of Iowa.
- JAMES D. CRUM (1966) Professor of Chemistry
Coordinator, Department of Chemistry
B.Sc. 1952, Ohio State University; M.Sc. 1953, Marshall University;
Ph.D. 1958, Ohio State University.
- FREDERICK H. DAMASKE (1968) Assistant Professor of
Political Science
A.B. 1958, Anderson College; M.A. 1961, Ohio University.
- 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
A.B. 1961, Occidental College; M.S. 1963, Ph.D. 1965, Indiana University.
- ROY S. DICKENS (1970) Assistant Professor of Anthropology
A.B. 1963, Georgia State College; M.A. 1966, University of Alabama;
Ph.D. 1970, University of North Carolina.
- G. KEITH DOLAN (1967) Professor of Education
Coordinator of Secondary Education
B.A. 1950, George Pepperdine College; M.Ed. 1952, Ed.D. 1961, University of California, Los Angeles.
- PATRICK L. EAGAN (1970) Assistant Professor of
Political Science
B.S. 1952, Regis College; M.A. 1955, Colorado State College.
- A. MAC EATON (1969) Assistant Professor of Psychology
B.A. 1960, University of California, Berkeley; M.A. 1966, Ph.D. 1969, University of Chicago.
- ALFRED S. EGGE (1966) Professor of Biology
Coordinator, Department of Biology
B.A. 1957, California State College, Long Beach; M.S. 1959, Ph.D. 1962, University of Arizona.
- SERGIO D. ELIZONDO (1968) Associate Professor of Spanish
Coordinator, Department of Spanish
B.A. 1958, Findlay College; M.A. 1961, Ph.D. 1964, University of North Carolina.

- ROBERT G. FISK (1962)** Professor of Education
B.S. 1941, M.Ph. 1946, University of Wisconsin; Ed.D. 1953, Teacher's College, Columbia University.
- DAVID P. FLINT (1968)** Assistant Professor of Political Science
B.S. 1961, University of North Dakota; M.A. 1964, Ph.D. 1969, Washington State University.
- JAMES T. FREEMAN (1967)** Professor of Psychology
B.A. 1950, M.S. 1950, University of Oklahoma; Ph.D. 1953, Northwestern University.
- 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.
- MICHAEL W. GLANDON (1967)** Lecturer in Political Science
B.A. 1965, California State College, Fullerton.
- BRUCE GOLDEN (1965)** Assistant Professor of English
B.S. 1955, Northwestern University; M.A. 1958, Ph.D. 1966, Columbia University.
- RICHARD E. GOODMAN (1967)** Associate Professor of Biology
A.B. 1960, Ph.D. 1965, University of California, Los Angeles.
- ROBERT T. GOSS (1966)** Assistant Professor of German
B.A. 1961, M.A. 1965, University of California, Los Angeles.
- JOSEPH W. GRAY (1969)** Assistant Professor of Education
B.A. 1958, M.A. 1969, University of Redlands.
- ROBERT J. GREENFIELD (1967)** Assistant Professor of Sociology
B.A. 1963, M.A. 1964, California State College, Los Angeles; Ph.D. 1968, University of California, Los Angeles.
- ROBERT N. GROVE (1970)** Assistant Professor of Psychology
B.A. 1965, California Lutheran College; M.A. 1968, University of Minnesota.
- JOHN E. HAFSTROM (1965)** Professor of Mathematics
Chairman, Department of Mathematics
B.S. 1936, North Dakota State University; M.A. 1949, Ph.D. 1954, University of Minnesota.
- WILLIAM L. HANEY (1967)** Assistant Professor of Art
B.F.A. 1961, Washburn University; M.F.A. 1964, Indiana University.
- 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
Coordinator, 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.
- JESSE HIRAOKA (1965) Professor of French
Coordinator, Department 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
B.A. 1961, Occidental College; M.A. 1965, Ph.D. 1965, University of California, Riverside. (On leave, 1970-71)
- GEORGE IWANAGA (1966) Assistant Professor of Spanish
B.A. 1959, Texas Western College; M.A. 1961, University of Arizona.
- JORUN B. JOHNS (1965) Assistant Professor of German
Ph.D. 1956, University of Vienna.
- PAUL J. JOHNSON (1966) Assistant Professor of Philosophy
A.B. 1961, University of Chicago; M.A. 1963, Ph.D. 1969, The Johns Hopkins University.
- LEE H. KALBUS (1965) 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.L.S. 1941, University of Denver.
- CHARLES F. KELLERS (1968) Professor of Physics
B.A. 1953, Swarthmore College; Ph.D. 1960, Duke University.
- BRIJ B. KHARE (1968) Associate Professor of Political Science
B.S. 1953, Agra, India; M.S. 1959, University of Toronto; M.A. 1963, Ph.D. 1968, University of Missouri, Columbia.
- NIKOLAI E. KHOKHLOV (1968) Associate Professor of Psychology
M.A. 1967, Ph.D. 1968, Duke University.
- LARRY L. KRAMER (1968) Assistant Professor of English
B.A. 1961, M.A. 1963, Ohio State University; M.F.A. 1968, The University of Iowa.

- JOSEPH LABAT (1966)** Assistant Professor of French
B.A. 1960, University of Montreal; M.A. 1966, University of Missouri.
- 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.
- 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
B.A. 1959, University of Pittsburgh; M.A. 1963, Ph.D. 1968, University of Washington.
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B.S. 1960, State University of New York; M.F.A. 1962, Southern Illinois University.
- 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
A.B. 1961, M.A. 1962, Ph.D. 1965, Stanford University.
- JOHN F. McDONNELL (1969)** Assistant Professor of Business Administration
B.S. 1955, Bowling Green State University; M.B.E. 1967, Claremont Graduate School.
- EDITH McKENZIE (1969)** Lecturer in Sociology
B.A. 1966, M.A. 1969, University of California, Riverside.
- GEORGE L. McMICHAEL (1962)** Professor of English
B.S. 1950, M.A. 1955, Ph.D. 1959, Northwestern University.
- 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.
- JUDITH ANN MARQUIS (1970)** Assistant Professor of Spanish
B.S. in Ed. 1961, Miami University; M.A. 1966, University of Kansas.
- E. CLARK MAYO (1967)** Assistant Professor of English
B.A. 1960, Brown University; B.D. 1963, Union Theological Seminary; M.A. 1965, University of Chicago.
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- MARY JO MEADE (1968) Librarian III
B.A. 1939, Clarke College; B.S. in L.S. 1940, Western Reserve University.
- JOHN T. MEEHAN (1969) Assistant Professor of Psychology
B.A. 1962, Roanoke College; M.A. 1964, Hollins College; Ph.D. 1967, University of Alabama.
- KENTON L. MONROE (1965) Associate Professor of Psychology
Dean of Students
B.A. 1959, University of Oregon; M.S. 1963, Ph.D. 1964, Purdue University.
- FRANK MORRA, JR. (1970) Assistant Professor of Psychology
B.S. 1965, Carnegie Institute of Technology; M.S. 1968, Carnegie-Mellon 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.
- FLORENCE B. MOTE (1967) Associate Professor of Education
B.A. 1935, University of Washington; M.A. 1949, Ed.D. 1966, Stanford University.
- JAMES L. MURPHY (1970) Assistant Professor of Mathematics
B.A. 1964, University of Detroit; M.S. 1966, Michigan State University.
- ARTHUR NELSON (1963) College Librarian
B.A. 1950, St. Thomas College; M.A. 1951, M.A.L.S. 1956, University of Minnesota.
- JAMES G. NUTSCH (1968) Assistant Professor of History
B.S. 1952, Kansas State University; M.A. 1965, Ph.D. 1968, University of Kansas.
- 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, University of New Mexico.
- JOHN B. PALMER (1968) Assistant Professor of Biology
B.A. 1963, Oberlin College; Ph.D. 1968, University of Oregon.
- CLIFFORD T. PAYNTON (1968) Associate Professor of Sociology
Coordinator, Department of Sociology
B.A. 1958, Seattle Pacific College; M.A. 1962, Ph.D. 1964, University of Washington.

- FERNANDO PENALOSA (1965)** Professor of Sociology
A.B. 1949, A.M. 1950, University of Denver; Ph.D. 1956, University of Chicago; A.M. 1959, Ph.D. 1963, University of Southern California.
- STUART M. PERSELL (1967)** Assistant Professor of History
B.A. 1962, University of California, Santa Barbara; M.A. 1963, Ph.D. 1969, Stanford University.
- RALPH H. PETRUCCI (1964)** Professor of Chemistry
Chairman, Division of Natural Sciences
B.S. 1950, Union College; Ph.D. 1954, University of Wisconsin. (On leave, winter and spring terms 1971)
- JOHN M. PFAU (1962)** President
Professor of History
A.B. 1947, A.M. 1948, Ph.D. 1951, University of Chicago.
- ROBERT D. PICKER (1969)** Professor of Geography
Dean of Instruction
B.A. 1950, Columbia College; M.A. 1952, Columbia University; Ph.D. 1962, University of Washington.
- GARY M. PICKERSGILL (1968)** Assistant Professor of Economics
B.A. 1961, University of Oklahoma; M.A. 1965, University of Washington.
- CHARLES GOWER PRICE (1967)** Assistant Professor of Music
A.B. 1962, A.M. 1963, Ph.D. 1967, Stanford University.
- H. STEPHEN PROUTY, JR. (1964)** Associate Dean, Admissions and Records
B.S. 1957, M.S. 1960, Kansas State University, Manhattan.
- BONHAM C. RICHARDSON (1970)** Assistant Professor of Geography
B.A. 1961, University of Arizona; M.S. 1968, University of Wisconsin.
- 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, Division of Social Sciences
A.B. 1942, Whitman College; M.A. 1947, Ph.D. 1952, University of Chicago.
- ANITA ROMOLO (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.
- MIREILLE G. RYDELL (1968) Associate Professor of French
Licence 1950, University of Bordeaux; M.A. 1958, Ph.D. 1968, University of Minnesota. (On leave, winter term 1971)
- EDWARD SANFORD (1968) Professor of Business Administration
B.C.S. 1954, University of Santa Clara; Ph.D. 1963, Claremont Graduate School.
- RICHARD S. SAYLOR (1968) Associate Professor of Music
Coordinator, Department of Music
B.S. 1950, B.M. 1955, Ithaca College; M.M. 1958, University of Michigan; D.M.A. 1966, Stanford University.
- GERALD M. SCHERBA (1962) Professor of Biology
Vice President for Academic Affairs
B.S. 1950, M.S. 1952, Ph.D. 1955, University of Chicago.
- KENT M. SCHOFIELD (1966) Associate Professor of History
Coordinator, Department of History
B.A. 1961, University of California, Riverside; M.A. 1962, Claremont Graduate School; Ph.D. 1966, University of California, Riverside.
- PETER R. SCHROEDER (1967) Assistant Professor of English
A.B. 1962, Stanford University; M.A. 1963, Ph.D. 1967, Harvard University. (On leave, fall term 1970)
- 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.
- ROY H. SHOEMAKER (1970) Lecturer in Spanish
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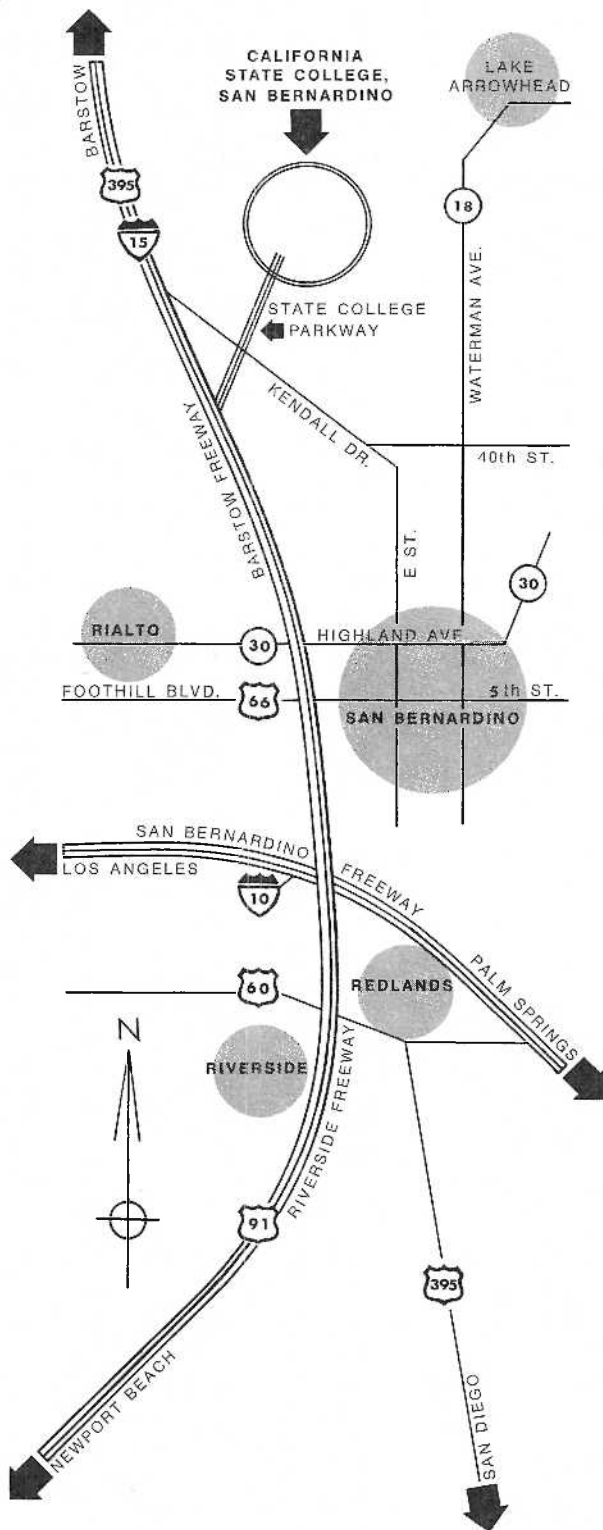
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