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Dear Friend,

Welcome to the 2000-2002 catalog for California State University, Northridge. The following pages contain important information about the university’s academic programs and services, and they reflect the dedication of the faculty and staff who will help prepare you for professional and personal success.

As the new president of Cal State Northridge, I have witnessed the strength and commitment of this institution to its students and community. I am impressed by the breadth of the educational opportunities, programs, and services the campus provides. The university has shown remarkable agility throughout its history by embracing change and meeting challenges head on. As a result, CSUN is a leading institution of higher education that gives students the experience they need to achieve their goals and serve the community. I feel privileged to have the opportunity to lead the university into the new millennium.

A college education in this era of information and technology is essential. An increasing number of new and returning students, who have recognized the importance of baccalaureate and advanced degrees in today’s competitive work environment, choose to study at Cal State Northridge. Many new jobs - including new industries that did not even exist a decade ago - offer exciting career opportunities for our graduates.

The university’s latest program enhancements underscore the institution’s commitment to students. One of the centerpieces of this mission is the new Student Services Center, opened in fall 1999 and located in the former Administration Building. We have consolidated a wide range of services previously located around campus, including Admissions and Records, Financial Aid, Academic Advisement, the Counseling Center, the Learning Resource Center, Developmental Math, Outreach and Recruitment, and University Financial Services. The Student Services Center is but one example of how we strive to ensure that our programs and services are always focused on students.

Similarly, the recent redesign of the Oviatt Library - the intellectual and physical center of our campus - features new landscaping and a sweeping staircase effectively connecting the Library to the Sierra Quad and the rest of the university campus.

Also being built are new facilities for the College of Arts, Media, and Communication, the College of Health and Human Development, Information Technology Resources, and Administration. We are at the threshold of a new era that will give us the opportunity to make significant technological enhancements to serve students of the 21st century. Additional improvements are planned, including informal gathering areas where students, faculty, and staff can come together as a community.

These enhancements support the pursuit of excellence by Cal State Northridge’s faculty, many of whom are leaders in their fields and produce cutting edge scholarship and instruction. Because of the faculty’s shared commitment to student achievement, students at Cal State Northridge have many more opportunities to be mentored by faculty and engage in “hands-on” research and scholarship than is common at large public universities.

We take great pride in the rich and diverse university experiences available to students. In addition to the many cultural activities offered by the campus, more than 225 student organizations offer career preparation, recreation, and opportunities for artistic, religious, and political expression. Students are served by an expanded Student Union, a 500-seat Performing Arts Center, and state-of-the-art communications technologies which students can access through personal computer accounts they receive when they enroll.

Since its founding in the late 1950s, Cal State Northridge has experienced phenomenal growth as the only four-year institution in the San Fernando Valley and as a leading academic institution in Southern California. We take great pride in the quality of the students we have educated and in the service we provide to them and to the community as a center of learning and cultural life in the Valley. We envision a continuation and expansion of these achievements and invite you to become an active part of California State University, Northridge.

Jolene Koester, President

California State University
NORTHRIDGE
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CHANGES IN RULES & POLICIES

Although every effort has been made to assure the accuracy of the information in this catalog, students and others using this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the Chancellor or designee of the California State University, or by the President or designee of the institution. Further, it is not possible in a publication of this size to include all of the rules, policies and other information which pertain to the student, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, college, or administrative office.
Nothing in this catalog shall be construed as, operate as, or have the effect of an abridgement or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the Chancellor of the California State University, or the President of the campus. The Trustees, the Chancellor, and the President are authorized by law to adopt, amend, or repeal rules and policies which apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the institution or the California State University. The relationship of the student to the institution is one governed by statute, rules, and policy adopted by the Legislature, the Trustees, the Chancellor, the President and their duly authorized designees.

The California State University, Northridge Undergraduate and Graduate Catalog is published to help the prospective and continuing student make decisions toward fulfillment of academic goals. It is available at the University library for reference and at the Matador Bookstore for purchase.

Because this catalog was printed in spring 2000, students should consult the appropriate academic departments, offices and the Spring 2000 Schedule of Classes for new and modified curricula, regulations, policies, procedures, dates, fees and deadlines in effect for the 2000-2002 academic year.

The California State University, Northridge Undergraduate and Graduate Catalog is produced by the Office of Undergraduate Studies, (818) 677-2969. State funds are not used in the printing of the catalog.

Address: CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
18111 NORDHOFF STREET
NORTHRIDGE, CALIFORNIA 91330
Telephone: (818) 677-1200
Website: http://www.csun.edu

HOW TO USE THE 2000-2002 CSUN CATALOG: A READER’S GUIDE

THIS CATALOG HAS NINE MAIN PARTS:
1. Introduction
2. Student Services
3. Undergraduate Programs
4. Graduate Programs
5. Credential Programs
6. Courses of Study (College/Departmental Listings)
7. Appendices
8. Faculty and Administration
9. Index

HERE ARE SIX WAYS TO FIND INFORMATION ABOUT CAL STATE UNIVERSITY, NORTHRIDGE:
1. Turn this page and look for the item you want in the main TABLE OF CONTENTS.
2. Look for the item you want in one of the more COMPREHENSIVE TABLE OF CONTENTS at the beginning of each of the main parts of the catalog.
3. Check the INDEX at the end of the catalog: It gives you an alphabetical list of virtually everything you might want to know about Cal State Northridge and the pages where you can find the appropriate information in this catalog.
4. Dial one of the PHONE NUMBERS: Entries throughout the catalog give you a phone number if you need more information about the topic. The CSU Northridge general information line, for example, is (818) 677-1200.
5. Check the SCHEDULE OF CLASSES: Information on the current semester’s course offerings and academic calendar appears in the Schedule of Classes, which you can buy at the Matador Bookstore (the campus bookstore near Nordhoff and Lindley). The Schedule of Classes also provides updates on fees and costs; new and revised courses, programs, and policies; and other important information (such as the time and location of individual classes).
6. Visit the campus via the WORLD WIDE WEB at http://www.csun.edu
FALL 2000 SEMESTER CALENDAR

Saturday June 3 Upper Division Writing Proficiency Examination.
Friday June 9 Registration deadline for ELM and EPT examinations.
Monday-Friday June 12 - June 16 Touch-Tone Spring 2000 Grade Reporting Appointment period.
Saturday June 24 ELM and EPT Examinations.
Friday July 7 LAST DAY TO SUBMIT FALL 2000 TTR FEE PACKETS.
Wednesday-Thursday July 26 - Aug. 10 Fall 2000 Regular TTR appointment period for eligible students.
Friday July 28 Last day to confirm awarding of baccalaureate and master’s degrees for students who completed graduation requirements for Spring 2000.
Tuesday Aug. 1 Application for Spring 2001 begins.
Friday Aug. 4 Deadline for submitting theses or graduate projects ready for binding, for summer 2000 to Graduate Evaluation Services, AP Dome 706.
Monday Aug. 14 TTR open to ALL eligible students.
Monday Aug. 14 Confirmation of classes for Fall 2000 mailed to students participating in TTR.
Tuesday-Friday Aug.15 - Aug. 25 EXTENDED TTR. Students may use the TTR system to add or drop classes or listen to their schedule. Registration period for students admitted late.
Monday Aug. 28 Classes begin. First day to change Basis of Grading.
Thursday Aug. 31 Last day to drop Non-resident units without pro-rated charges.
Monday Sept. 4 Labor Day Holiday. All offices closed. No instruction.
Friday Sept. 8 Last day to drop a class (with no approval) and last day to qualify for refunds.
Wednesday Sept. 13 Deadline for completion of processing of documents for graduate students disqualified in the previous semester.
Friday Sept. 15 Last day to register late, add a class, or change Basis of Grading.
Friday Sept. 15 Last day to submit request for course repeats graduate students.
Friday Sept. 15 Registration deadline for the Upper Division Writing Proficiency Examination.
Saturday Sept. 23 Upper Division Writing Proficiency Examination.
Friday Sept. 29 Registration deadline for the ELM and EPT Examinations.
Friday Oct. 13 Deadline for application for Spring 2001 Multiple or Single Subject student teaching.
Saturday Oct. 14 ELM and EPT Examinations.
Wednesday Nov. 1 Application period for Fall 2001 begins.
Friday Nov. 3 Registration deadline for the ELM and EPT Examinations.
Friday Nov. 3 Registration deadline for the Upper Division Writing Examination. Students planning to graduate at the close of Fall 2000 must pass the UDWE no later than November 11, 2000.
Friday Nov. 3 Spring 2001 TTR Fee/Instruction Mailers sent to students.
Friday Nov. 3 Academic Advisement period begins.
Saturday Nov. 11 Upper Division Writing Proficiency Examination. Last exam for Fall 2000 graduation.
Saturday Nov. 18 ELM and EPT Examinations.
Thursday-Saturday Nov. 23 - Nov. 25 Thanksgiving Holiday. No instruction.
Monday Nov. 27 Last day to apply for admission to a credential program for Spring 2001.
Thursday Nov. 30 Deadline for previously disqualified students to submit application for Fall 2001.
Friday Dec. 1 LAST DAY TO SUBMIT SPRING 2001 TTR FEE PACKETS.
Friday Dec. 1 Last day to confirm awarding of baccalaureate and master’s degrees for students who completed graduation requirements for Summer 2000.

(PLEASE NOTE: THIS CALENDAR IS NOT TO BE CONSTRUED AS AN EMPLOYEE WORK CALENDAR.)
FALL 2000 SEMESTER CALENDAR (continued)  (Dates subject to change)
Friday  Dec. 1  Deadline to apply for graduation for undergraduates in Fall 2001.
Wednesday  Dec. 6  Last day of formal instruction, except for classes meeting once weekly.
Thursday  Dec. 7  Deadline for submitting thesis or graduate project for Fall 2000, ready for binding, to Graduate Studies Office, AP Dome 706.
Thursday-Friday  Dec. 7 - Dec. 8  Review days and faculty conferences.
Saturday-Thursday  Dec. 9 - Dec. 14  Final Examinations.
Thursday  Dec. 21  Official last day of semester.
Friday-Monday  Dec. 22 - Jan. 1  Holiday closure.  All offices closed.  No instruction.

SPRING 2001 SEMESTER CALENDAR*  (Dates subject to change)
Monday  Nov. 6  Spring 2001 TTR Fee/Instruction Mailers sent to students.
Monday  Nov. 6  Advisement period for Spring 2001 begins.
Thursday  Nov. 30  Deadline for previously disqualified students to submit applications for Fall semester 2001.
Wednesday  Dec. 1  LAST DAY TO SUBMIT SPRING 2001 TTR FEE PACKETS.
Tuesday-Friday  Jan. 9 - Jan. 12  TTG Fall 2000 Grade Reporting Appointment Period.
Wednesday-Friday  Jan. 3 - Jan. 19  Spring 2001 Regular TTR Appointment Period for eligible students.
Friday  Jan. 12  Registration deadline for Upper Division Writing Proficiency Examination.
Monday  Jan. 15  Martin Luther King, Jr. Holiday.  All offices closed.  No instruction.
Monday  Jan. 22  TTR open to ALL eligible students.
Monday  Jan. 22  Confirmation of Classes mailed to students who participated in TTR.
Monday  Jan. 22  EXTENDED TTR. Students may use the TTR system to add or drop classes or listen to their schedule. Registration period students admitted late.
Saturday  Jan. 20  Upper Division Writing Proficiency Examination.
Monday  Jan. 29  Classes begin. Late Registration/Change of Program period begins.
Saturday  Feb. 3  ELM and EPT Examinations for Fall 2001 First-Time-Freshman only.
Friday  Feb. 9  Last day to drop classes with no approval. Last day to qualify for refund.
Friday  Feb. 16  Last day to register late, add a class, or change Basis of Grading.
Saturday  Feb. 17  ELM and EPT Examinations for Fall 2001 First-Time-Freshman only.
Friday  Feb. 23  Registration deadline for Upper Division Writing Proficiency Examination.
Saturday  March 3  Upper Division Writing Proficiency Examination.
Monday  March 14  Deadline for application for Fall 2000 Multiple of Single Subject student teaching.
Saturday  March 24  ELM and EPT Examinations.
Thursday  April  5  Continuous enrollment deadline for Financial Aid students. No aid repayments due if continuously enrolled after this date.
Friday  April  6  Registration deadline for Upper Division Writing Proficiency Examination. Students planning to graduate at the close of Spring 2001 must pass the UDWE no later than April 19, 2001.
Saturday  April 14  Upper Division Writing Proficiency Examination.
Monday-Friday  April 9 - April 13  Spring Recess.  No instruction.
Saturday  April 14  Upper Division Writing Proficiency Examination.
Friday  April 20  Deadline to register for ELM and EPT Examinations.
Tuesday  May  1  Last day to confirm the awarding of baccalaureate and master’s degrees for students who completed graduation requirements for Fall 2000.

**SPRING 2001 SEMESTER CALENDAR*** (Dates subject to change)

<table>
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<tr>
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<td>Tuesday</td>
<td>May 1</td>
<td>Advisement period for Fall 2001 begins.</td>
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<td>Deadline to apply for graduation for undergraduates in Spring 2002 and Summer 2002.</td>
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<td>Saturday</td>
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<td>Wednesday</td>
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<td>Last day of formal instruction, except for classes meeting once weekly.</td>
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<td>Friday</td>
<td>May 18</td>
<td>Deadline for submitting thesis or graduate project for Spring 2001, ready for binding, to Graduate Evaluation Services, AP Dome 706.</td>
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INTRODUCTION TO CALIFORNIA STATE UNIVERSITY, NORTHridge

18111 Nordhoff Street
Northridge, CA 91330
Phone: (818) 677-1200

CALIFORNIA STATE UNIVERSITY, NORTHridge

A member of the 23-campus California State University system, the University is one of the largest institutions of higher learning in California. It is the third-largest public university in Los Angeles County, after UCLA and Cal State Long Beach. In fall 1999, student enrollment was nearly 28,000, served by 1,700 faculty members and a staff of about 2,000. In 1998-99, 3,975 students were graduated with bachelor’s degrees in 51 disciplines; 834 students achieved master’s degrees in 44 disciplines.

MISSION

California State University, Northridge exists to enable students to realize their educational goals. The University’s first priority is to promote the welfare and intellectual progress of students.

To fulfill this mission, we design programs and activities to help students develop the academic competencies, professional skills, critical and creative abilities, and ethical values of learned persons who live in a democratic society, an interdependent world, and a technological age; we seek to foster a rigorous and contemporary understanding of the liberal arts, sciences, and professional disciplines, and we believe in the following values:

VALUES

1. COMMITMENT TO TEACHING, SCHOLARSHIP, AND ACTIVE LEARNING

We demonstrate excellence in teaching. We honor and reward high performance in learning, teaching, scholarship, research, service, and creative activity. Because the quality of our academic programs is central to our mission, we encourage intellectual curiosity and protect the multiple expressions of academic freedom.

2. COMMITMENT TO EXCELLENCE

We set the highest standards for ourselves in all of our actions and activities and support the professional development of faculty, staff and administrators.

We assess our performance so that every area of University life will be continually improved and renewed. We recognize and reward our efforts of greatest distinction and through them provide state and national leadership.

3. RESPECT FOR ALL PEOPLE

We aspire to behave as an inclusive, cooperative community. Our behaviors, policies, and programs affirm the worth and personal dignity of every member of the University community and contribute to a campus climate of civility, collegiality, tolerance, and reasoned debate.

4. ALLIANCES WITH THE COMMUNITY

We seek partnerships with local schools, community colleges, businesses, government and social agencies to advance the educational, intellectual, artistic, civic, cultural and economic aspirations of our surrounding communities.

5. ENCOURAGEMENT OF INNOVATION, EXPERIMENTATION, AND CREATIVITY

We seek to provide an environment conducive to innovation, experimentation, and creativity. We encourage all members of our community to take intellectual and creative risks and to embrace changes that will enhance the fulfillment of the University’s mission.

VISION

California State University, Northridge is inspired by the belief that our commitment to educational opportunity, inclusion and excellence will extend the promise of America to succeeding generations.

Our graduates will be the vanguard of leaders for the next century—committed to sustaining a democracy in which diverse people share in the rights and responsibilities of citizenship, proficient in applying technology to wise purposes, and dedicated to securing a humane world community and sustaining the bounty of the Earth.

As an institution of higher learning

• We will be a high performing, model university in which student achievement levels are among the highest of peer universities;
We will create a community of shared values in which faculty, students, staff, administrators and alumni will experience personal satisfaction and pride in our collective achievements.

We will be the first choice for university applicants who seek a rigorous, collaborative teaching/learning experience in a technologically rich environment;

We will be the leader in enhancing the educational, cultural and economic resources of our region; and

We will receive local and national recognition for our distinctive achievements in teaching, learning, scholarship and service.

**HISTORY**

In the fall of 1956, the San Fernando Valley Campus of the Los Angeles State College of Applied Arts and Sciences was established on the present site of the University. Soon afterward the California Legislature passed Assembly Bill No. 971, which provided that the campus would separate from its parent college July 1, 1958—the founding date of the present University—to become San Fernando Valley State College. At that time it had an enrollment of about 3,300 students with a faculty of 104. On June 1, 1972, the college was renamed California State University, Northridge, by action of the Legislature and the Board of Trustees of The California State University. Today it is the largest residential campus in the CSU system with approximately 10 percent of its enrollment living in dormitories on campus and thousands more in nearby apartments.

**THE UNIVERSITY.** California State University, Northridge, as a community of scholars, has the following educational commitments:

- This University has a responsibility to preserve, foster, and transmit the cultural and intellectual heritage of our pluralistic, interdependent, and changing world.

- This University has a responsibility to foster academic freedom by assuring that its members may express their ideas openly and freely.

- This University has a responsibility to provide a setting in which students may acquire and develop skills of intellectual inquiry and values of human understanding.

- This University has a responsibility to encourage students to realize their greatest creative potential and make substantial contributions to society as educated persons, skilled professionals, and thoughtful citizens.

- This University has a responsibility to provide opportunities for students and faculty to challenge their abilities and to examine critically the values of culture and society.

- This University has a responsibility to cultivate in the student an understanding that the University experience is a segment of a lifelong process of study and learning.

- This University has a responsibility to provide programs that support the admission, retention, and education of populations that have not had equal educational opportunities, and to provide all students with a meaningful range of services, facilities, and opportunities for personal development.

In keeping with these commitments:

1. California State University, Northridge recognizes teaching, research, and public service as its major responsibilities. Of these, undergraduate instruction has first priority. A second major priority is to offer quality graduate and postbaccalaureate instruction and teaching credential programs in areas in which there is particular faculty strength and an important societal need. Research that advances and encourages learning is integral to all instruction and is supported by the University. The University fulfills its major responsibility in public service through its teaching and research. The University also serves its community as a center of culture, science, and technology, and encourages the community to draw on the special talent of its faculty and students.

2. California State University, Northridge recognizes that the primary goals of the instructional program are to increase the ability of the students to learn, to think critically, to express their ideas clearly and cogently, to understand themselves, their culture and their society, both past and present, and to appreciate the multicultural diversity of their world. Students must also demonstrate competency in analytical skills and the methods of intellectual inquiry, and develop an appreciation of aesthetic values.

In keeping with these goals and with Trustee policy the University is committed to providing a foundation in the liberal arts and sciences for all its baccalaureate degrees. The University maintains the quality of this foundation through the high priority placed on the liberal arts and sciences.

Upon this foundation of liberal education, the University offers a choice of courses, majors, minors, and professional and career curricula to meet the needs and interests of its students. The professional and applied fields are an important part of this University. The University offers opportunities in disciplines or fields of study which have proven their value, or which promise a significant new value for society, or which serve a substantial public need, or which can achieve and maintain distinction. The University will limit the variety of its offerings to assure that the programs it offers are of the highest quality possible.

3. California State University, Northridge recognizes that education is not restricted to formal learning in a classroom setting. The University, therefore, supports a wide variety of instructionally related programs designed to provide students with opportunities for diverse human and cultural experiences and for the development of personal skills and creativity.

**NORTHRIDGE CAMPUS**

Campus size: 353 acres. Major Structures: Student Services Building; Art and Design Center; Jeanne M. Chisholm Hall; Business Administration/Education Complex; Engineering Building and Addition; Faculty Office Building; Matador Bookstore; Monterey Hall; Music Building; Oviatt Library; Kinesiology Building; Science Complex and Planetarium; Jerome Richfield Hall (classrooms and faculty offices); Health and Human Development/University Technology Center; Arts, Media and Communication Building; Sierra Hall (classrooms and faculty offices); Speech Communication Building; Speech-Drama Building; Administration Building; Sierra Tower (faculty offices); Solar Observatory (Granada Hills); Student Health Center; University and Satellite Student Unions; University Park Apartments (residences); University Village Apartments (residences).

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1 In 1963, the Board of Trustees of the California State Colleges adopted the following policy: “Since studies in the liberal arts and sciences are the basic offerings of the colleges, these programs, through the master’s degree, are to be provided that level of support necessary to achieve excellence. In considering developments in the applied fields . . . each college has the responsibility to assure that excellence in the arts and sciences is already being achieved, and that other developments will not be at the expense of the total college program.” A MASTER CURRICULUM FOR THE CALIFORNIA STATE COLLEGES, March 8, 1963, P. 6.
CSU NORTH RIDGE AT CHANNEL ISLANDS
One University Drive, Camarillo, CA 93012-8584
Phone: (805) 437-8500 Fax: (805) 437-8509
Website: http://www.ci.csun.edu

California State University, Northridge at Channel Islands is the largest of-campuscenter in the California State University System. More than 1,700 students from Santa Barbara and Ventura Counties are enrolled in upper division, graduate, and credential programs at the Channel Islands campus. Academic programs are offered in a variety of disciplines including business, the humanities, social sciences, and professional fields. Students may complete their degrees or credentials at the Channel Islands campus without commuting to the CSU, Northridge main campus. Courses are offered mornings, afternoons, evenings, and Saturdays to meet the needs of busy and diverse schedules.

In summer 1999, the campus moved from Ventura to a new location, the former Camarillo State Hospital which is now the site of the developing California State University Channel Islands. This gem of 1930’s Spanish Colonial Revival architecture has been meticulously preserved, with renovations striking a careful balance between the buildings’ historical character and the need to create an educational facility for the 21st century. The new campus offers newly equipped computer labs, a library, modern electronically connected classrooms, and expanded spaces for student activities and services. The $11.5 million renovations assure students attending the Channel Islands campus a challenging education in an inspiring setting.

A variety of services and resources are available to students at the Channel Islands campus. A branch of the CSU Northridge library offers electronic access to on-line journal articles, databases, and the University’s library collection. Facilities at the campus enable students to utilize a variety of computer, Internet, and distance learning technologies. Academic and financial aid advisement is available on a regular basis from the on-site advisement staff, in addition to departmental faculty advisor. A Student Health Center is available to students at the campus. A growing range of student services (including those from the offices of the Career Center, Disabled Students, and Veterans Affairs) are available on a regularly scheduled basis.

COLLEGES, DEGREES AND ACCREDITATION

COLLEGES

The eight colleges at California State University, Northridge are: Arts, Media, and Communication; Business Administration and Economics; Health and Human Development; Education; Engineering and Computer Science; Humanities; Science and Mathematics; and Social and Behavioral Sciences.

DEGREES

CSU Northridge, a liberal arts institution, also has substantial programs in technological and professional fields. Bachelor’s degrees currently are given in 58 areas and master’s degrees in 49. (For degree listings, see the Undergraduate and Graduate Programs sections of the catalog.) There are 28 credentials given in the field of education.

ACCREDITATION

CSU Northridge is accredited by the Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC), an institutional accrediting body recognized by the Council on Higher Education and Accreditation and the U.S. Department of Education. For the State of California, CSU Northridge is accredited by the State Board of Education. In 1966 the Student Health Services became the first college health service in the United States accredited by the American College Health Association. It also is accredited by the California Medical Association. Professional degree programs, accredited by national societies and associations, are as follows:

Art.  B.A. / M.A. Degree Programs, by the National Association of Schools of Art and Design (NASAD).

Business Administration. Undergraduate and Graduate Program, by the American Assembly of Collegiate Schools of Business.

Counseling.  M.S. Degree Program, by the Council for Accreditation of Counseling and Related Programs (CACREP).

Chemistry.  B.S. Degree Programs in Chemistry and Biochemistry, by the American Chemical Society.

College Counseling & Student Services.  M. S. Degree Program, by the Council for Accreditation of Counseling and Related Programs (CACREP).


Community Health Education.  Graduate Program, by the Council on Education for Public Health.

Computer Science.  B.S. Degree Program, by the Computer Sciences Accreditation Board.

Deaf Education.  M.A. Degree Program, by the Council on Education of the Deaf (CED).

Education.  Certifications and Graduate Programs, by the National Council for Accreditation of Teacher Education.

Family Environmental Sciences.  B.S. Degree Program, by the California Department of Health Services, and the National Environmental Health Sciences & Protection Accreditation Council. The EOHP is also recognized for its excellence by the American Industrial Hygiene Association.  P.T. Program is accredited by the Commission on Accreditation in Physical Therapy.

Family Environmental Sciences.  B.S. Degree Program, by the Council on Accreditation of the American Association for Family and Consumer Sciences.

Genetic Counseling.  M.S. Degree Program, by the American Board of Genetic Counseling.


Kinesiology.  Athletic Training certified by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

Leisure Studies and Recreation.  B.S. Degree Program, by the National Recreation and Parks Association (NRPA).

Physical Therapy. The Physical Therapy Program is accredited by the Commission on Accreditation in Physical Therapy.

Radiologic Technology. B.S. Degree Program, by the Joint Review Committee on Education in Radiologic Technology, and by the California Department of Health, Radiologic Health Board.

School Counseling. M.S. Degree Program, by the Council for Accreditation of Counseling and Related Programs (CACREP).

Student Health Service. American College Health Association.

Theatre. B.A., M.A. Degree Programs, by the National Association of Schools of Theatre.

SPECIAL PROGRAMS AND FACILITIES

CHINA INSTITUTE, CSU NORTHRIDGE

Speech Communications: 240
Phone: (818) 677-3939

The China Institute facilitates and coordinates CSU Northridge activities related to Chinese institutions. Ongoing activities include exchange of professors, students, scholars, performing artists, books, films and facilities; conducting study and culture tours, coordinating conferences, seminars, lecture series, symposia and internship/trainee programs; and facilitating cooperative research projects and technology transfers. Undergraduate and graduate students interested in pursuing research or study in China on an individual basis may contact the Institute.

COLLEGE OF EXTENDED LEARNING

Bookstore Complex
(818) 677-CSUN

PURPOSE: An important need of the community to which California State University, Northridge responds is continuing access to higher education beyond the typical established patterns of instruction and learning. Through the College of Extended Learning, assistance is given to groups and individuals who seek to improve and update their occupational competencies, as well as enhance their personal and cultural enrichment through educational opportunities other than regular on-campus academic programs.

ADMISSION: The College of Extended Learning in the University is comprised of credit and noncredit programs. Students registering for credit courses in those programs are not required to submit an advance application or transcripts of previous work. However, students are expected to have satisfied the prerequisites for the course in which they register. Admission to credit or noncredit programs does not constitute admission to the regular sessions of the University.

PROGRAMS: The College of Extended Learning Programs are self-supported and administered in accordance with all pertinent state regulations and directives from the Chancellor of The California State University. Each campus of The California State University shall accept in transfer all Extension credits earned, provided that the total does not exceed 24 semester units or 36 quarter units toward an undergraduate degree and 9 semester units or 13 1/2 quarter units toward a graduate degree, and provided that:
1. The credits represent baccalaureate type work as provided for in Executive Order 167.
2. The credits are applicable to the student’s particular degree objective.
3. In the case of Extension credits earned from non-accredited colleges and universities, the appropriate campus authority shall determine their acceptability and applicability as in the case of regular credits earned at such institutions.

GENERAL INFORMATION: The general categories of educational experiences offered are:
1. Regular upper and lower division courses for which the University offers credit for either undergraduate or graduate degree programs. These include special session, summer, or extension courses (through Open University, see below).
2. Postbaccalaureate courses specifically designed for professional needs, designated with “800” course numbers, which carry no credit toward CSUN graduation or credential requirements.
3. Noncredit educational programs such as conferences, seminars, field studies and workshops.
4. Certain subcollegiate programs related to the primary purpose of the University.

College of Extended Learning programs are scheduled during various time periods to accommodate students, including days, evenings, and weekends.

OPEN UNIVERSITY

Students who have not been admitted to the University may register in most university classes with the approval of the instructor and the academic department. Students should attend desired classes for the first week; then, if space is available after the first week of classes, and with faculty approval, students may register at the Extension office, Bookstore Complex, first floor.

The same academic standards, rules and regulations that apply to regular university courses apply to Extension credit programs. All grades earned through Extension credit programs become part of CSU Northridge students' academic records.

SPECIAL SESSION PROGRAMS

This category carries regular resident credit. All classes are planned by the academic departments of the University and include offerings during the day and evening. Special Session courses consist of a planned sequence of courses designated to serve a substantive educational objective.

MASTER OF PUBLIC ADMINISTRATION

This external degree program is designed to provide graduate education in public administration for persons employed in public service. The program does not require a specific undergraduate degree for admission. It is available to graduates of colleges and universities who require professional development to carry out management and administrative responsibilities in public or non-profit agencies.

EXTENDED LEARNING TECHNOLOGY, DESIGN, AND PRODUCTION

Extended Learning Technology, Design, and Production enables the University to establish an electronic network providing education and training to students in Ventura

EXTENDED LEARNING TECHNOLOGY, DESIGN, AND PRODUCTION ALSO HAS ON-LINE INSTRUCTION CAPABILITY FROM ITS DESIGN AND DEVELOPMENT CENTER AND OPERATES TWO-WAY VIDEO-CONFERENCE WITH STATE OF THE ART STUDIO CLASSROOMS. THE UNIVERSITY SATELLITE DOWNLINK IS ALSO SCHEDULED BY THIS OFFICE AND OFFERS STUDENTS AND DEPARTMENTS, AS WELL AS MEMBERS OF THE LOCAL BUSINESS COMMUNITY, ACCESS TO SATELLITE-TRANSMITTED VIDEO TELECONFERENCE PROGRAMS. A LIVE, AUDIO INTERACTIVE CONFERENCE CAN BE BROADCAST VIA SATELLITE ON-CAMPUS IN CLASSROOMS AND/OR CONFERENCE FACILITIES OR DOWNLINKED TO YOUR REMOTE SITE.

SUMMER SESSION
This session is generally divided into at least two six-week periods. In each period, a student may earn up to seven semester units of residence credit at the undergraduate or graduate level. Extension courses and programs also may be offered during this time.

FEES
All Extension and Special Session courses and programs, whether for residence or extension credit, must be self-supporting. The State of California does not provide state funds as it does during the regular semester periods. Thus, all courses must be financed by unit fees. On the average, Special Session fees are $150.00 to $237.00 (subject to approval) per student unit while Extension fees are $150.00 per lecture unit, $180.00 per activity unit and $237.00 per lab unit. All unit fees, including Extension and Special Sessions, are subject to change as determined by the Board of Trustees of the California State University. Information about Extension and Special Sessions is available in the College of Extended Learning, Bookstore Complex, phone (818) 677-CSUN.

DESERT STUDIES CONSORTIUM
Director (714) 278-2428; Science and Mathematics, Dean’s Office (818) 677-2004
The undergraduate and graduate programs in Biology, Geography and Geology are augmented by a desert field station at Soda Springs in the Mojave Desert near Baker, California. The Desert Studies Consortium, of which CSU Northridge is a member, maintains a number of buildings and other facilities housing laboratories, a weather station, a library and living accommodations for students and faculty for short- or long-term field programs.

ENTERTAINMENT INDUSTRY INSTITUTE, CAL STATE UNIVERSITY, NORTHRIDGE
Speech Drama 211
Phone: (818) 677-332
While the Entertainment Industry Institute will be housed in the College of Arts, Media, and Communication, it is a collaborative effort involving the Colleges of AMC, Business Administration and Economics, Engineering and Computer Science, Extended Learning, and the Career Center.

PURPOSE:
• promote, direct, coordinate and provide oversight for campus programs involving the entertainment industry;
• support development of innovative and interdisciplinary curriculum and degree programs by bringing together expertise and perspectives from interested departments and colleges;
• help students realize their educational goals in preparation for career in the entertainment industry;
• coordinate internship opportunities;
• support the development of certificate programs in conjunction with the College of Extended Learning;
• establish the University as a center of research and creative activity related to the entertainment industry;
• promote closer ties between the University and the industry by creating and maintaining substantive partnerships, and by helping the industry learn about the University;
• assist the University in development efforts;
• advance the artistic, cultural and economic life of the surrounding communities.

Through these activities and the connection forged with the increasingly important entertainment industry, the Institute will help gain distinction and recognition for the University.

INTERNATIONAL AND EXCHANGE PROGRAMS
USU SW 113
Phone: (818) 677-3053.

DOMESTIC EXCHANGE: CSU Northridge is a member of the National Student Exchange (NSE) consortium, which provides students with an opportunity to attend one of 150 colleges and universities across the U.S. for a semester or a year, where they earn full academic credit and are not required to pay out-of-state tuition. CSU Northridge accepts an equal number of students from among the NSE member campuses as part of the exchange program.

Application information may be obtained from the Office of Student Development and International Programs located in the Southwest Annex of the USU or by calling (818) 677-3053.

INTERNATIONAL PROGRAMS: Developing intercultural communication skills and international understanding among its students is a vital mission of The California State University (CSU). Since its inception in 1963, the CSU International Programs has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 12,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher learning, the International Programs offers study abroad options in more than 60 countries on five continents for students in more than 100 disciplines.
education in 16 countries, the International Programs also offers a wide selection of study locales and learning environments.

**Australia**  The University of Western Sydney

**Canada**  The universities of the Province of Quebec including Université de Montréal, Concordia University, Université Laval, McGill University, Université du Quebec system, Bishop’s University, i.a.

**Denmark**  Denmark’s International Study Program (the international education affiliate of the University of Copenhagen)

**France**  Institut des Études Françaises pour Étudiants Étrangers, Université de Droit, d’Économie et des Sciences d’Aix-Marseille (Aix-en-Provence) Mission interuniversitaire de coordination des échanges franco-américains, Universités de Paris III, IV, V, VI, VII, VIII, IX, X, XI, XII, XIII, and the Institute of Oriental Languages and Civilizations Università degli Studi di Firenze, and a number of institutions of higher education in the Federal state of Baden-Württemberg

**Germany**  Universität Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg

**Israel**  Tel Aviv University

**Italy**  CSU Study Center (Florence), Università degli Studi di Firenze, and La Accademia di Belle Arti di Firenze

**Japan**  Waseda University (Tokyo)

**Korea**  Yonsei University (Seoul)

**Mexico**  Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro

**New Zealand**  Lincoln University (Christchurch) and Massey University (Palmerston North)

**Spain**  Universidad Complutense de Madrid and Universidad de Granada

**Sweden**  Uppsala Universitet

**Taiwan**  National Chengchi University (Taipei)

**United Kingdom**  Bradford University, Bristol University, Kingston University, Sheffield University, University of Hull, and University of Wales, Swansea

**Zimbabwe**  University of Zimbabwe (Harare)

International Programs pays all tuition and administrative costs for participating California resident students to the same extent that such funds would be expended to support similar costs in California. Participants are responsible for all personal costs, such as transportation, room and board, living expenses, and home campus fees. Participants remain eligible to receive any form of financial aid (except work-study) for which they can individually qualify.

To qualify for admission to the International Programs, students must have upper division or graduate standing at a CSU campus by the time of departure. Students at the sophomore level may, however, participate in the intensive language acquisition programs in France, Germany, and Mexico. California Community Colleges transfer students are eligible to apply directly from their community colleges. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply. Some programs also have language study and/or other coursework prerequisites.

Additional information and application materials may be obtained from the CSU Northridge Office of Student Development and International Programs or by writing to

The California State University International Programs, 401 Golden Shore, Sixth Floor, Long Beach, California 90802-4210. Visit us on the World Wide Web at: www.gateway.calstate.edu/csuienet/

**INTERNATIONAL STUDENT PROGRAMS:** The Office of Student Development and International Programs provides services to all international students after they have been formally admitted to the University. The Office will assist international students in (1) choosing a pattern of courses for general education requirements, and referring them to the appropriate department for academic advising in their major field of study, (2) complying with the laws and regulations of the U.S. Immigration and Naturalization Service; and (3) dealing with academic or personal problems. The Office also coordinates cultural and social events so that international students can share their national heritage with the campus educational community. A special orientation program is provided at the beginning of each semester to assist international students in adjusting to the campus environment and to American customs. For information, call (818) 677-3053.

**OVERSEAS STUDY:** The CSU International Programs (IP), the official study overseas unit of The California State University system, offers students the opportunity to continue their studies at a distinguished foreign university or a special study center in one of 17 countries. While on IP, students remain enrolled at CSU Northridge, thus maintaining home campus residency and financial aid eligibility, and they earn full academic credit.

The Office of Student Development and International Programs, in conjunction with Academic Affairs and the Office of Graduate Research and International Programs, also offers a semester-long program in Holland, at the University of Twente in the City of Enschede. This is a one-to-one exchange program especially designed for students majoring in Business Administration. In addition to Dutch language classes, students select major courses which are taught in English. In addition, a one-to one exchange program with the College of College of Business and Management Studies in Budapest, Hungary is available for Business Administration majors. All courses are taught in English.

The cost for these programs is affordable, since students pay only CSU Northridge registration fees and are not required to pay foreign tuition. Please contact the Office of Student Development and International Programs for more information by calling (818) 677-3053 or by visiting the Southwest Annex of the Student Union.

**AIR FORCE RESERVE OFFICERS TRAINING CORPS (ROTC) PROGRAM**

Students attending Cal State University, Northridge can participate in Air Force ROTC at one of the Southern California host detachment locations, the closest of which is at UCLA. For more information, contact the UCLA Department of Aerospace Studies, which is the primary support program for Cal State Northridge students, at (310) 825-1742. Other ROTC detachments are located at the University of Southern California, (213) 740-2670; Loyola Marymount University, (310) 338-2770; and California State University, San Bernardino, (909) 880-5440. Two-, three- and four-year scholarships are available, many of which pay the full cost of tuition, books and administrative fees. Summer field training stipends are also available. Students should be aware that the armed services adhere to a “don’t ask, don’t tell” policy with respect to sexual orientation.
PACE PROGRAM  (Program for Adult College Education)
SH 443
Phone: (818) 677-6562
PACE at CSUN is an upper division accelerated course of study geared to meet the needs of the busy working student who wants to graduate within two years with a baccalaureate degree. For available PACE major offerings and other information, please call the PACE office, email: sheryl.thompson@csun.edu, or visit our webpage at: http://www.vcsun.org/~sheryl/pace.html

S.P.I.C.E. PROGRAM
USU SW Annex
Phone: (818) 677-3053
The Office of Student Development and International Programs administers an exciting program whose goal is to globalize education at CSU Northridge. The program, entitled “Student Panels for an International Curriculum and Education” or SPICE, consists of panels of international students who are invited by instructors to visit their classroom and share international perspectives on course subjects. Participating international students are eligible to receive a limited number of tuition waiver units.

SAN FERNANDO OBSERVATORY
14031 San Fernando Road
Sylmar, CA 91342
Phone: (818) 367-9333
The San Fernando Observatory is a modern solar observatory donated to CSU Northridge by the Aerospace Corporation in 1976. Located in the Upper Van Norman Reservoir near Sylmar, the Observatory is used by staff and students of the CSU system for instruction and research. Some of the current activities involve the study of changes in solar irradiance caused by sunspots and related magnetic features, and the study of the formation and structure of sunspots. The research activities are supported primarily by grants from the federal government. The main instrument at the Observatory is a 24-inch aperture vacuum telescope with a high resolution vacuum spectroheliograph. A number of computers are used for data acquisition and analysis of digital images. Undergraduate and graduate students in physics and related fields make extensive use of this facility.

SOUTHERN CALIFORNIA MARINE INSTITUTE
Director (310) 519-3172; Science and Mathematics,
Dean’s Office (818) 677-2004
The University is a member of the Southern California Marine Institute (SCMI) that is a consortium combining the marine resources of several universities in Southern California. SCMI operates four coastal research vessels, including the RV Yellowfin, and a fleet of smaller boats to support teaching and research. Use of the Wrigley Marine Science Center on Santa Catalina Island also is provided through SCMI. Science programs utilize these facilities and individual students gain access to the Institute operations through courses and independent study.

UNIVERSITY GOVERNANCE AND ADMINISTRATION

THE CALIFORNIA STATE UNIVERSITY
The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act of 1960. In 1972 the system became The California State University and Colleges and in 1982 the system became The California State University.

The oldest campus—San José State University—was founded as a Normal School in 1857 and became the first institution of public higher education in California. The most recently opened campus – California State University, Monterey Bay, began admitting students in the fall of 1995. A new site has been conveyed and a 23rd campus, CSU Channel Islands, is being formally established in Ventura County.

Responsibility for The California State University is vested in the Board of Trustees, consisting of ex officio members, alumni and faculty representatives, and members appointed by the Governor. The Trustees appoint the Chancellor, who is the chief executive officer of the system, and the Presidents, who are the chief executive officers of the respective campuses.

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

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

The CSU offers more than 1,600 bachelor’s and master’s degree programs in some 240 subject areas. Many of these programs are offered so that students can complete all upper-division and graduate requirements by part-time, late afternoon and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California.

In fall 1998, the system enrolled approximately 350,254 students, taught by more than 19,500 faculty. The system awards more than half of the bachelor’s degrees and 30 percent of the master’s degrees granted in California.

Some 1.84 million persons have been graduated from CSU campuses since 1960.
14 INTRODUCTION: CALIFORNIA STATE UNIVERSITY, NORTH RIDGE 2000-2002

THE CALIFORNIA STATE UNIVERSITY TRUSTEES
EX OFFICIO TRUSTEES
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Governor of California
State Capitol
Sacramento 95814
The Honorable Cruz Bustamante
Lieutenant Governor of California
State Capitol
Sacramento 95814
The Honorable Antonio Villaraigosa
Speaker of the Assembly
State Capitol
Sacramento 95814
The Honorable Delaine Eastin
State Superintendent of Public Instruction
721 Capitol Mall
Sacramento 95814
Dr. Charles B. Reed
Chancellor of the California State University
400 Golden Shore
Long Beach 90802-4275

THE CSU OFFICERS OF THE TRUSTEES
The Honorable Gray Davis
President
Joan Otomo-Corgel
Vice Chair
William Hauck
Chair
Christine Helwick
Secretary
Richard P. West
Treasurer

APPOINTED TRUSTEES
Appointments are for a term of eight years, except for student, alumni, and faculty trustees, and a faculty Trustee, whose terms are for two years. Terms expire in the year in parentheses. Names are listed in order of appointment to the Board.
Martha C. Fallgatter (2003)
William D. Campbell (2003)
Anthony M. Vitti (2005)
DeeDee Myers (2005)
Fred Pierce (2000)
Robert Foster (2006)
William Hauck (2001)
Dr. Joan Otomo-Corgel (2000)
Michael D. Stennis (2000)
Ali C. Razi (2001)

Correspondence with Trustees should be sent:
c/o Trustees Secretariat
The California State University
401 Golden Shore
Long Beach, CA 90802-4210

OFFICE OF THE CHANCELLOR
The California State University
401 Golden Shore
Long Beach, California 90802-4210
(562) 951-4000
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Chancellor – CSU System
Dr. David S. Spence
Executive Vice Chancellor and Chief Academic Officer
Dr. Charles W. Lindahl
Associate Vice Chancellor, Academic Affairs

Ms. Jackie McClain
Vice Chancellor, Human Resources
Mr. Richard P. West
Executive Vice Chancellor, and Chief Business Officer
Dr. Douglas X. Patiño
Vice Chancellor, University Advancement
Ms. Christine Helwick
General Counsel

CAMPUS - THE CALIFORNIA STATE UNIVERSITY
California State University, Bakersfield
9001 Stockdale Highway
Bakersfield, California 93311-1099
Dr. Tomás A. Arciniega, President
(661) 664-2011
California State University, Channel Islands
P.O. Box 2862
Camarillo, CA 93010-2862
Mr. J. Handel Evans, President
(805) 643-2585
California State University, Chico
400 West First Street
Chico, California 95929-0150
Dr. Manuel A. Esteban, President
(530) 898-6116
California State University, Dominguez Hills
1000 East Victoria Street
Carson, California 90747-0005
Dr. James E. Lyons, President
(310) 243-3300
California State University, Fresno
5241 North Maple Avenue
Fresno, California 93740
Dr. John D. Welty, President
(559) 278-4240
California State University, Fullerton
800 N. State College Blvd.
Fullerton, California 92834-9480
Dr. Milton A. Gordon, President
(714) 278-2011
California State University, Hayward
25800 Carlos Bee Blvd.
Hayward, California 94542
Dr. Norma S. Rees, President
(510) 885-3000
Humboldt State University
Arcata, California 95521-8299
Dr. Alistair W. McCrone, President
(707) 826-3011
California State University, Long Beach
1250 Bellflower Boulevard
Long Beach, California 90840-0115
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(562) 985-4111
California State University, Los Angeles
5151 State University Drive
Los Angeles, California 90032
Dr. James M. Rosser, President
(323) 343-3000
California Maritime Academy
200 Maritime Academy Dr.
Vallejo, California 94590
Mr. Jerry Aspland, President
(707) 654-1000

California State University, Monterey Bay
100 Campus Center
Seaside, California 93955-8001
Dr. Peter P. Smith, President
(831) 582-3330

California State University, Northridge
18111 Nordhoff Street
Northridge, California 91330
Dr. Jolene Koester, President
(818) 677-1200

California State Polytechnic University, Pomona
3801 West Temple Avenue
Pomona, California 91768
Dr. Bob Suzuki, President
(909) 869-7659

California State University, Sacramento
6000 J Street
Sacramento, California 95819
Dr. Donald R. Gerth, President
(916) 278-6011

California State University, San Bernardino
5500 University Parkway
San Bernardino, California 92407-2397
Dr. Albert K. Karmig, President
(909) 880-5000

San Diego State University
5300 Campanile Drive
San Diego, California 92182
Dr. Stephen L. Weber, President
(619) 594-5200

San Francisco State University
1600 Holloway Avenue
San Francisco, California 94132
Dr. Robert A. Corrigan, President
(415) 338-1111

San José State University
One Washington Square
San José, California 95192-0001
Dr. Robert L. Caret, President
(408) 924-1000

California Polytechnic State University, San Luis Obispo
San Luis Obispo, California 93407
Dr. Warren J. Baker, President
(805) 756-1111

California State University, San Marcos
333 S. Twin Oaks Valley Road
San Marcos, California 92096-0001
Dr. Alexander Gonzalez, President
(760) 750-4000

Sonoma State University
1801 East Cotati Avenue
Rohnert Park, California 94928-3609
Dr. Ruben Armiñana, President
(707) 664-2880

California State University, Stanislaus
801 West Monte Vista Avenue
Turlock, California 95382-0299
Dr. Marvalene Hughes, President
(209) 667-3122

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UNIVERSITY ADMINISTRATION 2000-2002
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Executive Assistant to the President .................. Randy Reynaldo
Special Assistant to the President for Institutional Equity and Diversity ...................................... vacant
Director, Governmental Relations ..................... Dorena Knepper
Director, Athletics ................................................ Richard M. Dull

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Assistant to the Director ........................................ Raul Aragon
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Coordinator, Program Review ............................... Fatty Faiman
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Associate Dean ...............................................................Susan Parker
Library Systems Administrator .................................Eric Willis
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Dept. Chair, Technical Services .................................Doris Helfer

COLLEGES AND DEPARTMENTS

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Manager, Academic Resources ..............Winslow Rogers
Student Resource Center/EOP Director ......Maria Valiton
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Communication Studies, Department Chair Don Brownlee
Journalism, Department Chair .....................Cynthia Rawitch
KCSN, General Manager .........................René Engel
Music, Department Chair .......................Jerry Luedders
Radio-Television-Film, Department Chair John Schultheiss
Theatre, Department Chair ......................Jerry Abbitt

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Director of Graduate Programs ................Melanie Williams
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Management Science, Department Chair Albert Kinderman
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Director, Credential Preparation Office .....Carolyn Hood
Deaf Studies, Coordinator .....................Lawrence Fleischer
Educational Leadership and Policy Studies, Interim Department Chair ............................Antonia Sims

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE
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Electrical and Computer Engineering, Department Chair Nagwa Bekir
Mechanical Engineering, Department Chair Sidney Schwartz

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Executive Director, Public Relations, Marketing, and Communications .........................Marcella Tyler
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Child Development, Coordinator ..................Carol Kelly
Communication Disorders and Sciences, Department Chair .........................J. Stephen Sinclair
Family Environmental Sciences, Department Chair ................................Alyce Blackmon
Gerontology, Coordinator .........................Allen Martin
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Leisure Studies and Recreation, Interim Department Chair ......................Veda Ward

COLLEGE OF HUMANITIES
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Associate Dean ..................................Gregory Velazco y Trianosky
Manager, Academic Resources ..............Teresa Castro-Oistad
Academic Advisement Center/EOP, Coordinator ...Shelly Thompson
Asian American Studies, Department Chair Enrique de la Cruz
Central American Studies, Coordinator ..........Roberlo Lovato
Chicano Studies, Department Chair ...............Gerald Resendez
Classical Greek & Roman Civilization, Coordinator .....................John Adams
English as a Second Language, Coordinator ........Sharon Klein
Humanities, Coordinator .........................Donald E. Hall
Jewish Studies, Coordinator .......................Jody Myers
Liberal Studies, Coordinator .......................Naomi Bishop
Linguistics, Coordinator .........................Sharon Klein
Modern and Classical Languages and Literatures, Department Chair .................Edda Spielmann
Philosophy, Department Chair ..................Ronald McIntyre
Religious Studies, Department Chair ..............Cecil Douglas
Women’s Studies, Department Chair ................Elizabeth Say

COLLEGE OF SCIENCE AND MATHEMATICS
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Chemistry, Department Chair .....................Sandor Reichman
Earth Sciences, Coordinator .....................John Sloan
Genetic Counseling, Director ..................Aida Metzenberg
Geological Sciences, Department Chair ..........George Dunne
Academic Preparedness Program, Director Warren Furumoto
Mathematics, Department Chair .................Magnhild Lien
Physics and Astronomy, Department Chair ........Adrian Herzog

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES
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Associate Dean ..................................Virginia Lussier
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Associate V.P., Development..............................Murray Wood
Controller and Director,
Operations CSUN Foundation .........................Marilyn Mindoro
Director, Corporate and Foundation Relations .......Millie Loeb
Assistant Director,
Corporate and Foundation Relations ................Gary Groth
Director, Alumni Relations ..........................D.G. “Gray” Mounger
Assistant Director, Alumni Relations .................Shellice Smith
Director, Annual Fund..................................Sarah Blom
Director, Campaigns ......................................vacant
Director, Governmental and Community Relations ..........vacant
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Community Relations & Calendar Office ..............Judith Nutter
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Public Relations & Communications .............Richard R. Tyler
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Editorial Director .........................................vacant
Director, Publications ....................................Randal Thomson
Director, Stewardship & Events .....................Rachel Gulliver Dunne
Managing Editor, @CSUN.edu .........................John Chandler

INFORMATION TECHNOLOGY RESOURCES
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Director of Administration & Finance ................Sharon Eichten
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Director of Personnel ..................................Camille Brooks
The University Corporation is a nonprofit California corporation chartered in 1958 to operate within the CSU system but without State funds. The University Corporation was organized to serve and assist the University by providing certain commercial services, such as the Matador Bookstore and University Corporation Foodservices. The University Corporation also coordinates community-oriented, non-credit workshops, conferences and institutes, and fiscally administers Federal, state, local and other projects.

THE UNIVERSITY CORPORATION
Bookstore Complex, Second Floor
Phone: (818) 677-2906
Executive Director ..................................Thomas McCarron
Acting Controller ..................................Elizabeth Soto
Retail Operations Manager .........................Dean Calvo

The University Corporation is a nonprofit California corporation chartered in 1958 to operate within the CSU system but without State funds. The University Corporation was organized to serve and assist the University by providing certain commercial services, such as the Matador Bookstore and University Corporation Foodservices. The University Corporation also coordinates community-oriented, non-credit workshops, conferences and institutes, and fiscally administers Federal, state, local and other projects.

Students, faculty members, administrators and individuals from the community constitute the Corporate Membership of this auxiliary organization. At the Annual meeting, held in the fourth quarter, the Corporation’s Membership elects a seventeen-member Board of Directors responsible for establishing the policies of The University Corporation. The Board of Directors meets quarterly. Five of the
Corporation’s seven officers comprise the Executive Committee and are elected by the Directors at the fourth quarterly meeting. The Executive Committee meets on a monthly basis to manage the business affairs of the Corporation.

THE CALIFORNIA STATE UNIVERSITY, NORTHRIDGE FOUNDATION

The California State University, Northridge Foundation is a group of distinguished men and women who have pledged themselves to support the educational mission of the University. The Foundation Board is representative of the economic, geographic and cultural diversity of the San Fernando Valley region. The Foundation provides leadership and guidance to the University’s fund raising activities, and, in doing so, helps to maintain the “margin of excellence” in the university’s programs.

The Board of Directors of the Foundation are (1999-00) are:

OFFICERS:
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Ralph A. Courtney, III, Deputy Public Defender, IV Los Angeles County Public Defender
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Earl S. Enzer, Vice President, Goldman Sachs
David W. Fleming, of Counsel, Latham & Watkins
Jorge Garcia, Dean, College of Humanities, California State University, Northridge
Dirk I. Gates, President & CEO, Xircom, Inc.
Richard E. Gilbert, Attorney, Freeman, Freeman & Smiley
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Robert Hanff, President, Associated Students, Inc. California State University, Northridge
Myrtle Whitsett Harris, Community Leader
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Albert M. Lapides, Vice Chair, California State University, Northridge foundation; President, Replacement Parts Industries, Inc.
Philip S. Magaram, Attorney/Principal, Valensi, Rose & Magaram, PLC
Georgia L. Mercer, Community Leader
Alan F. Meyer, Retired Entrepreneur
Catherine Mulholland, Community Leader
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I. Allan Oberman, President, Alumni Association, Attorney at Law
William Outhouse, President, California State University, Northridge Foundation
Debra Papageorge, Vice President and Regional Manager, Fisher Investments, Inc.
Sanford Paris, Owner, Paris Industrial Park
Barbara Perkins, Community Leader
Joy Picus, Former L.A. City Council Member & Community Leader
James David (Dave) Power, III, Chairman, J.D. Power and Associates
Bob Rawitch, Vice President, Winner, Wagner & Associates
Robin Rousselet, Chair, President’s Associates, Chief Financial Officer, The Voit Companies

Don R. Rudkin, Partner, Deloitte & Touche LLP
Philip Rusche, Dean, College of Education, California State University, Northridge
Donald K. Skinner, Chairman & CEO, Zebra Technologies
James F. Sullivan, Interim V.P., Administration and Finance, California State University, Northridge
Pierre Y. Tada, President and CEO, Limoneira Co.
Murray Wook, Executive Director and Secretary, California State University, Northridge Foundation

DIRECTORS EMERITI:
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S.Q. DellaGrotta, Senior Vice President, Sentinel Real Estate Corp.
Howard E. Haller, ’70 (B.A. Political Science), President & CEO, Haller Companies
Manfred Mosk, Chairman, Techno-Medics Inc.
Anthony J. ‘Tony’ Partipilo
Jural C.P. Rhee (Deceased)
Albert Zoraster (Deceased)

THE CALIFORNIA STATE UNIVERSITY, NORTHRIDGE ALUMNI ASSOCIATION & OFFICE OF ALUMNI RELATIONS

Northridge, CA  91330-8375
Phone: (818) 677-2137    Fax: (818) 677-4823
Email: gray.mounger@csun.edu
Website: http://www.csun.onlinecommunity.com

The mission of the Alumni Association of California State University, Northridge is to develop and sustain support for the University by the identification, information and involvement of the university’s former students. In addition, the Association develops opportunities, programs and benefits to enable alumni to continue their college experience. Anyone who has completed 12 units of course work at Cal State Northridge and is no longer attending the university is considered an alum in good standing.

The Alumni Program is governed by the Alumni Association Board of Directors, an advisory board elected by alumni at the association’s annual meeting. The executive committee of the Board sanctions committees comprised of both board members and interested alumni volunteers. These committees advise and support the efforts of the Office of Alumni Relations in providing avenues for alums to participate in campus events, to mentor students, to network with peers for personal or professional enhancement, and to support higher education in the public arena.

The Office of Alumni Relations and the Alumni Association generate royalty and affinity income in support of its programs as well as supporting other advancement needs of departments and colleges at the University. the alumni program is constituency based and coordinates student and program involvement of the university’s former students. In addition, the Association develops opportunities, programs and benefits to enable alumni to continue their college experience. Anyone who has completed 12 units of course work at Cal State Northridge and is no longer attending the university is considered an alum in good standing.

The Alumni Program is governed by the Alumni Association Board of Directors, an advisory board elected by alumni at the association’s annual meeting. The executive committee of the Board sanctions committees comprised of both board members and interested alumni volunteers. These committees advise and support the efforts of the Office of Alumni Relations in providing avenues for alums to participate in campus events, to mentor students, to network with peers for personal or professional enhancement, and to support higher education in the public arena.

The Office of Alumni Relations and the Alumni Association generate royalty and affinity income in support of its programs as well as supporting other advancement needs of departments and colleges at the University. the alumni program is constituency based and coordinates student and recent graduate programs to enhance the college experience. The CSUN Alumni Association has become one of the most honored alumni programs in the CSU system, having won three awards in 1999-2000 by CASE (Council for Advancement and Support of Education), more than any other alumni program in the Western United States.

The Officers of the Association are:
President: Dave Novak
Past President: Allan Oberman
Executive Committee: Arlene Alpert, Gene Detchemedy, Anthony Ferguson, Irene Tovar
Alumni Staff: D. G. “Gray” Mounger, Director Shellie Smith, Associate Director Barbara Wetherby, Assistant
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OFFICE OF THE VICE PRESIDENT FOR STUDENT
AFFAIRS
Administration Park 702
Phone: (818) 677-2391

The Office of the Vice President for Student Affairs is responsible for the overall quality of student life at California State University, Northridge. The Vice President and his staff provide coordination and direction to the Division of Student Affairs and work closely with other components of the campus to ensure that programs, services, policies, and procedures foster the development of students and the achievement of their academic and career goals. The office is responsible for the coordination of Honors Convocation and University Commencement Exercises. Matters related to student conduct and academic integrity also fall within the purview of the Vice President for Student Affairs. In addition, responsibility for compliance with the provisions of the Americans with Disabilities Act (ADA), has been delegated to this Office.

Programs within the Division of Student Affairs include the Career Center, Residential Life and University Conference Services, Student Development and International Programs, Student Health Center, Students with Disabilities Resources, Student Outreach and Recruitment, University Counseling and Testing Services, Associated Students, University Student Union, National Center on Deafness, and Financial Aid.

The Office of the Vice President for Student Affairs serves as the official university liaison to the Associated Students and the University Student Union.

All students, particularly those unaware of which university office or resource would best be able to aid them with their problems or concerns, are welcome to visit the office for appropriate referral and advisement.

THE CAREER CENTER
University Student Union, Second Floor
Phone: (818) 677-2878 TDD: (818) 677-3066
http://www.csun.edu/career

The Career Center guides career development and decision-making through counseling, educational programs, and information for a diverse community of students and alumni. The Center provides opportunities for volunteering, internships, and jobs to help identify and develop interests and skills. The Career Center staff establishes partnerships with the community-at-large, employers, academic departments, student services and organizations to empower students to achieve career success.

Career Counseling is provided by a professional staff individually and in groups.

A Career Planning Model provides direction by promoting:
1. Self Assessment
2. Career Exploration
3. Decision Making
4. Action Plan

A state-of-the-art Career Library provides computerized guidance through SIGI and FOCUS. Job Listings provide employment opportunities via the Jobtrak including part-time, full-time, and internship opportunities - both paid and non-paid. The Volunteer Program connects students to volunteer opportunities on campus and in the community. Books, videos, directories, and Career Monographs for each major available in the career library guide students in choosing a career. Employer notebooks and Career Consultants are available for applicants planning to interview.

In addition to publications, The Career Center offers many workshops, Career Conferences, and Career Fairs to assist students with career planning and placement. Counselors lead groups in: Resume Critique, Interview Techniques, Practice Interviews, Career Assessment, Getting Hired and Making Job Fairs Work.

Services are provided to currently enrolled CSU students at no charge. Fees are charged to graduates and to university students enrolled through Extended Learning/CSU Northridge, and referrals from campus and community.

Visit us on the internet: http://www.csun.edu/career
INTERCOLLEGIATE ATHLETICS
East of the Kinesiology Building
Phone: (818) 677-3208
The University offers a broad program of competitive sports for both men and women student athletes. Teams compete at the NCAA Division I level, with most sports competing in the Big Sky Conference. For more information turn to the Intercollegiate Athletics Courses of Study section in the catalog.

POLICE DEPARTMENT
UPA Building 14, 1st floor
Phone: (818) 677-2111
Emergency (on-campus): 9-911
The University Police Department provides law enforcement services to the university community and is open 24 hours a day/six days a week. All reports of criminal activity, fire, injury, or hazards should be reported to the department immediately.
The department is staffed with sworn Peace Officers that have full police powers, and are trained and equipped to handle emergencies on the campus. All state laws, codes and regulations are enforced on the campus.
In addition, the department is the answering point for the 911 system on campus. Dialing 9-911 on any campus phone or 911 on a pay phone or residence phone places you in contact with the department, which has the capability of summoning the appropriate aid to help you.
The police department provides many programs and services to reduce the risk of becoming a victim of crime. Please call for more information.

PARKING SERVICES
UPA Building 14, Room 105
Phone: (818) 677-2157
The Parking Services Department is responsible for the day to day operations of campus parking. The goal of Parking Services is to provide students, faculty, staff and visitors a user-friendly environment and a professional attitude on the part of its employees.
All students must purchase the appropriate parking permit before parking in designated parking lots for students. Students may also consider metered and daily permit parking for their convenience. It is strongly recommended that students arrive to campus early since parking is limited during our earthquake recovery period. All rules and regulations about parking enforcement can be obtained at the campus information booths and parking office.

RESIDENTIAL LIFE AND UNIVERSITY CONFERENCE SERVICES
On-Campus Housing
CSU Northridge Housing Services
University Park Apartments
17950 Lassen Street - Bldg. 6
Telephone: (818) 677-2160
CSU Northridge resident students experience the independence of apartment-style living combined with the benefits of being part of a diverse residence hall community. The community features furnished two-bedroom suites complete with living and dining area, kitchen or study area, bathroom and private balcony. In addition, each unit is cable TV ready and has access to the campus computer network systems. "The Park" provides its residents with recreational space, swimming pools, parking, laundry facilities, and study areas. A variety of meal plan options are available at the Satellite Student Union. Several Theme Halls are available including the Technology Education and Communications Hall, First Year Experience, The Neighborhood (for older non-traditional students), Talking Hands hall, P.E.A.C.E. Hall (for cultural education), P.R.O.G.R.E.S.S. Hall for leadership enhancement, and the Wellness Hall.
By choosing to live in "The Park", students also embark upon a unique, exciting and challenging journey. CSU Northridge residents become a part of the campus community and gain the opportunity to meet and live with people of diverse cultural backgrounds.
Applications for housing are accepted prior to official admission to CSU Northridge. To obtain further information, including costs, contact the Student Housing Office at (818) 677-2160 for an application. Tours are also available to interested students; appointments may be made by calling the above number.
The Student Housing Office also supervises several other programs, which benefit CSU Northridge residents and the campus community. Information on the following programs may be obtained by calling the above number:

RESIDENTIAL LIFE PROGRAM
An extensive residential life program, coordinated by a professional staff, promotes the personal, social, and academic growth of resident students through the implementation of many different programs and activities. Residents can develop their leadership skills through involvement in the Resident Hall Association (R.H.A.), and numerous employment opportunities.

UNIVERSITY CONFERENCE PROGRAM
A conference program, coordinated by a professional staff, provides groups and organizations with housing and meeting space for business gatherings, seminars, camps, and even reunions. The program coordinator can also arrange for all dining, catering, parking, and facility arrangements.

GUEST HOUSING PROGRAM
A guest housing program provides hotel-style arrangements for short term visits to the University. Completely furnished suites with telephone, television with cable, and housekeeping services provide convenient and comfortable accommodations for University guests, visitors and campus community members seeking housing at nightly rates.

FACULTY, STAFF, AND MARRIED STUDENT HOUSING PROGRAM
Long term housing arrangements can be made for faculty and staff members, as well as students who meet the following eligibility guidelines: Students are eligible if they are at least thirty years of age or married or have dependent children living with them or have extraordinary circumstances and written approval by Housing officers.

RESIDENTIAL COMPUTING RESOURCES PROGRAM
A Residential Computing Resources Program offers residents technology and computing support. Four computer labs are available for residents’ use, giving access to PCs, Macs, various software and Internet access. In-room data connections are also available through this program for residents who own their own computers, and several educational programs provide learning opportunities on issues related to technology and computing.
**STUDENT DEVELOPMENT AND INTERNATIONAL PROGRAMS**

University Student Union  
Phone: (818) 677-2393 (Student Development)  
(818) 677-3053 (International Programs)

The Student Development and International Programs (SD&IP) staff supervises numerous programs, which include:

- Clubs, Organizations/Program Planning and Development
- Commencement/Honors Convocation
- Cultural Awareness Programs
- Domestic Exchange
- Fraternities and Sororities
- International Students Programs
- Leadership Institute
- Orientation Programs
- Overseas Study
- Permits for Field Reservations, Fundraising and Flyer Placement
- Student Panels for an International Curriculum and Education (S.P.I.C.E.)
- Student Development Transcript Program

**CLUBS, ORGANIZATIONS/PROGRAMS PLANNING AND DEVELOPMENT**

The Student Development staff offers consultation on programs, assistance with group dynamics and leadership development, information on existing University policies, guidance on financial matters and the maintenance of organizational records. Advisors frequently serve as liaisons among students, administration, faculty and the community at large. More than 200 clubs and organizations represent academic, vocational, professional, religious, service, hobby, and social interests. Information on social fraternities and sororities may also be obtained from this office.

**COMMENCEMENT/HONORS CONVOCATION**

The capstone of Commencement and Honors Convocation are held after each spring semester. For more information call (818) 677-3112.

**DOMESTIC EXCHANGE**

CSU Northridge is a member of the National Student Exchange (NSE) consortium, which provides students with an opportunity to attend one of 107 colleges and universities across the U.S. for a semester or a year, where they earn full academic credit and are not required to pay out-of-state tuition. CSU Northridge accepts an equal number of students from among the NSE member campuses as part of the exchange program. Application information may be obtained from the Office of Student Development and International Programs or by calling (818) 677-3053.

**FRATERNITIES AND SORORITIES**

Fraternities and sororities offer options for student involvement and personal development. Besides social functions, these organizations are also involved in community service projects.

**INTERNATIONAL STUDENT PROGRAMS**

The staff provides services to all international students after they have been formally admitted to the University. The Office will assist international students in (1) choosing a pattern of courses for general education requirements, and referring them to the appropriate department for academic advising in their major field of study, (2) complying with the laws and regulations of the U.S. Immigration and Naturalization Service; and (3) dealing with academic or personal problems. The Office also coordinates cultural and social events so that international students can share their national heritage with the campus educational community. A special orientation program is provided at the beginning of each semester to assist international students in adjusting to the campus environment and to American customs. For information, call (818) 677-3053.

**LEADERSHIP INSTITUTE**

The Leadership Institute provides leadership development and personal growth experiences to members of campus clubs and organizations. Programs and workshops are developed to meet the needs of student leaders. Reference materials are available and seminars are conducted on a variety of leadership topics. Other interest areas include the Emerging Leaders Programs, which was established to provide students with a unique opportunity for personal development, community building and leadership development.

**ORIENTATION**

Information is available on Orientation programs for entering freshmen, transfers as well as graduate students. Students interested in applying for Student Orientation Leader positions should call (818) 677-2393.

**OVERSEAS STUDY**

The CSU International Programs (IP), the official study overseas unit of The California State University system, offers students the opportunity to continue their studies at a distinguished foreign university or a special study center in one of 16 countries. While on IP, students remain enrolled at CSUN, thus maintaining home campus residency and financial aid eligibility, and they earn full academic credit. The cost for these programs is affordable, since students pay only CSU Northridge registration fees and are not required to pay foreign tuition. For more information call (818) 677-3053 or by visiting the office.

**THE STUDENT DEVELOPMENT TRANSCRIPT PROGRAM**

The Student Development Transcript Program encourages a holistic approach to developmental learning by enabling students to be intentional in their choices for out-of-classroom experiences, or co-curricular involvement. The program prepares students for their future by planning a personalized curriculum guide of co-curricular involvement that will allow students to develop life-long skills such as communication, human relations, and leadership, all of which are necessary to function in a global society and workplace. As a result of participation in the program, students will be able to request their developmental transcript which documents, semester by semester, the personalized co-curriculum of experiences and skills realized from their involvement on campus. The Student Developmental Transcript is a separate document from the academic transcript.

**STUDENT PANELS FOR AN INTERNATIONAL CURRICULUM AND EDUCATION (S.P.I.C.E.) PROGRAM**

An exciting program whose goal is to globalize education at CSU Northridge. The program, Student Panels for an International Curriculum and Education, consists of panels of international students who are invited by instructors to visit their classroom and share international perspectives on course subjects. Participating international students are eligible to receive a limited number of tuition waiver units. More information may be obtained by calling the office at (818) 677-3053 or visiting the office.
STUDENT HEALTH CENTER

East of the Bookstore,
South of the University Student Union
Appointments: (818) 677-3493
Health Education: (818) 677-3693
Emergencies: (818) 677-2111
For Hearing Impaired: TTY (818) 677-3692

The Addie L. Klotz Student Health Center provides basic medical care for illnesses and injuries. Specialty clinics include dermatology, orthopedics, urology, counseling, ENT, podiatry, sports medicine and women's health. In addition, the Student Health Center maintains a low cost pharmacy, a laboratory, X-ray facilities, and a physical therapy unit.

The medical and nursing staff of the Student Health Center are specialists trained to deal with the health problems of students.

The health education and promotion division offers preventive and educational services for a variety of student needs and includes programming on birth control, sexually transmitted infection prevention, AIDS education, alcohol and other drug abuse prevention, nutrition and weight control, CPR, and smoking cessation.

For further information, call (818) 677-3693.

The Health Center’s hours of operation are 8:00 a.m. to 5:00 p.m. on Mondays, Thursdays, and Fridays, and 8:00 a.m. to 6:30 p.m. on Tuesdays and Wednesdays. An appointment can be made by calling (818) 677-3493, or students can be seen on a walk-in basis between 8:00 a.m. and 4:30 p.m. on Mondays, Thursdays and Fridays, or between 8:00 a.m. and 6:00 p.m. on Tuesdays and Wednesdays. The Student Health Center is closed on University holidays and weekends; however, patients are seen on a walk-in basis during school breaks and the summer session. Students should call ahead for hours of operation during these times.

Eligible CSU Northridge students may obtain medical care at any CSU campus student health center.

EMERGENCY CARE

24 hour emergency care on a fee for service basis is available at Northridge Hospital, located approximately 2 miles from campus at 18300 Roscoe Blvd., Northridge (Phone: (818) 677-8500). It is also available at Granada Hills Community Hospital, located approximately 5 miles from campus at 10445 Balboa Blvd., Granada Hills (Phone: (818) 360-1021). TREATMENT AT HOSPITAL.

EMERGENCY ROOMS IS AT THE STUDENT’S EXPENSE.

MEASLES REQUIREMENT

New and re-admitted students are required to show proof of immunity to measles (Rubella) and rubella (German Measles) within their first semester at CSUN. Submit medical documentation to the Student Health Center that both vaccinations were received since age one or receive the vaccination at no charge at the Student Health Center. Students will not be allowed to register for a second semester until this requirement has been completed.

HEPATITIS REQUIREMENT

Beginning with Fall 2000 semester, new students aged 18 or under will be required to provide proof of full immunization against the hepatitis B virus prior to enrollment. Students who have not yet started or completed the series of 3 vaccinations will be given a grace period in which to comply.

The series takes 7 months to complete and must be completed before the end of the second semester or you will not be allowed to register for your second year until this requirement is met. If the series is completed before your 19th birthday, the Student Health Center can provide your immunizations free of charge. After age 19, the charge is approximately $35 per immunization.

STUDENT HEALTH INSURANCE

Student health insurance is available through the Associated Students for services not provided by the Student Health Center, such as hospitalization, surgery, and maternity care. The purchase of student health insurance by students not covered by their parent or spouse’s health insurance is strongly recommended. For more information about Student Health Insurance, call the Associated Students at (818) 677-2389.

TREATMENT OF MINORS

If students are under 18 years of age, it is required that they submit a signed Parental Consent form to the Student Health Center prior to receipt of SHC services. This form can be obtained at the SHC. This requirement does not apply to emancipated minors who can document their status as such.

STUDENTS WITH DISABILITIES RESOURCES

Student Services Center, Room 190
Phone: (818) 677-2967
Email: outreach.recruitment@csun.edu

Students with Disabilities Resources (SDR) at California State University, Northridge provides a variety of support services to empower students, foster independence, promote achievement of realistic career and educational goals and assist students to discover, develop and demonstrate full potential and abilities. SDR provides academic support under federal and state regulations to insure full access to programs and activities at California State University, Northridge. These services include:

• Disability management advisement
• Reader services
• Notetaker services
• Proctor services and testing accommodations
• Transcription services such as providing Braille and large print materials not available through other sources
• Specialized orientation to acquaint students with the campus environment
• On-campus mobility and access assistance
• Computer Assessment and Training Services to introduce students with disabilities to computers and specialized assistive technologies
• APEX - Academic Performance Enhancement Experience (study skills program)

Additional services include a new student orientation program; liaison with the Department of Rehabilitation, and referral to on-campus and off-campus resources.

STUDENT OUTREACH & RECRUITMENT SERVICES (SOARS)

Student Services Center, Room 190
Phone: (818) 677-2967
Email: outreach.recruitment@csun.edu

Student Outreach and Recruitment Services provides outreach, recruitment and informational services primarily to
secondary school students and community college students. Services include information, recruitment, admissions and pre-enrollment advisement aimed at undergraduate students. University involvement in the coordination and implementation of these student services include: Freshman Programs, Transfer Services, Guest Relations and Information Resources. Moreover, Student Outreach and Recruitment administers pre-collegiate programs for middle and high school students, elementary school children, parents.

Community Services are offered to agencies, business and industry enterprises. Outreach and recruitment coordinates university-wide admissions and pre-enrollment activities to include: On-site priority admissions on campus and at selected high schools and community colleges, University days, University Open House, Evening with Northridge, community Reaching Community Receptions, College Making It Happen family conference, University Preview Days.

SOARS currently administers and collaborates on a number of academic preparation initiatives such as the Pre-Collegiate Academic Development Program (PAD), GEAR UP Improvement and Achievement Act.

CAMPUS TOURS
Guided tours of the campus are provided by University Ambassadors to individuals and groups on Monday through Friday 10:00 am and 2:00 pm. Evening tours are offered Wednesdays and Thursdays at 6:00 pm; Saturday tours are offered the first and third Saturday of the month at 10:00 am by appointment only. A self guided tour is also available. For tour reservations, email: tours@csun.edu.

ADMISSIONS -- PRE-ENROLLMENT INFORMATION
To request admissions information and/or campus information email: outreach.recruitment@csun.edu.

UNIVERSITY COUNSELING & TESTING CENTER
UNIVERSITY COUNSELING SERVICES
Student Services Building (SB520) 5th floor
Phone: (818) 677-2366 or TDD(818) 677-7834
University Counseling Services (UCS) offers confidential/crisis counseling and psychological services to the campus community. All services are designed to assist students in achieving academic success and to create a campus environment that is sensitive to student psychological and developmental needs. The following list are examples of services and programs currently available:

- Adult Resource & Re-Entry Program
- ACT (Advocates for Cultural Talk) Theatre
- Consultation
- Crisis Counseling
- DATE Project (rape prevention)
- Dispute Resolution Center (DRC)
- Employee Assistance Program (EAP)
- Graduate Training Program
- Groups/Workshops
- Helpline
- JADE (Joint Advocates on Disordered Eating)
- Major/Career Choice
- Personal Counseling
- Suicide Prevention
- Testing

Counseling services are available free of charge to all regularly enrolled university students. An individual counseling appointment can usually be scheduled within a matter of days. We have counselors available throughout the day to deal with emergency situations. For further information please, please call or refer to our University Counseling Services Brochure.

TESTING CENTER
Student Services Building (SSB225), 2nd Floor
Phone: (818) 677-2369
A wide variety of tests are available as an adjunct to the counseling process. The Testing Center also administers all major National, CSU and local academic testing programs.

OFFICE OF VETERAN STUDENT SERVICES
Admissions and Records, HH1173B
Phone: (818) 677-5928
The Office of Veteran Student Services acts as a liaison to the Veterans Administration Regional Office for veterans or dependents. A student may receive information and assistance regarding certification of benefits, tutorial services, V.A. Work-Study, advance pay, and problems related to V.A. educational benefits. Academic and V.A. counseling is also provided. For more information contact the Office of Admissions and Records (818) 677-5928.

ASSOCIATED STUDENTS, INC.
Southwest Expansion, University Student Union, Room 100
Phone: (818) 677-2477
All registered students are members of the Associated Students of California State University, Northridge. This incorporated campus entity is governed by elected student leaders including a President, Vice President and a 28-member Senate. The senate sets policy, governs financial matters, provides student service programs, provides input on University policies and recommends students to serve on University advisory boards.

All students are assessed a semestery fee which generates revenue to support over 200 clubs and organizations, leadership programs, Intercollégiate Athletics and Financial Aid. Associated Students provides a Ticket Office, the University Recycling Program, student health insurance, and a wide variety of cultural programs, concerts, films, and a speakers series. Other major programs include the following:

RECREATIONAL SPORT AND FITNESS CENTER
Intramurals Building, West Side of the Kinesiology Building.
Phone: (818) 677-3225
Associated Students offers strong intramural and extra mural programs for the enthusiast who wants to participate in organized sports, but not on the Intercollégiate Athletic level. Many team and individual sports and special event programs are offered for individuals, men’s, women’s, and coed leagues.

Many of the Sports Clubs participate on an intercollegiate basis through local and national tournament competition. Ice hockey, karate, Alpine and water skiing, lacrosse, and bowling are just a few of the sports offered through this program.

The Fitness Center is a joint partnership program with the University Student Union. The facility offers state-of-the-art equipment, free weights room, aerobics classes, and an Olympic-sized, outdoor swimming pool to students, faculty, staff, and community members.

CSU NORTH RIDGE CHILDREN’S CENTER
18345 Plummer Street
Phone: (818) 677-2012
(Department of Social Service # 191290363)
Under the joint sponsorship of the University and Associated Students, the Children’s Center provides child development facilities for the children of students formally
admitted and currently enrolled at California State University, Northridge. The Center has the capacity to care for 78 children; and is open (7:30 am until 5:30 pm) for day care service for two to five year olds, and after school care for kindergarten and first graders everyday that classes are in session. Fees are based on the parents’ gross monthly income. Because the Children’s Center is a state campus child development center, some subsidized openings may be available. Applications are available through the Center.

THE WOMEN’S CENTER
9520 Etiwanda Avenue
Phone: (818) 677-2780 V/TDD

The CSU Northridge Women’s Center was established to help campus and community women and men deal with living in a sexist society and to help change that society. The Women’s Center allows members of the campus community to share ideas and experiences in a supportive atmosphere, and to obtain information on services and programs. The Center’s referral system provides valuable free information on medical and child care, legal aid, counseling, and employment. The lending library contains pamphlets, newsletters, magazines and news clippings. Speakers or films are presented on a regular basis.

Informal, non-credit classes are offered for free or at minimum cost in areas such as self defense and health and consciousness raising.

UNIVERSITY STUDENT UNION
University Student Union on Lindley Ave.
Satellite Student Union, 9851 Zelzah Ave.
Phone: (818) 677-2491 (USU); (818) 677-2890 (SSU)

The University Student Union (USU) serves as the community center of the California State University, Northridge campus, providing students with programs and services designed to assist them in their academic pursuits, and provide opportunities for cultural and social interaction.

Two facilities are available to serve the campus community. The main building, located just east of the Oviatt Library, includes a convenience store, fitness center, swimming pool, dining facilities, computer lab, graphic design services, meeting and event rooms, a Performing Arts Center, gamesroom, study lounge space, postal services, copy center, and retail outlets. The Satellite Student Union (SSU), located adjacent to University housing, features a gamesroom, computer lab, meeting and event rooms, convenience store, dining facilities, and a television lounge.

The University Student Union and the Satellite Student Union offer a number of programs specifically geared toward students, including a film series, live concerts, comedy programs, 24-hour studying for finals, aerobic classes, and other special events. In addition, over 150 part-time employment opportunities are available to students, with positions ranging from entry-level to management.

The University Student Union is governed by a student-run, non-profit corporation. Students may run for positions on the board annually. In addition, students may serve as members of the board’s standing committees and programming boards.

Program and service information is available at the University Student Union and Satellite Student Union...

NATIONAL CENTER ON DEAFNESS
Jeanne M. Chisholm Hall
Phone: V/TDD 677-2611; (818) 677-2614

Since 1962 the National Center on Deafness has pioneered in serving students who are deaf or hard of hearing at the University level. Today the Center is internationally recognized for its programs for students who are deaf or hard of hearing. NCOD provides interpreting, notetaking, real-time captioning, tutoring, and counseling services to students who are deaf or hard of hearing. Each semester approximately 240 students who are deaf or hard of hearing have access to University classes, functions and student sponsored activities.

Under a contract with the U.S. Department of Education, NCOD also offers technical advice and training on how to provide quality services to postsecondary institutions currently serving or planning to serve students who are deaf or hard of hearing in western USA. The CSUN model for providing service to students who are deaf or hard of hearing is shared with the western regional postsecondary institutions (colleges, universities, technical schools, and training programs) as well as with the other three U.S. Department of Education sponsored regional technical assistance centers throughout the United States.

The NCOD resource center which also serves as the resource center for all regional technical assistance centers in the country is located on the second floor of Jeanne M. Chisholm Hall. The resource center contains materials on the history, education, and rehabilitation of persons who are deaf or hard of hearing. The collection of books, reports, periodicals, pamphlets, and signed or captioned media serves educators, interpreters, the community-at-large, and students from numerous CSUN and other university academic departments who use the materials for papers and projects relating to deafness or people who are deaf or hard of hearing.

FINANCIAL AID AND SCHOLARSHIP OFFICE
Main Lobby Student Services Building, located at Vincennes and Etiwanda Streets
Phone: (818) 677-3000; (818) 677-3764 V/TDD

The Office of Financial Aid and Scholarships is here to help you make a college degree attainable and more affordable for you and your family.

Financial aid awards and services are not based on race, color, national origin, age, gender, marital status, religion, sexual orientation, or disability. We are here to help all students achieve their academic goals.

If you are disabled and require special accommodations, please ask us. Sign language interpreters can be requested from the National Center on Deafness.

HOW WE CAN HELP YOU
Cal State Northridge has four types of aid available to students and their families: grants, work-study, loans and scholarships. Most financial aid is funded by the federal government, with the state government and private donors providing the balance.

Funds available through the Financial Aid Office include:

FEDERAL LOANS - These need-based and non-need-based funds must be repaid upon leaving the university or dropping below half-time enrollment. The Free Application for Federal Student Aid (FAFSA) and a separate loan application are required. A loan entrance counseling session is required for all new borrowers.
FEDERAL AND STATE GRANTS - These need-based funds do not need to be repaid. To apply, complete a FAFSA.

FEDERAL WORK-STUDY - These need-based funds must be earned through authorized work experience. You must complete the FAFSA before you can be awarded these funds by the Financial Aid Office.

SCHOLARSHIPS - The required separate application for University Scholarships is available in the Financial Aid Office. The scholarship application deadline is March 2. A free computerized scholarship search process is available on the internet: “www.csun.edu/finaid/”.

SHORT-TERM LOANS - Students enrolled in the University and who are current in paying their fees may borrow up to $300 for unanticipated expenses. Funds must be repaid the same semester. Applications are available in the Financial Aid Office and the Student Financial Services office.

WHAT YOU NEED TO DO
Submit the Free Application for Federal Student Aid (FAFSA) no earlier than January 1 and no later than March 2 for priority consideration. Request that Cal State Northridge receive the results. Our Title IV Code is 001153. This form is used to determine your eligibility for all federal funds and to assess your need for funding.

Submit all additional forms requested by the Financial Aid Office as soon as possible. Many funds are all awarded before the school year begins.

Request scholarship information and an application from our office. Ask about off-campus scholarship information.

All students are eligible for some financial funding. Do not delay. Act today!

SATISFACTORY ACADEMIC PROGRESS: Financial Aid recipients will be provided with a copy of this policy annually. An annual review of progress toward an eligible degree or certificate is required by federal, state, and institutional rules as one condition for determining student financial aid eligibility. If you fail to meet these standards, you have not made satisfactory academic progress and, as a result, are not eligible for financial aid funding unless you correct the situation. You will be required to seek academic advisement.

ADDITIONAL INFORMATION
Please visit our website at: www.csun.edu/finaid/ for current information.

You can call our Touch-tone Financial Aid System at (818) 677-3000 for up-to-date general information about financial aid and scholarships, as well as specific information about your financial aid file.

FINAL TIPS
• Know the deadlines and apply early
• Respond immediately to requests for documents
• Read everything you receive carefully. If you don’t understand, ASK!!
• Keep copies of everything you mail and create a special file for Financial Aid documents.
• If you are unsure whether your file is complete, phone the touch-tone system to check your status.

Please update your address with Admissions and Records to ensure receipt of important correspondence. Don’t forget to inform our office of any changes in housing plans or enrollment status. Financial Aid Awards are based on full-time enrollment. Most adjustments for less than full-time are made after the semester begins. You must be enrolled in the proper number of units or aid will not be disbursed. You must stay enrolled to maintain eligibility. In some cases, you may be required to repay Financial Aid.

FOR MORE INFORMATION
Financial Aid Office
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330-8307
Phone (818) 677-3000
Office Hours: Monday and Thursday: 8:30 am to 5:00 pm
Tuesday and Wednesday: 10:00 am to 7:00 pm
Friday: 8:30 am to 4:00 pm

TELEPHONE NUMBERS:
Touch Tone Financial Aid ..................................... (818) 677-3000
Work Study/Scholarship Office ........................ (818) 677-4907
Admissions & Records Office ............................ (818) 677-3700
Touch Tone Registration.................................. (818) 677-3000
Advising Resource Center/EOP........................ (818) 677-2108
Student Financial Services ............................... (818) 677-2306
Cash Management Office..................................(818) 677-2318
University Information.....................................(818) 677-1200
National Center on Deafness (V/TDD) ...............(818) 677-2614
California Student Aid Commission .................(818) 677-2614
Cal Grants/Graduate Fellowships ....................(916) 445-0880
ED FUND Default Hotline...............................(800) 367-1589
Pell Grant/SAR Inquiries.................................(319) 337-5665
(Duplicate SAR)
Selective Service...........................................(708) 688-6888
Federal Student Aid Information Center..........(800) 433-3243

WITHDRAWING FROM THE INSTITUTION
Students who are receiving financial aid funds must consult with the Financial Aid Office prior to withdrawing from the university regarding any required return or repayments of grant or loan assistance received for that academic term. If a recipient of financial assistance under federal Title IV financial aid programs withdraws from the institution during a payment period, the amount of grant or loan assistance received is subject to return and repayment provisions governed by federal law.
UNDERGRADUATE PROGRAMS
I. Advising, Computers, Libraries, and Tutors: Academic Support for Students

The Four-Year Degree Pledge Program

Freshmen entering the university can take the four year degree pledge and, by fulfilling its requirements, graduate in four years.

Declare A Major. Students must declare a major and be accepted by the major department. (Some majors are limited in size and cannot accept new students.) Students who change their major may be required to withdraw from the pledge program because they may be unable to complete their new major in four years.

Complete All Examinations. Students must complete all qualifying examinations: ELM, EPT, and other course placement tests, as needed.

Academic Advisement. Students must obtain academic advisement from a designated four-year pledge advisor each semester and follow the agreed-upon course of study.

31-35 Units Each Year. Students must complete 31-35 units each year to ensure meeting the necessary unit requirement for graduation with a minimum 2.0 cumulative grade point average and a 2.0 grade point average in their major. Some programs may require summer enrollment in order to complete the degree in four years.

Make Satisfactory Progress. Participants are expected to receive grades sufficient to allow registration into the next level of required courses. Course may be taken on another campus if they are approved by the pledge advisor prior to registration.

II. Bachelor’s Degrees

Bachelor’s Degree Requirements

General Education

Information Competence Skills

Major Requirements

Title 5 Requirements in American History & Government

Writing Skills

Grade Point Average

Residency Requirement

Total Units

Unit Distribution

Faculty Approval: Clearance for Graduation

Degree Programs

How to Apply for Your Bachelor’s Degree

Double Major

Minor

Second Bachelor’s Degree

Special Major

ENROLL EACH SEMESTER. Students who take the four year degree pledge must enroll each semester at their assigned registration times.

Applications may be obtained in the Office of Undergraduate Studies, AP 706, (818) 677-2969.

Academic Advisement

Choosing a Major

Choosing a Major means deciding on your area of academic specialization. Your major will function as your academic home at the university, so you will want to decide on a major as soon as possible (and no later than the beginning of your junior year). Faculty in your major will give you any needed academic advising, and will likely be your best source for letters of reference if you decide to go on to graduate or professional school, or when you are ready to apply for a job. You must formally notify the University of your choice of major, either by declaring your major on your application form or by filing a Change of Major form with Admissions and Records. CSU Northridge offers students a choice of over fifty different undergraduate majors.

Most majors will require that you complete at least 45 units of your bachelor’s degree in the major field. Some require substantially more units. Factors to consider when you’re choosing your major include your own personal interests; your academic strengths; faculty advice; and career or professional goals. Your major will be printed on your transcript and your diploma when you graduate from the University.

Freshman and sophomore students who are undecided about their major may enroll in “undecided” status. However, once you have earned 60 units or more—
CHOOSING A MINOR
Many students decide that they would benefit from a MINOR, a formal program of study in a field other than their major. The name “minor” refers to the smaller size and significance of the program as compared with your major. A minor may be required of students in certain majors, but for most students, it is optional. Students who voluntarily choose a minor typically do so either from personal interest in the minor field, or because a minor can provide them with a recognized field of secondary expertise or knowledge that may be attractive to employers and to graduate or professional schools. If you plan to complete a minor, you should choose it as early as possible in your college career so that you can elect General Education classes that may satisfy requirements for both GE and the minor simultaneously. You must formally notify the University when you choose a minor by filing a Change of Minor form with Admissions and Records. The name of your completed minor will be recorded on your transcript when you graduate from the University.

CHOOSING CLASSES
Prior to the start of each Touch Tone Registration period, students should obtain an appropriate Schedule of Classes and plan a tentative program of study for the coming semester. Students should ensure that they meet all prerequisites and consider all requirements for each course in their program of study. Certain departments and special programs require students to receive advisement before accessing TTR; all students, regardless of major, should review their tentative program with a faculty advisor before registering for classes. Undecided students should consult with an advisor from the Advising Resource Center/EOP. Students participating in the Educational Equity Program should contact the appropriate College-based Equity Program.

FACULTY ADVISORS
Students should seek a faculty advisor in their major field. Faculty advisors are available in each department prior to registration and at regular intervals during the semester. They are prepared to assist and advise students in the selection of a balanced academic program of courses compatible with their background and future plans. However, the primary responsibility for course registration rests with the student. Students should consult departmental listings in the catalog for further information on academic advisement.

FINDING FACULTY
Except for emergency absences or approved modifications to the class schedule, faculty members are responsible for meeting all assigned undergraduate and graduate courses in accordance with the University Schedule of Classes. Faculty office hours for appointments are scheduled, announced in class, posted, and on file in departmental offices.

PRE-PROFESSIONAL ADVISEMENT
Students planning to pursue graduate work should supplement their undergraduate program by anticipating language requirements at graduate schools and by intensive work in areas inside and outside the college of their major that are of special relevance to their intended graduate program. Students should consult their advisors to ensure that they make a wise selection of courses.

PRE-DENTISTRY: There is no specific pre-dental major at CSU Northridge, but most students accepted into dental school have majored in biology or chemistry. The Dental Admission Test is required, and most students admitted to dental school have a baccalaureate degree. The courses listed below are the minimum requirements for most dental schools. To enroll in the first courses in Biology, Chemistry, English, and Physics, appropriate prerequisites must be met. Check catalog course descriptions for prerequisites.

PRE-DENTAL CURRICULUM—MINIMUM REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 106, 106L</td>
<td>Biological Principles I, II</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 101, 101L</td>
<td>General Chemistry I, II</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 102, 102L</td>
<td>General Chemistry I, II</td>
<td>8</td>
</tr>
<tr>
<td>PHYS 100A, 100AL</td>
<td>Principles of Organic Chem. I, II</td>
<td>8</td>
</tr>
<tr>
<td>CHS, ENGL or PAS 155</td>
<td>Freshman Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 255</td>
<td>Introduction to Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Many schools recommend or require additional courses (e.g., another year of biology courses, biochemistry, psychology). A broad exposure to the arts and humanities is encouraged. For more information, consult a pre-dental advisor and obtain a copy of “Admission Requirements of U.S. and Canadian Dental Schools,” American Association of Dental Schools, 1625 Massachusetts Ave., NW, Washington, DC 20036-2212. Website: www.aads.jhu.edu

PRE-LAW: Law schools typically do not recommend any particular undergraduate major over any other. Hence, there is no program specifically designated by the University as the only appropriate course of studies to pursue in preparation for the study of law. Some generalizations regarding preparation at the undergraduate level may be made, however. The pre-law student should seek to develop a mastery of the English language, a critical understanding of the values and institutions with which the law deals, and the ability to think creatively and independently. Mastery of the English language encompasses the ability to convey meaning clearly, effectively, and concisely, as well as the ability to grasp the precise meaning of factual statements. Coursework which strengthens writing, reading, speaking, and listening skills is strongly recommended. The pre-law student should study the values and institutions of our society. The economic systems of societies, their political organizations, their social and cultural structures are all valuable areas of inquiry for the pre-law student. An appreciation for the democratic process in western societies is helpful, as is an exposure to the business community.

The power to think clearly, carefully, and independently is valuable to the student pursuing legal studies. Skill in research, in analysis of relevant data, in deductive and inductive reasoning, and in reasoning by analogy fosters the law student’s power to think creatively. Coursework which demands development of the skill of creative thinking will prove helpful to every law student, regardless of the discipline in which such coursework is pursued. The cultivation of these skills and insights is not the province of any one discipline at the University. Choice of
major should be governed by the student’s interests and abilities in light of the comments above suggesting the importance of a broad background.

**PRE-MEDICINE:** Pre-health professional students may select any major in the sciences or humanities provided they include the courses required by the professional schools. The premedical adviser will counsel students planning to study medicine (www.aamc.org), osteopathy (www.aacom.org), podiatry (www.aacpm.org), chiropractic (www.chirocolleges.org), physician assistance (www.aapa.org), dentistry (www.aads.jhu.edu), optometry (www.opted.org), pharmacy (www.aacp.org), and veterinary medicine (www.avma.org).

Competition for entrance into the health-professional schools is intense. Undergraduate and postbaccalaureate students are encouraged to seek advice of the appropriate pre-professional adviser throughout enrollment at the University regrading proper preparation for the professional schools.

A suggested premedical curriculum for California medical schools is given below. For more information, consult a premedical adviser, study the book “Medical School Admission Requirements” published by the Association of American Medical Colleges, 2450 N Street, NW, Washington, DC 20037, and visit the website <http://www.aamc.org>.

Premedical Office: Science Building 2224
Phone: (818) 677-4600
Premedical Adviser: Dr. Daisy Kuhn, Biology Department

**PREMEDICAL CURRICULUM — CALIFORNIA MEDICAL SCHOOLS**

**LOWER DIVISION**

Students are advised to take both the Mathematics and Chemistry Placement Tests (MPT and CPT) before registration, and to note the course prerequisites, so courses at the appropriate level can be selected.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 205</td>
<td>Landmarks of Art.................3</td>
</tr>
<tr>
<td>BIOL 106, 106L</td>
<td>Biological Principles I, II......8</td>
</tr>
<tr>
<td>CHEM 101, 101L</td>
<td>General Chemistry I, II.........10</td>
</tr>
<tr>
<td>PHYS 100A/AL, 100B/BL</td>
<td>General Physics I, II...........8</td>
</tr>
<tr>
<td>MATH 255A, 255B</td>
<td>Calculus I, II..................6</td>
</tr>
<tr>
<td>MATH 150A</td>
<td>Mathematical Analysis I........5</td>
</tr>
<tr>
<td>ENGL 255</td>
<td>Introduction to Literature......3</td>
</tr>
</tbody>
</table>

**UPPER DIVISION**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 360</td>
<td>Genetics..........................3</td>
</tr>
<tr>
<td>BIOL 441</td>
<td>Embryology........................4</td>
</tr>
<tr>
<td>CHEM 333, 334</td>
<td>Principles of Organic Chemistry I, II......8</td>
</tr>
<tr>
<td>CHEM 464</td>
<td>Principles of Biochemistry......4</td>
</tr>
</tbody>
</table>

**RECOMMENDED STUDIES**

Medical schools emphasize the humanities and social sciences as well as conversational Spanish, computer skills and statistics. It is imperative to develop critical thinking and verbal reasoning skills.

Factors considered by professional schools reviewing applicants for admission include grade point average, scores on professional school entrance examinations (MCAT, DAT, OAT, GRE), previous experience in related fields, recommendations from faculty members and supervisors, and interviews with applicants. Students should plan to take the MCAT in the spring rather than in the summer of the year of application.

**PROBATION**

All students on academic probation are required to meet with an academic advisor each semester they are on probation. Touch Tone Registration holds placed on registration will be released only after students have received advisement. Declared majors will receive advisement from their academic department. Undecided students will receive advisement in the Advising Resource Center/EOP.

Students on academic probation may register for a maximum of twelve (12) units in a given semester. Additional units may be approved by students’ major advisors or, in the case of Undecided students, the Director of the Advising Resource Center/EOP.

**ADMISSIONS AND RECORDS, OFFICE OF**

SB 520
Phone: (818) 677-5552

The Office of Admissions and Records serves the University as a unit of the Academic Affairs Division in preadmission advising, processing applications for admission, admitting eligible applicants, registering students in classes, establishing and maintaining academic records of students, and evaluating students’ academic records for graduation.

**ADULT RESOURCE AND RE-ENTRY PROGRAM**

SB 520
Phone: (818) 677-5552

The Adult Resource and Re-Entry Program provides counseling, information, support groups and workshops for all adult CSU Northridge students. In addition, individual counseling is available by appointment to discuss career goals and personal issues or to find out about campus resources.

**ADVISING RESOURCE CENTER/EOP**

SB 210
Phone: (818) 677-2108

The Advising Resource Center/EOP provides support services to all Undecided students. Theses services include academic advisement (both one-on-one and in small group format), career and major selection guidance, mentoring, life management advisement, graduate studies exploration, problems with academic status, and personal referrals.

ARC/EOP staff includes professional advisors, faculty interns, graduate interns, and specially trained peer-advisors.

**EDUCATIONAL OPPORTUNITY PROGRAM/SUMMER BRIDGE**

AP 706
Phone: (818) 677-4151

The Educational Opportunity Program provides admissions for first generation and environmentally, educationally and economically disadvantaged students. EOP ensures that admissions, transition and retention services are provided across the University to its students through EOP Satellites such as the Advising Resource Center/EOP for undecided students and the College-based EOP Satellites for students with declared majors. Two additional programs provided by EOP are the Summer Bridge Program, designed to assist admitted students in their transition to the University (Summer Bridge eligibility is determined by the financial and academic needs of the students) and the University
Faculty Mentor Program, which facilitates ongoing connections between faculty and students.

**EOP SATELLITES**

**EOP ADVISING**

All EOP students with declared majors are advised through one of the following College-based EOP satellite programs and the appropriate academic department. (For advising information for undecided students, see Advising Resource Center/EOP above.)

**COLLEGE OF ARTS, MEDIA, AND COMMUNICATION**

Music 150

Phone: (818) 677-2024

**THE STUDENT RESOURCE CENTER/EOP** is a comprehensive effort designed to serve students enrolled in the College of Arts, Media, and Communication. In an effort to develop a community of talented students, the College is committed to providing services to students to facilitate their success in their majors.

The Student Resource Center/EOP seeks to build a network in which students can benefit from the strengths and talents of faculty, staff, and peers. We encourage participants to become part of our “family” and take advantage of the resources of academic advisement, personal support and educational opportunity program services. By availing themselves of this opportunity while at the university, students gain a greater understanding of community and enrich their lives.

**COLLEGE OF BUSINESS ADMINISTRATION & ECONOMICS**

BB 2113

Phone: (818) 677-3537

The **BUSINESS STUDENT EQUITY CENTER** provides recruitment and retention services for students with special needs, through two programs:

The **BUSINESS EDUCATIONAL OPPORTUNITY PROGRAM** is a satellite of the University’s Educational Opportunity Program (EOP). This program supports the needs of economically, educationally, and environmentally disadvantaged students.

The Business Student Equity Center is a support organization created to enhance recruitment, retention, and career placement of the diverse student population in the College of Business Administration and Economics. This Center provides academic advisement for all students in the College.

**COLLEGE OF EDUCATION**

ED 1222

Phone: (818) 677-3002

**THE BILINGUAL MULTICULTURAL INTERDISCIPLINARY COMMITTEE:** BMIC develops policies regulating the Bilingual Credential Program and provides direction in interdisciplinary areas of the University’s bilingual teacher training program. It supports students seeking bilingual proficiency through tutoring and workshops. For more information contact the College of Education (818) 677-2590.

**COMPREHENSIVE TEACHER INSTITUTE:** CTI is a collaborative effort between CSU Northridge and the Los Angeles Unified School District to train teachers for multiethnic/multilingual schools. Under this program, teacher preparation begins with the students’ third year of University work and continues through to their second year of full-time professional teaching. Special emphasis is placed on the multicultural/multilingual needs of the school districts where students will be interning. Paid internship are allowed students who are accepted into the program as undergraduates. Upon graduation they become “teaching-fellows,” working part-time as student teachers and part-time as paid teachers with a limited “emergency” teaching credential. Upon completion of teacher certification, CTI will assist them in obtaining permanent jobs and will continue to provide guidance and support in their classrooms for two years. For more information contact: Dr. Susan Wasserman, Director, (818) 677-4601 or (818) 677-2590.

**THE COLLEGE OF EDUCATION EQUITY COMMITTEE:** The Equity Committee seeks to improve the recruitment and retention of underrepresented students in the College of Education. For more information contact: Alex Lucero, Director, College of Education Equity Committee, (818) 677-3002 or 677-2590.

**COLLEGE OF ENGINEERING AND COMPUTER SCIENCE**

EN 2101

Phone: (818) 677-2191

**THE STUDENT DEVELOPMENT AND EQUITY CENTER** includes the following two programs:

**EDUCATIONAL OPPORTUNITY PROGRAM SATELLITE (EOP)** which provides academic advisement, workshops, and career exploration and development for all EOP students majoring in Engineering or Computer Science, and individual tutoring for the entire College.

**MINORITY ENGINEERING PROGRAM (MEP)** which provides a wide range of student services, including transition assistance from high school to the University, freshman orientation experiences, academic advisement, individual tutoring and academic excellence workshops, scholarship information, career development, and a network of students and alumni to help promote student success. MEP also works with the student chapters of professional organizations such as the National Society of Black Professional Engineers (NSBE) and the Society of Hispanic Professional Engineers (SHPE) to encourage opportunities for student leadership for its members.

This externally funded program has been repeatedly commended for its comprehensive recruitment of and retention focus on African-American, Latino and Native American students in the rigorous academic disciplines of engineering and computer science. Begun in 1973 with only 20 students, the program is now a community of more than 500 students and is recognized as the original model and the most successful program of its kind in California.

**COLLEGE OF HEALTH AND HUMAN DEVELOPMENT**

Sierra Hall 461

Phone: (818) 677-2883

**THE HHD STUDENT SERVICES CENTER/EOP** is a comprehensive effort designed to assist in the recruitment, retention and graduation of students majoring in Child Development, Communication Disorders and Sciences, Family Environmental Sciences, Health Sciences, Kinesiology, and Leisure Studies and Recreation.

Services offered by the program include orientation workshops, academic advisement, personal counseling, peer advisement, faculty mentoring, etc. Students are encouraged to actively participate in the programs and services within the College and major disciplines. The various student organizations provide valuable resources and opportunities for academic enrichment and career networking.
Services offered by the program are designed to meet student needs and to facilitate success in the various disciplines represented in the College. For more information contact the College of HHD Student Services Center/EOP at (818) 677-2883.

COLLEGE OF HUMANITIES
Jerome Richfield 102
Phone: (818) 677-4767

The ACADEMIC ADVISEMENT CENTER/EOP offers a wide variety of support services which include advisement in General Education and major requirements, free tutorials, faculty and department referrals, term paper assistance, computer access for students, faculty mentor activities, as well as graduate school and career information. Students may seek advisement through one on one appointments with advisors, or they may seek assistance via email, telephone or fax. The Center also offers extended hours to meet the needs of evening students. Liberal Studies majors should meet with the advisors in the Liberal Studies Program to access these services.

Dedicated and knowledgeable faculty and staff have created a successful academic advising structure in the College of Humanities. Students are strongly encouraged to meet with an advisor in the Academic Advisement Center/EOP or the Liberal Studies Program and a faculty member in their chosen major. This partnership provides students with all of the information they need to meet their academic goals.

COLLEGE OF SCIENCE AND MATHEMATICS
SC 2126
Phone: (818) 677-4558

THE SCIENCE AND MATHEMATICS ADVISEMENT CENTER/EOP SATELLITE (SMAC/EOP) provides comprehensive advisement services to students pursuing majors in the College of Science and Mathematics. It also serves as a satellite office for the Educational Opportunity Program (EOP). Services include class scheduling, DARS review, General Education and major advisement, information and assistance on financial aid resources, employment opportunities, research internships and fellowships, faculty mentoring, graduate and professional school programs, tutoring and other campus resources. For more information on the programs and services offered through SMAC/EOP, call (818) 677-4558 or visit SC 2126.

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES
SH 208
Phone: (818) 677-2658

THE STUDENT SERVICES CENTER (EOP) in the College of Social and Behavioral Sciences has been established to assist the University in its efforts to retain, graduate, and promote the advancement of traditionally underrepresented students. The Center provides academic advisement, peer and faculty mentoring, career exploration and preparation, and individual and small group tutorials. The EEC’s Student Council offers opportunities for students to become familiar with and actively involved in the College’s student support groups and student organizations residing in the various major departments. For information call (818) 677-2658, or visit Sierra Hall 208.

INFORMATION TECHNOLOGY RESOURCES (ITR)

COMPUTING SERVICES
Admin. Park 704A&B
Phone: (818) 677-2787
Computing Services provides access to centralized computing resources for students, faculty, and staff; maintains the major administrative systems on an IBM Mainframe; and provides Internet services such as email, newsgroups, and the World Wide Web. On the Hewlett Packard equipment, students and faculty are able to learn and use the UNIX operating system and various language compilers including C, Pascal, and Fortran. Statistical packages such as SPSS and SAS and the relational database product called “Oracle” are also available.

Computing Services consists of the following units:

APPLICATION DEVELOPMENT. Application Development analysts/programmers are responsible for the design, implementation, and installation of campus-wide computer applications such as SIMS (Student Information Management System); FRS (Financial Records System); SOC (Schedule of Classes); FAM (Financial Aid Management); and the University’s homepage on the World Wide Web.

SYSTEMS. This unit maintains the operating systems on the campus’s central computing equipment. This includes the OS390 operating system on the IBM mainframe, HP-UX (Unix) on the Hewlett Packard K220 midrange processors aka CSUN1 and CSUN2, and AIX (Unix) on the IBM J40 RISC 6000 midrange processor aka Looking Glass. This unit is also responsible for Novell servers that are used for centralized computing services. Some customized applications such as The Student Photo ID system and College Source are also supported by this unit.

COMPUTER OPERATIONS: This area monitors the central computing equipment 24 hours a day seven days a week (excluding holidays). Some of the services provided are installation of campus-wide computer applications such as data network accounts; mainframe computer accounts; special printer and plotter services; computer printouts/reports; and offsite data storage.

OFFICE OF ACADEMIC TECHNOLOGY (OAT)
Oviatt Library 18
Phone: (818) 677-2204
Located on the lower level of the Oviatt, OAT provides a wide range of technology services to facilitate instruction and assist faculty in the development and use of such technology.

INTERACTIVE LEARNING/VIDEO CONFERENCING. (818) 677-2211. Rooms are available for importing and exporting courses to the Ventura Campus, intrasystem course exchange, conferences, and administrative meetings. Utilizing compressed video technology, two or more sites can engage in two-way full motion audio and video communication.

CENTER FOR LEARNING TECHNOLOGY. (818) 677-5733.
Provides consultation and assistance for faculty in initiating technology projects that could be utilized effectively in the classroom and in research activities. In addition, consultation regarding design and equipment installation associated with new facilities and building renovation on campus is provided.

MEDIA LIBRARY AND EQUIPMENT DISTRIBUTION.
(818) 677-2211. Provides media research and acquisitions; supplies films, videotapes, video discs, and a wide range of

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(818) 677-2211. Provides media research and acquisitions; supplies films, videotapes, video discs, and a wide range of
media equipment for classroom use. Electronic delivery of film and videos is also provided to a number of classrooms. Additional titles are available from the CSU Film Library, Intercampus Consortium and outside rentals. Computerized media searches and consultation and support for the online media catalog are also provided. Viewing rooms are available for faculty and students.

**CREATIVE MEDIA SERVICES.** (818) 677-2204. The three sections of Creative Media Services are: Graphic Arts, Photography, and Audio/Video Production. They provide a variety of creative media services including location photography, photographic copy work. Overhead transparencies, graphic design, classroom video services, full video production capabilities and interactive media.

**COMPUTER LABORATORIES.** (818) 677-2204. Computer labs are located throughout the campus and are available to all students.

**TECHNOLOGY SUPPORT GROUP**
Admin. Park 704A
Phone: (818) 677-3966 (unless otherwise noted below)

Comprised of Consulting Services, Technology Equipment Services, Network Communications, and the Service Coordination Center, the Technology Support Group is responsible for providing the campus community with a single point of contact for all desktop and network technology-related installation, repair and training needs.

**CONSULTING SERVICES.** Consulting Services is the University’s primary source for information and training related to desktop computer hardware and software. Staff are available to answer questions concerning Macintosh, IBM, and IBM-compatible hardware, and MacOS, DOS, and Windows operating systems. They are also well-versed in the use of the application software packages most commonly used on campus, including but not limited to word processing packages such as WordPerfect and Microsoft Word, spreadsheets such as Microsoft Excel, electronic mail packages such as Netscape Mail and Pine Mail, and World-Wide-Web browsers such as Netscape.

The Consulting Services group also provides user support related to on-campus voice services. Specifically, the group offers training on the proper use of telephone equipment, coordinates campus voice-mail service, and advises on the purchase of telephone equipment.

The Consulting Services group is located in the University Technology Center (Admin. Park 704A) and is available by appointment, at ext. 3966, at Mail Code 8280, or via email at helpline.csun.edu.

**TECHNOLOGY EQUIPMENT SERVICES.** Located in the Music Lawn trailers (ML200), Technology Equipment Services provides on-site telephone, desktop computer service, and support including hardware and software maintenance, repair and installations, as well as hardware security and telephone system design. To request service, please contact the Service Coordination Center at ext. 1400 or submit a Technology Service Requisition to the Center at mail drop 8223.

**MEDIA EQUIPMENT SERVICES.** Located in the basement of the Oviatt Library (OL 16) and available by phone at ext. 3062 or Mail Code 8323, the Media Equipment Services staff is responsible for providing installation, maintenance, and repair support for campus users of audio and video equipment. This unit also provides in-class response to media equipment-related emergencies as early as 8:00 AM Monday through Friday and as late as 8:00 PM Monday through Thursday.

**THE SERVICE COORDINATION CENTER.** The Service Coordination Center is responsible for coordinating the response of ITR staff who are providing installation, maintenance, and repair services related to telephone and video equipment and computer hardware and software. The staff of this unit are responsible for receiving and tracking video, telephone, computer-related service, and installation requests. The SCC staff also operates the central campus telephone switchboard and are available as well to provide information related to TSG service billing, and the Microsoft Select purchasing program.

Located in the Computer Court trailers (CC 1602), the Service Coordination Center is open Monday through Friday, from 8:00 AM to 5:00 PM, and can be reached at ext. 1400 or at Mail Code 8223.

**NETWORK COMMUNICATIONS.** Located in Admin. Park 700, Network Communications is responsible for providing voice, data, and video network services. Specifically, this unit designs, installs, manages, maintains, and repairs network cabling and equipment such as modems, hubs, routers, and switches. Services include local and remote access to the campus data network and the Internet, as well as consulting on, and design of data networks, and video networks. Video and data network trouble calls can be directed to the Service Coordination Center at ext. 1400.

For more information on ITR, see the University Library section of the catalog.

**LEARNING RESOURCE CENTER:**

**TUTORS AND LABS**
Student Services Building 408
Phone: (818) 677-2033

The Learning Resource Center serves students needing assistance in courses or improvement of skills such as reading, writing, note taking, test taking and study management—skills necessary for effective university-level learning. The Center also provides services that support, supplement, and enrich the University’s regular academic curriculum.

**MATH BASIC SKILLS LAB**
Assistance is available to students enrolled in Math 094 and 095 as well as to those students reviewing basic mathematics. No appointment necessary. Hours: Monday through Friday, 9-4.

**MATH LAB**
Assistance is available to students enrolled in mathematics classes (except Math 094, 094A, Math 095, 095B, Math 140, Math 210 and Math 310, which have their own lab sessions). No appointment necessary. Hours: Monday - Friday 9-4.

**MATH MEDIA LAB**
Video cassettes and computer programs are available on a variety of topics. Designed to prepare students for the Math Placement Exam and ELM. Mathematics—Special audio-cassette self-instructional program of basic mathematics review. Contact x2231 for hours.

**STATISTICS LAB**
Assistance is available to students enrolled in statistics classes. No appointment necessary. Varied hours Monday through Friday. Contact (818) 677-2231 for hours.
SCIENCE/MATH SUPPLEMENTAL INSTRUCTION PROGRAM
Contact x2033 for information on courses which are supported by this program.

WRITING CENTER
The Writing Center provides individual and small group tutorials for students at all levels (except freshman writing programs’ students) and from all majors at CSUN. Areas of study range from grammar and mechanics through sentence and paragraph structure to techniques for organizing essays, hour exams, and research papers. The Center operates Monday through Friday on an appointment basis.

COMPUTER WRITING LAB
Peer tutors assist freshman writing programs’ students enrolled in AAS, CHS, English, and PAS writing classes with composition and computer technology. The Lab operates on a walk in basis, Monday through Friday.

SELF-INSTRUCTIONAL MATERIALS IN BASIC SKILLS
Writing: Audio/Video—cassette, programs of independent study and review of English grammar, expository writing, and research paper writing. A wide variety of self-instructional materials also available for the sciences.

LIBRARIES

UNIVERSITY LIBRARY
PLEASE NOTE: The Library is currently undergoing restoration of both east and west wings. Until this project is completed, services are located in the areas listed below. Upon completion of restoration, in the year 2000, all services will move back into the Oviatt Library.

The University Library, housing approximately 1.2 million volumes, is located in the Delmar T. Oviatt Library, and two annex buildings, Lindley Avenue Library Annex, and the Prairie Street trailers. Reading and study areas are located throughout the main open stack collection of about seven hundred thousand volumes. A half million less frequently used volumes are stored in the Library’s automated book storage and retrieval system (ASRS). Stored books can be requested at any online catalog terminal and obtained at the circulation desk. Additionally, the Library has areas for housing and using materials other than books. University Library hours vary by time of year and are available at the Information Desk, as well as being posted at the entrance and on the Library’s web site: http://library.csun.edu

CIRCULATION DESK
The Circulation Desk in the main lobby checks out, renews, checks in, and places holds on books. Books ordered from automated storage are picked up here as well. Fines payments and ID card replacement are also handled at Circulation.

COMPUTER WORKSTATIONS
The Library provides computer workstations for students who wish to access and search a wide variety of electronic resources.

COPY SERVICES
Self-service copy machines are located on each floor of the Library as well as the Lindley Avenue Library Annex. The copy service is run from Oviatt 111D where special services, including color copying, computer printing, and faxing and assistance for refunds is available.

DISABLED PATRONS, SERVICES FOR
Specially-equipped study rooms for the deaf and visually impaired are available. Upon request, assistance such as photocopying and book retrieval for disabled individuals is available at the circulation desk.

FINE ARTS SERVICE DESK
Located in the Lindley Avenue Library Annex, contains compact discs, phonorecords, audio and videocassettes, slides, art prints, and music scores. Most audiovisual materials must be used in the Library. Listening and viewing equipment is available in this area.

INSTRUCTIONAL MATERIALS LABORATORY
Located in the Lindley Avenue Library Annex, the IML contains K-12 textbooks, curriculum guides, and audiovisual materials. Facilities are provided for teachers/trainees to preview and prepare lesson materials.

INTERLIBRARY LOAN
Located on the main floor, southwest of the Reference Room. This service permits faculty and students to borrow materials from other libraries throughout the United States. There are some restrictions. Receipt of loan materials usually takes from 7-14 days.

MEDIA LIBRARY
Housing over 5,000 titles, this area supplies films, videotapes and video discs for classroom use. Electronic delivery of films and videos is provided to numerous classrooms. An additional 20,000 titles are available from the CSU Film Library Intercampus Consortium (FLIC), through an online media catalog. Viewing rooms area available for faculty and students. Room 30, Oviatt Library Garden Level.

MICROFORM READING ROOM
Located in the Lindley Avenue Library Annex and contains extensive microform collections including research materials for history, business, education and other disciplines; government documents; and back runs of newspapers and periodicals. Microform readers and printers are available.

ONLINE CATALOG
The Library has an online computer catalog of its main collection and some of its supplementary materials. Advance is available at over 40 public terminals in Oviatt, as well as through the campus network or dial-in access. Consult with Reference for information on the use of the catalog. Go to http://library.csun.edu, then click on Library Catalog.

PERIODICALS AND MAGAZINES
The Library has about 2,700 current periodicals subscriptions. Current issues are shelved in the area just West of the escalator on the second floor. Bound periodicals back to 1990 are kept in the main stacks by call number. For all but 150 heavily-used titles, bound periodicals published before 1990 are stored in automated storage, and some back files are on microfilm. Both current newspapers and newspapers on microfilm are shelved in the Lindley Avenue Library Annex.

REFERENCE ROOM
The Reference Room on the main floor of Oviatt has an extensive collection of reference books, including a large collection of indexes and abstracts for bibliographical research in all subject fields. Computer based online bibliographical databases are also available covering most major subject fields. The Reference Room has Librarians on duty to answer reference questions during full service library hours.

RESERVE BOOK ROOM
is located on the lower level of Oviatt and contains course-related materials requested by professors, as well as a permanent reserve collection. Most materials are available on a limited loan basis.
SPECIAL COLLECTIONS
is located on the lower level of Oviatt in Room 4. It contains unusual and bibliographically valuable works as well as specialized sets of works that are particularly useful for research and graduate theses.

TECHNICAL SERVICES DEPARTMENT
is located in the Prairie Street trailers and is responsible for selecting, acquiring, cataloging, and processing new materials for the Library.

UNIVERSITY ARCHIVES
is located on the lower level of Oviatt with Special Collections. It documents the history of CSU Northridge by collecting materials from and about CSU Northridge. It also has archival copies of CSU Northridge theses.

URBAN ARCHIVES CENTER
is located in Oviatt Room 4 on the Lower Level and collects the historical records of voluntary associations, labor unions, education, women, and minority political and community groups in the Valley and Los Angeles areas. Photographs, organizational records, correspondence, leaflets, oral histories, newsletters, personal papers, and related materials are available for research projects, masters theses, and term papers.

MAP LIBRARY
Located in Sierra Hall, Room 135, the Map Library is administered by the Geography Department. It houses one of the largest map collections in the Western United States, functions as an official depository library for the United States Geological Survey, and includes one of the nation’s largest collections of historically significant, large-scale Sanborn fire insurance atlases for the cities of California and the West.

THE NATIONAL CENTER ON DEAFNESS RESOURCE CENTER
Located on the second floor of Jeanne M. Chisholm Hall, the library contains materials on the history, education, and rehabilitation of the deaf. The collection of books, reports, periodicals, pamphlets, and signed or captioned media serves educators, interpreters, deaf students, the community at large, and students from many departments who use the materials for papers and projects relating to deafness. The collection is cataloged and accessible through the University Library’s online catalog.

OFFICE OF UNDERGRADUATE STUDIES
Admin. Park 706
Phone: (818) 677-2969
This Office is responsible for the undergraduate offerings at CSUN. The Associate Vice President for Undergraduate Studies oversees the activities of Admissions and Records, the Advising Resource Center/EOP, Academic Advisement, the Honors Program in GE, the Learning Resource Center, and the publication of the University catalog.

BACHELOR’S DEGREES
BACHELOR’S DEGREE REQUIREMENTS AFTER MATRICULATION:
1. Completion of the applicable General Education program.
2. Completion of the requirements for a major.
3. Title 5 Requirements in American History, Ideals; the Constitution of the U.S.; and State and Local Government.
4. Writing Skills Requirements.
5. Grade point average of 2.0 in all areas: CSU Northridge, overall, upper division in the major and minor.
6. Completion of 30 units in residence at CSU Northridge; 24 of the 30 units must be completed in upper division.

BACHELOR’S DEGREE REQUIREMENTS 2000-2002
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Twelve of the units must be in the major, and 9 of the units must be in General Education.


8. Formal approval by the faculty of the University. These requirements and related subjects are described in detail below:

GENERAL EDUCATION
The University believes that a liberal education must explore our cultural heritage through basic studies in the arts and sciences, and at the same time prepare students for success in a chosen occupation or profession.

Therefore, the objective of the required general education program is to develop in each student:
1. An effective understanding and use of the written and spoken forms of communication.
2. An understanding of the wide range of human endeavor and accomplishment in the liberal arts and sciences, their interrelationships, and the various choices and values they represent.
3. An understanding of information and principles in some areas of the liberal arts and sciences in sufficient depth to encourage critical and creative thought and expression.
4. A spirit of inquiry into the past and into the future, in order to cope with conditions in the continually changing world.
5. An understanding of the responsibilities and rights of citizenship in the community, nation, and world, as preparation for effective participation in today’s and tomorrow’s society.
6. Knowledge of the variety of cultural heritages represented in the United States; appreciation for the experience of diverse groups in the United States; and awareness, respect, and understanding of the cultures of other nations.

You can meet these objectives by completing a General Education certification plan at a California community college, and nine units of upper division residence GE coursework at CSU Northridge after transfer, or by completing the General Education program at CSU Northridge, which includes the following six areas of study: Basic Subjects, Natural Sciences, Humanities, Social Sciences, Applied Arts and Sciences, and Comparative Cultural Studies.

BASIC SUBJECTS (SECTION A) provide you with the knowledge and abilities you will find useful in other GE courses, in major and elective courses, and in your pursuits after you graduate. These fundamental courses will teach you how to use the principles of expository writing, how to make public presentations of your own thoughts, how to distinguish correct from faulty reasoning, and how to study and appreciate mathematical ideas and quantitative reasoning.

The NATURAL SCIENCES (SECTION B) coursework provides introductions to the biological and physical sciences, on the one hand, and the earth sciences, on the other. You will conduct immediate scientific inquiry in association with a lecture course in science. There is no better way to appreciate the scientific method than to engage in it.

In the HUMANITIES (SECTION C), a literature course can show you the world through the reflective lenses of language. A
course in the fine arts will allow you to either perform or produce fine art and appreciate it more fully, or to study the basic concepts, forms, and history of art. In the philosophy/religious studies category, you assess alternative views of the world as they deal with the structure and meaning of existence.

In the SOCIAL SCIENCES (SECTION D), you study the behavior of humans as we relate to each other, to ourselves, and to our environments as we create the structures and values that govern our lives in the present and through time.

The APPLIED ARTS AND SCIENCES (SECTION E) encourage you to develop an appreciation for lifelong learning, providing you an opportunity to integrate personal, professional, and social aspects of your life.

COMPARATIVE CULTURAL STUDIES (SECTION F) acquaint you with the roots of European (Western) civilization, as well as with the cultures of other nations in the subsection devoted to international cross-cultural studies. The subsection on intra-national cross-cultural studies helps you to focus on the contributions and perspectives of minority cultures and/or women in American society. The overall design of this section helps you to develop an appreciation for cultures other than your own.

REQUIRED PATTERN OF COURSES
The required pattern of General Education consists of 52 units distributed among six areas, A, B, C, D, E, F:

- Section A: Basic Subjects ........................................... 12 units
- Section B: Natural Sciences .................................... 9 units
- Section C: Humanities ........................................... 9 units
- Section D: Social Sciences ...................................... 9 units
- Section E: Applied Arts and Sciences ....................... 4 units
- Section F: Comparative Cultural Studies ................ 9 units

Courses acceptable for the various sections in General Education follow. There are certain restrictions governing the applicability of listed courses dependent upon particular students’ majors. Except in Section A, listed courses with the same departmental prefix as the student’s major, (example: “art,” “chemistry,” “history,” etc.) will not apply to General Education requirements. Thus, an Economics major may not apply Economics 310 in Section D even though that course is listed in that section. On the other hand, a course required in the student’s major may apply against General Education as long as it is not in the same department as the major. Thus, Economics 310 may apply in Section D if the student is pursuing an option within Business Administration, even though Economics 310 is a requirement in the Business Administration major.

In Section A, listed courses may apply regardless of the student’s major. Thus, a Mathematics major may apply Mathematics 150A in both General Education Subsection A.3 and the major.

There are modifications to the pattern and the above-stated regulations for the following majors:

- **BIOLOGY MAJORS**: The entire GE Section B, Natural Sciences will be met by the completion of the required courses in the Biology major.

- **BUSINESS ADMINISTRATION MAJORS**: Courses with a departmental prefix of Business Law, Finance, and/or Marketing may not apply to General Education if the student is a Business Administration major. Business Administration majors may apply ECON 310 and/or 311 to upper division General Education in Section D.

- **BLAW 280** may be used by Business Administration, Accountancy and Business Education majors to meet 3.0 units in GE Section E, Applied Arts and Sciences.

- **CHEMISTRY (ENVIRONMENTAL CHEMISTRY OPTION) MAJORS**: HSCI 454, 456 or 459 may satisfy 3.0 units of the Section E, Applied Arts and Sciences GE requirement. However, none of these Health Sciences courses meets the Upper Division General Education requirement.

- **CHICANO STUDIES MAJORS**: Students with this major may apply listed Chicano Studies courses in General Education.

- **COMPUTER SCIENCE MAJORS**: Subsection A.2, subsection A.3, Section B, and Section E are considered satisfied by courses in this major.

- **EARTH SCIENCE MAJORS**: The Natural Sciences Section and Section E are met by required courses in the major.

- **ALL ENGINEERING MAJORS**: The following requirements of General Education will be considered met by required courses in this major: subsection A.2, subsection A.3, the entire Natural Sciences Section, and Section E. MSE 304, the senior capstone design course will meet 3.0 units of the 9.0 unit Section D, Social Sciences requirement. However, MSE 304 will not meet an Upper Division General Education requirement.

- **ENGLISH MAJORS**: ENGL 258, 259, or 275 will meet the General Education Sub-section C.1, Literature requirement.

- **FAMILY AND CONSUMER SCIENCES MAJORS (NUTRITION, DIETETICS AND FOOD SCIENCES OPTION)**: The entire GE Section B, Natural Sciences will be met by completion of a course in this major: subsection A.2, subsection A.3, the entire Natural Sciences Section, and Section E. The following requirements and the above-stated regulations for the following majors:

- **Majors**: Psychology 310 will apply listed Chicano Studies courses in General Education.

- **POCKET SCIENCE MAJORS**: Subsection E are met by required courses in the major.

- **HUMANITIES MAJORS**: HUMN 101, 105 and 106 may meet 3.0 units in any of the three subsections in Section C, Humanities.

- **JOURNALISM MAJORS**: JOUR 100 may meet 3.0 units of General Education Section E, Applied Arts and Sciences requirement.

- **KINESIOLOGY MAJORS**: KIN 306 may meet 3.0 units of the Section D, Social Sciences requirement. However, KIN 306 will not meet an upper-division General Education requirement.

- **KINESIOLOGY B.S., (EXERCISE SCIENCE AND ATHLETIC TRAINING OPTIONS)**: Majors: Psychology 310 will fulfill 3 units of GE Section E, Social Sciences.

- **LIBERAL STUDIES MAJORS**: All Liberal Studies majors who complete the credential option or the non-credential option of Plan E (as described in this catalog) will be considered to have satisfied all General Education/Title 5 requirements.
MATHMATICS: Either COMP 106/L or COMP 110/L will fulfill 3 units of GE Section E, Applied Arts and Sciences.

MUSIC MAJORS: MUS 307 will meet subsection F.2, International Cross-Cultural Studies for Music majors (All options). However, MUS 307 will not meet an Upper Division General Education requirement. MUS 191/L will fulfill 3 units of GE in Section E for Music Education and Music Therapy options and all B.M. majors. MUS 202 will fulfill 3 units of GE in Section C.2 for Music Industry, Music Education, and Music Therapy options and all B.M. majors. Additional Music Therapy option GE allowances: Section B.1, Biology 101 and 211; Section D, Psychology 310; Section E, Special Ed. 400.

MUSIC B.A. (VOCAL/INSTRUMENTAL OPTION B) MAJORS: MUS 191/L will fulfill 3 units of GE Section E, Applied Arts and Sciences, and MUS 202 will fulfill 3 units of General Education subsection C.2. Humanities/Fine Arts.

PAN-AFRICAN STUDIES MAJORS: Students may apply listed Pan-African Studies Department courses in General Education.

PHYSICS MAJORS: Section E is met by required courses in the major.

RECREATION MAJORS, (THERAPEUTIC RECREATION OPTION): BIOL 211/212 will double count for 3.0 units in General Education Subsection B.1 and PSY 310 will double count for 3.0 Upper Division General Education units in Section D, Social Sciences.

RELIGIOUS STUDIES MAJORS: General Education subsection C.3, Philosophy and Religion will be met by completion of the required courses in the Religious Studies major.

SPANISH MAJORS (LANGUAGE AND CULTURE OPTION): subsection C.1, Literature will be met by completion of the required courses on the Spanish (Language and Culture option) major.

UPPER DIVISION GE REQUIREMENT In planning General Education coursework, students should defer taking at least 9 units (from at least two sections without restriction of subsections) until junior standing is being achieved, or later. Within the pattern described below the 9 units selected from at least two different sections (A through E) without restriction of subsections must be in upper division level courses (300 and above) TAKEN NO SOONER THAN THE SEMESTER IN WHICH JUNIOR STANDING (60 UNITS) IS BEING ACHIEVED. Note that completion of the lower division writing requirement is a prerequisite for enrollment in upper division General Education courses.

GE WRITING POLICY All upper-division required GE courses shall be designated writing-intensive. In each such course, students will be required to complete writing assignments totaling a minimum of 2,500 words.

RESIDENCE GE REQUIREMENT Students must complete a minimum of 9 units of General Education in residence at CSUN at either the lower or upper division level. If completed at the upper division level, the units may apply to the nine-unit upper division General Education requirement described above.

GENERAL EDUCATION/TITLE 5 REQUIREMENTS Courses taken to meet the State Requirement in American History and Institutions and U.S. Constitution and State and Local Government will not be considered as meeting requirements in General Education.

GRADING METHOD REQUIREMENT Students under the 1986-87 and subsequent catalogs may NOT take courses on a Credit/No Credit basis to fulfill General Education or Title 5 requirements. Refer to the Policies and Regulations section on Credit/No Credit for ALL restrictions on this basis of grading.

SYLLABUS: To better inform students about the requirements, content and methodology of GE, faculty distribute a written syllabus to each student enrolled in a General Education course.

SECTION A: BASIC SUBJECTS (12 UNITS) All Basic Subjects courses will be completed by students within their first 60 units. All first-time freshmen will have mandatory advisement starting with their initial enrollment at the university and continuing each semester until the completion of Basic Subjects. To implement this policy and ensure that students maintain continuous enrollment in Basic Subjects, they shall be placed on TTR hold until they have completed all Basic Subjects courses. All students will enroll in the appropriate writing and mathematics courses as advised until they complete GE writing or math within the first four semesters or 60 units, whichever comes first.

Students will enroll either simultaneously or within two consecutive semesters in GE oral communication and GE writing.

Students will enroll in GE critical reasoning after completing GE math (within their first 60 units). Select 12 units with a minimum of 3 units from each of the following subsections:

A.1: WRITTEN COMPOSITION

GOALS: Students should develop competence in writing for personal and interpersonal communication as well as artistic expression. Through the practice of writing, students should develop the ability to

- reason critically;
- assimilate knowledge; and
- articulate what they have learned

CHS 155 Freshman Composition.........................3
ENGL 155 Freshman Composition.........................3
PAS 155 Freshman Composition.........................3

A.2: CRITICAL REASONING

GOALS: Students should learn the criteria and methods used for distinguishing good reasoning from bad. In addition, students should develop basic reasoning skills that they can apply both within a broad range of academic disciplines and outside the academic environment. Students should also develop

- skills in recognizing the logical structure of statements and arguments;
- the ability to distinguish rational from non-rational means of persuasion;
- skills in applying the principles of sound reasoning in the construction and evaluation of arguments; and
- an appreciation of the value of critical reasoning skills in the pursuit of knowledge.

AAS 201 Race, Racism and Critical Thinking.........3
CHS 202 Race, Racism and Critical Thinking ........3
PAS 204 Race and Critical Thinking.................3

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2 See Writing Skills Requirements.
PHIL 100 General Logic................................................. 4
PHIL 200 Critical Reasoning........................................... 3
PHIL 210 Reasoning in the Sciences................................. 3
PHIL 230 Symbolic Logic I.............................................. 4
PHIL 331 Symbolic Logic II............................................ 3

A.3: MATHEMATICS
GOALS: Students should develop the competence in mathematical reasoning (deterministic and/or statistical) needed for
• college level courses;
• professional judgments; and
• personal decisions
MATH 103 Calculus for Business Applications I............... 3
MATH 105 Pre-Calculus................................................... 3
MATH 106 Principles of Mathematics............................... 5
MATH 131 Mathematical Ideas......................................... 3
MATH 140 Introductory Statistics..................................... 4
MATH 150A Mathematical Analysis I............................... 3
MATH 255A Calculus I.................................................... 3
MATH 331 Mathematical Explorations............................. 3

A.4: ORAL COMMUNICATION
GOALS: Students should acquire a clear understanding of the basic concepts and practices associated with public speaking and should appreciate the role of public speaking in a democratic society. Students should be able to deliver speeches in accordance with the principles of effective oral presentation.
CHS 151 Freshman Speech Communication....................... 3
COMS 151 Fundamentals of Public Speaking......................... 3
COMS 225 Strategies of Argumentation............................. 3
COMS 309 Advanced Public Speaking................................ 3
PAS 151 Freshman Speech Communication........................ 3

SECTION B: NATURAL SCIENCES (9 UNITS)
GOALS: Students should gain basic knowledge and learn key principles in the biological and physical sciences. In addition, students should recognize the unique role experiments play in adding to scientific knowledge, and should understand modern methods and tools used in scientific inquiry.
Requirements:
(1) One lecture course selected from each of category B.1 and B.2, listed below:
(2) A laboratory or field studies course associated with one of the lecture courses selected;
(3) Additional courses as necessary, from either category, to total 9 units.

Note: Laboratory or field studies courses which may be used to satisfy requirement (2) are listed in parentheses immediately after the associated lecture course. Check catalog course descriptions to determine whether the laboratory or field studies course is optional or must be taken concurrently with the associated lecture course.

B.1: BIOLOGICAL AND PHYSICAL SCIENCES
Biol 100 (100L) Introductory Biology and Lab................. 3+1
Biol 220 Human Ecology: Our Place in Nature................. 2+1
Biol 241 (241L) Human Pregnancy and Embryology and Lab.............................................. 3+1
Biol 285 Biology of Cancer......................................... 2
Biol 300 Issues in Biology.......................................... 3
Biol 323 (323E) Plants and Animals of Southern California, and Field Studies........................ 2+1
Biol 325 (325L) Life in the Sea and Lab.......................... 3+1
Chem 101 (101L) General Chemistry I and Lab.............. 4+1
Chem 102 (102L) General Chemistry II and Lab.............. 4+1
Chem 103 (103L) Introductory Chemistry I and Lab......... 4
Chem 104 (104L) Introductory Chemistry II and Lab........ 4
Chem 105 (110L) Principles of Chemistry & Lab.............. 3+1
Chem 110 (110L) Chemistry, Technology and Modern Society and Lab.......................... 3+1
PhSc 150 (150L) Principles of Physical Science & Lab........ 3+1
Phys 100A/100AL General Physics I and Lab.................... 3+1
Phys 100B General Physics II....................................... 3
Phys 160 The Physics of Experience............................... 3
Phys 220A/220AL Mechanics and Lab............................ 3+1
Phys 220B Electricity and Magnetism............................. 3
Phys 305 Physics of Music............................................ 3

B.2: EARTH SCIENCES AND ASTRONOMY
ASTR 152 (154L) Elem. Astronomy & Lab....................... 3+1
ASTR 252 The Solar System.......................................... 3
ASTR 301 The Dynamical Universe................................ 3
ASTR 312 Solar System Astrophysics............................. 3
ASTR 352 Current Developments in Astronomy................. 3
Geog 101 (102) The Physical Environment & Lab.............. 3+1
Geog 103 (105) Weather and Lab..................................... 3+1
Geog 104 (105) California's Weather and Lab.................. 2+1
Geog 311 Atmosphere................................................. 3
Geog 365 (365L) Geomorphology and Lab......................... 2+1
Geog 366 Geography of Environmental Hazards................ 3
Geol 100 (102) Introduction to Geology and Lab.............. 2+1
Geol 101 (102) Geology of Planet Earth and Lab............. 3+1
Geol 110 (112) Earth History and Lab............................. 3+1
Geol 122 (123) The World Ocean and Lab....................... 3+1
Geol 130 Geologic Hazards......................................... 3
Geol 300 (301) Environmental Geology and Lab.............. 3+1

SECTION C: HUMANITIES (9 UNITS)
GOALS: Students should gain a basic appreciation of the nature and methods of the Humanities. By studying works in literature, fine arts, philosophy, and religion, students should gain a critical understanding of the meaning of humanistic study in one or more cultures and eras. Students should also acquire an understanding of interdisciplinary methodologies in the Humanities.
Select a minimum of 3 units from each of the following subsections:
C: May be applied to any of the three subsections listed below:

HUM 101 Forms and Ideas in Humanities.......................... 3
HUM 105 Cultural Eras I............................................... 3
HUM 106 Cultural Eras II............................................. 3
Lar 200 Ideas and Issues in the Humanities..................... 9
JS 300 Humanities in Jewish Society: Ancient and Medieval................................. 3
HUM 390LON British Life and Culture............................ 3

(May be applied to either subsection C.1 or C.2.)

C.1: LITERATURE
GOALS: Students should learn the theories, methods, and techniques of literary analysis. Students should become familiar with and develop an appreciation of literature through the study of one or more of the following:
(1) literary genre, (2) literature of cultural diversity, (3) traditional "major authors" or "major works," and (4) oral tradition.
Aas 220 Survey of Asian American Literature.................. 3
Aas 321 Asian American Fiction.................................... 3
Anth 326 Principles of Folklore...................................... 3
Cas 201 Survey of Central American Art & Literature......... 3
Chs 201 Survey of Mexican Literature in Translation........ 3
Chs 380 Chicano Literature........................................... 3
Chs 391 Contemporary Chicana Literature...................... 3
Clas 315 Greek and Roman Mythology............................ 3
Enl 255 Introduction to Literature................................ 3
Enl 258 Major English Writers I.................................. 3
Enl 259 Major English Writers II................................ 3
Enl 275 Major American Writers.................................. 3
Enl 30 Contemporary Literature.................................... 3
Enl 316 Shakespeare.................................................. 3
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<thead>
<tr>
<th>Course</th>
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<tr>
<td>ENGL 364</td>
<td>The Short Story</td>
<td>3</td>
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<tr>
<td>MCLL 245</td>
<td>Introduction to German Literature</td>
<td>3</td>
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<tr>
<td>MCLL 295A</td>
<td>Masterpieces of European Literature I</td>
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<td>MCLL 295B</td>
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<td>3</td>
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<tr>
<td>MCLL 341</td>
<td>20th Century European Literature</td>
<td>3</td>
</tr>
<tr>
<td>PAS 245</td>
<td>African American Literature 1930 on</td>
<td>3</td>
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<tr>
<td>PAS 344</td>
<td>Literature of the Caribbean and African Experience</td>
<td>3</td>
</tr>
<tr>
<td>TH 315</td>
<td>World Drama</td>
<td>3</td>
</tr>
</tbody>
</table>

**C.2: FINE ARTS**

**GOALS:** Students should understand the basic concepts, forms, and history of the arts. Students should also understand at least one of the arts – including performance and practice – from the perspective of its humanistic content. The term “arts” includes creative writing, performing arts, and visual arts.

<table>
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<th>Course</th>
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<td>ART 100</td>
<td>Introduction to Art Processes</td>
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<td>ART 101</td>
<td>Introduction to Three-Dimensional Forms and Materials</td>
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<tr>
<td>ART 105</td>
<td>Understanding the Visual Arts</td>
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<tr>
<td>ART 110</td>
<td>History of Western Art Pre-History through the Middle Ages</td>
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<tr>
<td>ART 111</td>
<td>History of Western Art, Renaissance to the Present</td>
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<tr>
<td>ART 124A</td>
<td>Drawing I</td>
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<tr>
<td>ART 140</td>
<td>Beginning Two-Dimensional Design</td>
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<td>ART 141</td>
<td>Beginning Three-Dimensional Design</td>
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<td>ART 151</td>
<td>Photography as Art</td>
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<td>ART 205</td>
<td>Landmarks of Art</td>
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<td>ART 303</td>
<td>Multicultural 3D Art</td>
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<tr>
<td>ART 305</td>
<td>Art Today</td>
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<tr>
<td>ART 310</td>
<td>History of Western Architecture: Shelter and Community</td>
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<td>CH S 111</td>
<td>The Chicano and the Arts</td>
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<td>CH S 280</td>
<td>Workshop in Minority Creative Writing</td>
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<td>CH S 310</td>
<td>Regional Music of Mexico</td>
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<td>Creative Writing</td>
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<td>KIN 144A</td>
<td>Dance Modern I</td>
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<td>KIN 236</td>
<td>Introduction to Choreography &amp; Lab</td>
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<td>KIN 380</td>
<td>Perspectives of Dance</td>
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<tr>
<td>MUS 105</td>
<td>Understanding Music</td>
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<td>MUS 107</td>
<td>Music in Contemporary Society</td>
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<td>Introduction to Jazz</td>
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<td>PAS 246</td>
<td>Intro. to African-American Drama</td>
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<td>Workshop in Creative Writing for Minority Students</td>
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<td>Literature in Performance</td>
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<td>TH 110</td>
<td>Plays and Players</td>
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<td>TH 111</td>
<td>Actors and Acting</td>
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<td>TH 310</td>
<td>Theatre in Performance</td>
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**C.3: PHILOSOPHY AND RELIGION**

**GOALS:** Students should critically reflect on questions concerning the nature, meaning, and value of human existence, the world in which we live, and our relations with one another. Student should understand the sources and limits of knowledge. They should appreciate and assess different world views and moral teachings that have played central roles in human culture, which may include traditional forms of philosophical and religious thought and expression as well as mythology, folklore, and other forms of spirituality and cosmology.

<table>
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<td>CH S 350</td>
<td>Religion and Chicano Society</td>
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<td>CH S 351</td>
<td>Survey of Mexican Philosophical Thought</td>
<td>3</td>
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<tr>
<td>J S 200</td>
<td>Introduction to Judaism</td>
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**SECTION D: SOCIAL SCIENCES (9 UNITS)**

**GOALS:** Students should, through the study of social sciences, understand the complexities of social relations and human experiences. Students should also understand the nature, scope, and limits of social-scientific study. Select 9 units from at least two disciplines.

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<td>Human Origin and Culture</td>
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<td>ANTH</td>
<td>151</td>
<td>Physical Anthropology</td>
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<td>ANTH</td>
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<td>Culture and Human Behavior</td>
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<td>Anthropology and the Modern World</td>
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<td>Individual and Culture</td>
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<td>Prehistoric Archeology</td>
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<td>History of Central American Peoples</td>
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<td>Central American Revolutionary Movements</td>
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<td>History of Mexican Peoples</td>
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<td>346</td>
<td>History of the Chicana/Mexicana</td>
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<td>Urbanization and the Chicano</td>
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<td>Women in Latin America</td>
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<td>Principles of Economics</td>
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<td>Price Theory and Applications</td>
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<td>Money, Income &amp; International Economics</td>
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<td>Environmental Economics</td>
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<td>California</td>
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<td>Metropolitan Los Angeles</td>
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<td>Urban Geography</td>
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<td>U.S. Presidential Crises: From Washington to Watergate</td>
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<td>Cultural History of the United States</td>
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<td>Modern Europe Since 1815</td>
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<td>History of Women</td>
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<td>Los Angeles: Past, Present, Future</td>
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<td>201</td>
<td>Economics of the African-American Community</td>
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<td>Psychological Environment of the African-American</td>
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<td>Social Environment of the African-American</td>
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<tr>
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<td>222</td>
<td>Elements of the Human Geography of the African-American</td>
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<td>African-American Politics</td>
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<td>Contemporary Issues in Law &amp; Politics</td>
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<td>POLS</td>
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<td>European &amp; Comparative Government</td>
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<tr>
<td>POLS</td>
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<td>Elements of International Relations</td>
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3 Only 3.0 units of credit and one discipline may be earned in HIST 380, POLS 380 and URBS 380.
<table>
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<td>POLS 350</td>
<td>Great Questions in Polity</td>
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<td>POLS 380</td>
<td>Los Angeles: Past, Present, Future</td>
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<td>PSY 150</td>
<td>Principles of Human Behavior</td>
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<td>PSY 235</td>
<td>Psychology of Women and Men</td>
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<td>PSY 245</td>
<td>Psychology of Contemporary Social Issues</td>
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<td>PSY 312</td>
<td>Psychological Aspects of Parenthood</td>
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<td>PSY 352</td>
<td>Motivation</td>
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<td>PSY 365</td>
<td>Introduction to Gerontology</td>
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<td>SOCI 150</td>
<td>Introduction to Sociology</td>
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<td>SOCI 200</td>
<td>Social Crises of Today</td>
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<td>Contemporary Family in American Society</td>
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<td>SOCI 305</td>
<td>Culture and Personality</td>
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<td>SOCI 324</td>
<td>Sociology of Sex and Gender</td>
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<td>URBS 150</td>
<td>The Urban Scene</td>
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<td>Growth and Development of Cities</td>
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<tr>
<td>URBS 380</td>
<td>Los Angeles: Past, Present, Future</td>
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</table>

**SECTION E: APPLIED ARTS AND SCIENCES (4 UNITS)**

**GOALS:** Students should understand how human beings function in various physical, social, cultural, and technological environments. Through the study of applied arts and sciences, students should become more integrated and well rounded individuals.

Select 4 units from at least two of the following disciplines:

<table>
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<td>Asian Americans and the Media</td>
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<td>AAS 390</td>
<td>Asian American Communities</td>
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<tr>
<td>BLAW 108</td>
<td>The Citizen and Civil Law</td>
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<td>BLAW 280</td>
<td>Business Law</td>
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<td>BUS 480</td>
<td>The San Fernando Valley: Research on Local Issues</td>
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<td>CAS 270</td>
<td>Fieldwork in Central American Communities</td>
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<td>CHS 270</td>
<td>Field Work in the Barrio</td>
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<td>Political Organizations of the Barrio</td>
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<td>CHS 380</td>
<td>Alternative Chicano Press</td>
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<td>MSE 105</td>
<td>Introduction to Computer Graphics Tools</td>
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<td>CTE 208</td>
<td>Architecture and Structures</td>
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<td>CD 260</td>
<td>Voice and Diction Principles and Theory</td>
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<td>Language Development in Children</td>
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<td>COMP 100</td>
<td>Computers: Their Impact and Use</td>
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<td>COMP 160/L</td>
<td>Navigating the Internet/Lab</td>
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<td>Process of Communication</td>
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<td>Group Communication</td>
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<td>EDU 301</td>
<td>Schooling in the United States</td>
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<td>ENGL 313</td>
<td>Studies in Popular Culture</td>
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<tr>
<td>E EX 100</td>
<td>The Technological World</td>
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<td>Nutrition For Life</td>
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<td>Issues in Housing</td>
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<td>Consumer Issues and Problems</td>
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<td>Marriage and Family Relations</td>
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<td>FIN 302</td>
<td>Personal Finance</td>
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<td>Health and Society</td>
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<td>Emergency Health Procedures and Lab</td>
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<td>Health Aspects of Drug Use</td>
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<td>Nutrition and Health</td>
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<td>Field Work in the Jewish Community</td>
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<td>Basketball I</td>
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<td>Running Conditioning</td>
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<tr>
<td>M E 122</td>
<td>Energy and Society</td>
<td>2</td>
</tr>
<tr>
<td>M E 322</td>
<td>Technological Opportunities for a Sustainable Society</td>
<td>3</td>
</tr>
<tr>
<td>MSE 105</td>
<td>Introduction to Computer Graphics Tools</td>
<td>3</td>
</tr>
<tr>
<td>PAS 110</td>
<td>Fundamentals of Business</td>
<td>3</td>
</tr>
<tr>
<td>PAS 210</td>
<td>Consumer Behavior in the Afro-American Community</td>
<td>3</td>
</tr>
<tr>
<td>PAS 337</td>
<td>Black Images on the Silver Screen</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 165</td>
<td>Today’s Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 305</td>
<td>Business Ethics and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 100</td>
<td>Introduction to Mass Communication Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECTION F: COMPARATIVE CULTURAL STUDIES (9 UNITS)**

**GOALS:** Students should be educated citizens who appreciate the multiplicity of cultural forces that shape the world. Students should understand and respect the diversity of human cultures, as well as differences between and within cultures.

Select 3 units from each of the following subsections:

**F.1: HISTORY OF WESTERN CIVILIZATION**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 315</td>
<td>Perspectives in Art History</td>
<td>3</td>
</tr>
<tr>
<td>MCLL 150</td>
<td>Gateways to Western Civilization: Greece and Rome</td>
<td>3</td>
</tr>
<tr>
<td>MCLL 350</td>
<td>The Classical World &amp; Western Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 150</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 151</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 302</td>
<td>Western Cultural Heritage, Modern Age</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>Themes in Western Civilization Before 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>Themes in Western Civilization After 1500</td>
<td>3</td>
</tr>
<tr>
<td>RS 160</td>
<td>Religion in Western Civilization</td>
<td>3</td>
</tr>
</tbody>
</table>

**F.2 OR F.3: FOREIGN LANGUAGE**

Three units of one language from the following may be applied to either F.2 or F.3:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARMN 101</td>
<td>Elementary Armenian I</td>
<td>3</td>
</tr>
<tr>
<td>ARMN 102</td>
<td>Elementary Armenian II</td>
<td>3</td>
</tr>
<tr>
<td>ARMN 201</td>
<td>Intermediate Armenian I</td>
<td>3</td>
</tr>
<tr>
<td>ARMN 202</td>
<td>Intermediate Armenian II</td>
<td>3</td>
</tr>
<tr>
<td>CHS 101</td>
<td>Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>CHS 102</td>
<td>Spanish for Chicanos</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 101/101C</td>
<td>Elementary Mandarin Chinese I</td>
<td>4</td>
</tr>
<tr>
<td>CHIN 102/102C</td>
<td>Elementary Mandarin Chinese II</td>
<td>4</td>
</tr>
<tr>
<td>CHIN 103</td>
<td>Elementary Written Mandarin I</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 104</td>
<td>Elementary Written Mandarin II</td>
<td>3</td>
</tr>
</tbody>
</table>
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ANTH 107 Cultures of the Pacific.............................................. 3
ANTH 108 Latin American Cultures.............................................. 3
ANTH 308 Women, Sex Roles, and Culture................................ 3
ANTH 310 Language in Culture.................................................. 3
ANTH 315 Third World Cultures.................................................. 3
ANTH 339 Peoples of South Asia.................................................. 3
ARMN 310 Armenian Culture...................................................... 3
ART 112 Survey of Non-Western Arts......................................... 3
CAS 100 Introduction to Central American Studies...................... 3
CAS 102 The Salvadoran Experience............................................ 3
CAS 365 Changing Roles of Central American Women.................. 3

CAS 102G Elementary Greek II.................................................. 3
CAS 102H Elementary Greek III................................................ 3
CAS 200 Beginning French Conversation.................................... 3
CAS 204 Review of French Grammar........................................... 3
CAS 201 Intermediate French.................................................... 3
CAS 202 Intermediate French II..................................................3

CHS 364 World Migration and the Chicano.................................... 3
CHS 365 Third World Women and the Chicana............................... 3
MCLL 380 Cultural Development of Modern Russia and Eastern Europe 3

F.3: INTRA-NATIONAL CROSS-CULTURAL STUDIES

(Associates who have completed a CSU Northridge-sponsored study abroad program of at least one semester duration will be exempt from the F.2 requirement—International Cross-Cultural Studies of the General Education Program. No unit credit will be given. Students will need to complete the number of units required for the baccalaureate degree.)

AAS 360 Asian American Immigration World Perspective.................. 3
ANTH 107 Cultures of the Pacific.............................................. 3
ANTH 108 Latin American Cultures.............................................. 3
ANTH 308 Women, Sex Roles, and Culture................................ 3
ANTH 310 Language in Culture.................................................. 3
ANTH 315 Third World Cultures.................................................. 3
ANTH 339 Peoples of South Asia.................................................. 3
ARMN 310 Armenian Culture...................................................... 3
ART 112 Survey of Non-Western Arts......................................... 3
CAS 100 Introduction to Central American Studies...................... 3
CAS 102 The Salvadoran Experience............................................ 3
CAS 365 Changing Roles of Central American Women.................. 3

CHS 364 World Migration and the Chicano.................................... 3
CHS 365 Third World Women and the Chicana............................... 3
MCLL 380 Cultural Development of Modern Russia and Eastern Europe 3

F.2: INTERNATIONAL CROSS-CULTURAL STUDIES

(Students who have completed a CSU Northridge-sponsored study abroad program of at least one semester duration will be exempt from the F.2 requirement—International Cross-Cultural Studies of the General Education Program. No unit credit will be given. Students will need to complete the number of units required for the baccalaureate degree.)

AAS 360 Asian American Immigration World Perspective.................. 3
ANTH 107 Cultures of the Pacific.............................................. 3
ANTH 108 Latin American Cultures.............................................. 3
ANTH 308 Women, Sex Roles, and Culture................................ 3
ANTH 310 Language in Culture.................................................. 3
ANTH 315 Third World Cultures.................................................. 3
ANTH 339 Peoples of South Asia.................................................. 3
ARMN 310 Armenian Culture...................................................... 3
ART 112 Survey of Non-Western Arts......................................... 3
CAS 100 Introduction to Central American Studies...................... 3
CAS 102 The Salvadoran Experience............................................ 3
CAS 365 Changing Roles of Central American Women.................. 3

CHS 364 World Migration and the Chicano.................................... 3
CHS 365 Third World Women and the Chicana............................... 3
MCLL 380 Cultural Development of Modern Russia and Eastern Europe 3

GEOG 190 Asia................................................................. 3
GEOG 318 Europe....................................................................... 3
GEOG 322 Latin America......................................................... 3
GEOG 333 Canada...................................................................... 3
GEOG 324 China...................................................................... 3
GEOG 325 Southeast Asia......................................................... 3
GEOG 328 Mexico...................................................................... 3
GEOG 334 Southwest Pacific.................................................... 3
GEOG 335 Geography of the Soviet Union.................................. 3
HIST 161 Survey of the History of Latin America.......................... 3
HIST 185 Civilization of the Middle East................................. 3
HIST 192 History of Eastern Civilization II......................... 3
HIST 210 History of the Jewish People....................................... 3
HUM 321 African Humanities.................................................... 3
HUM 322 The Humanities of East Asia....................................... 3
HUM 323 The Humanities of India............................................ 3
JS 330 Studies in the Jewish Experience................................. 3
MUS 310 Understanding World Cultures Through Music.............. 3

PAS 165 Introduction to Pan-Africanism...................................... 3
PAS 226 Traditional African Cultures......................................... 3
PAS 366 Colonialism in Africa...................................................... 3
PHIL 341 Indian Philosophy......................................................... 3
PHIL 344 Chinese Philosophy....................................................... 3
POL S 152 Politics and Cultures of the Third World....................... 3
POL S 315 Comparative Communism........................................... 3
POL S 321 Comparative Socialism................................................ 3
POL S 332 Politics of Latin America............................................. 3
RS 130 World Religions............................................................... 3
RS 365 Islam....................................................................... 3
RS 380 Asian Religions: Communal Traditions and Transitions........ 3
RS 385 Hinduism....................................................................... 3
R S 390 Buddhism................................................................. 3
S O C 306 Jewish Community & Family Structure......................... 3
S O C 333 Chinese Society.......................................................... 3
URBS 350 Cities of the Third World........................................... 3
W S 310 Latin American Women Writers.................................... 3
W S 330 Women in the Jewish Experience................................... 3

ENGL 311 History of African-American Writing.......................... 3
ENGL 371 Issues in Jewish-American Writing............................... 3
HIST 349 Women in American History....................................... 3
HIST 369 History of American Indians......................................... 3
JOUR 371 Women and the Media.................................................. 3
JOUR 372 Diversity and the Media.............................................. 3
KIN 385 Women in Sport............................................................. 3
LSRC 330 Women, Leisure & Ethnicity in the U.S........................... 3
MCLL 380 Culture and Social Development................................. 3
MCLL 385 Intercultural Communication...................................... 3
ENGL 311 History of African-American Writing.......................... 3
ENGL 371 Issues in Jewish-American Writing............................... 3
HIST 349 Women in American History....................................... 3
HIST 369 History of American Indians......................................... 3
JOUR 371 Women and the Media.................................................. 3
JOUR 372 Diversity and the Media.............................................. 3
KIN 385 Women in Sport............................................................. 3
LSRC 330 Women, Leisure & Ethnicity in the U.S........................... 3
MCLL 380 Culture and Social Development................................. 3
MCLL 385 Intercultural Communication...................................... 3
**INFORMATION COMPETENCE SKILLS**  
*(APPLICABLE TO ALL GE SECTIONS)*

**GOALS:** Students should progressively acquire a basic understanding of information retrieval tools and practices and should improve their skills in evaluating and using information. These skills will be acquired through the General Education program.

**MAJOR REQUIREMENTS**
Completion of all requirements for a major as specified by departments is required. Refer to the individual departments or programs in the Courses of Study section.

**TITLE 5 REQUIREMENTS IN AMERICAN HISTORY AND GOVERNMENT**
California law prescribes as requirements for graduation that each student demonstrate competence in understanding (1) American history, institutions, and ideals, (2) the Constitution of the United States, and (3) the principles of state and local government as established in California.

Requirement (1) in American history, institutions, and ideals may be satisfied by completion of one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 245</td>
<td>History of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>HIST 270</td>
<td>The United States to 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST 271</td>
<td>The United States Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>PAS 271</td>
<td>African-American History to 1865</td>
<td>3</td>
</tr>
<tr>
<td>PAS 272*</td>
<td>African-American History since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Problems in American History: 1865 to Present</td>
<td>3</td>
</tr>
</tbody>
</table>

The course taken to fulfill this requirement will not apply to General Education.

*(Note: Under catalogs prior to 1985-86, PAS 272 satisfied the U.S. Constitution and state and local government requirements, not the American History requirement.)*

Requirement (2) in the Constitution of the United States and requirement (3) in state and local government may be satisfied by one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 260</td>
<td>Constitutional Issues and the Chicano</td>
<td>3</td>
</tr>
<tr>
<td>CHS 445</td>
<td>History of the Chicano</td>
<td>3</td>
</tr>
<tr>
<td>PAS 161</td>
<td>American Political Institutions: A Black Perspective</td>
<td>3</td>
</tr>
<tr>
<td>POLS 155</td>
<td>American Political Institutions</td>
<td>3</td>
</tr>
<tr>
<td>POLS 355</td>
<td>American National, State, and Local Governments</td>
<td>3</td>
</tr>
</tbody>
</table>

The course taken to fulfill this requirement will not apply to General Education.

In addition to the courses listed above, requirement (3) may be satisfied by the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 403</td>
<td>State and Local Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Students transferring to CSU Northridge from out-of-state must meet the state and local government requirement.

Out-of-state students who have completed a transfer course covering the Constitution of the United States, and who complete Political Science 155 at CSU Northridge will receive only partial unit credit for Political Science 155.

**POLS 490CA Supervised Individual Project – California Government**

Eligible students may petition to meet requirement (1) by challenge examination in appropriate courses.

All students earning teaching credentials must also meet the requirement in the Constitution of the United States, whether or not they are in a degree program. This requirement may be met by successful completion of any of the courses listed as fulfilling the requirement.

**WRITING SKILLS**

(1) **Lower Division Writing Requirement.** *(Prerequisite: English Placement Test)*

The University requires of all students a 3-unit lower division course in composition. Students must complete the lower division writing requirement no later than the semester in which 45 units are completed. Transfer students with more than 35 units, who have not completed the lower division writing requirement, must do so within the first semester of residence. Students may meet this requirement by:

(a) Completing one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 155</td>
<td>Freshman Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 155</td>
<td>Freshman Composition</td>
<td>3</td>
</tr>
<tr>
<td>PAS 155</td>
<td>Freshman Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

or an equivalent course at an accredited community or 4-year college; or

(b) Receiving a satisfactory score on the English Equivalency Examination or the Advanced Placement Test.

Completion of this requirement fulfills a portion of the Basic Subjects Section of the General Education Program.

*Note:* Completion of the lower division writing requirement is a prerequisite for all upper division General Education courses.

(2) **Upper Division Writing Requirement.**

The University has implemented the Trustee Policy for the Writing Skills Graduation Requirement for all upper division students who will graduate Spring 1982 or thereafter in the following manner:

a. Students who have completed 56 units and have met the lower division writing requirement shall be required to take an essay examination.

b. Undergraduate students are encouraged to take the Writing Proficiency Examination (WPE) as early as possible after (a) above has been met, but must take the WPE no later than the semester in which 90 units are completed. Students who have not taken the WPE by the completion of 90 units may have an advisement hold placed on their subsequent registration(s).

c. Students who fail shall be permitted to repeat the examination. Subsequent attempts, however, shall be permitted only after the students have taken further steps to improve their writing deficiencies, such as completion of an appropriate course in writing.

d. The examination shall consist of an essay on an assigned topic evaluated by the faculty.

e. The criteria of evaluation shall include (1) a demonstration of analytic skills, (2) effective organization, (3) use of relevant concrete detail, (4) proper use of English grammar, diction, and mechanics.
f. Administrations of the examination will be announced in the Schedule of Classes as well as in other official University publications, such as @csun.edu and the Sundial.
g. The examination will be scheduled at least five times within an academic year.
h. Registration cards are available at University Cash Services and at the Testing Office.
i. Certification of graduation writing competence shall be transferable from one CSU campus to another.

GRADE POINT AVERAGE
Each student shall complete with a grade point average of 2.0 (grade C on a 4-point scale) or better:
• All units attempted, including those accepted by transfer from another institution.
• All upper division units required in the major.
• All upper division units required in the minor.
• All units attempted at the University.

RESIDENCY REQUIREMENT
At least 30 units must be earned in residence; at least 24 of the 30 units must be in upper division courses, 12 of the units must be in the major, and 9 of the units must be in General Education.
(CSU Northridge coursework taken in Open University is considered residence with a maximum of 24 special session units.)

TOTAL UNITS
At least 124 units for the B.A. degree.
At least 128 units for the B.S. degree.

UNIT DISTRIBUTION
At least 40 upper division units for the B.A. degree.
At least 36 upper division units for the B.S. degree.
At least 9 upper division units in General Education.

FACULTY APPROVAL: CLEARANCE FOR GRADUATION
Application for Graduation, Graduation Evaluation and Diploma: Undergraduate students must file an Application for Graduation and Diploma with the Office of Admissions and Records before they can be considered for graduation. See information below on how to apply for your Bachelors degree.

DEGREE PROGRAMS
California State University, Northridge offers the following baccalaureate degree programs:
Accountancy.................................................................B.S.
African American Studies..............................................B.A.
Anthropology..............................................................B.A.
Art.................................................................B.A.
Asian American Studies..............................................B.A.
Biochemistry.............................................................B.S.
Biology.................................................................B.A.
Biomedical Physics....................................................B.A.
Business Administration..............................................B.S.
Chemistry.................................................................B.A.
Chemistry.................................................................B.S.
Chicano and Chicana Studies.......................................B.A.
Child Development....................................................B.A.
Communicative Disorders..........................................B.A.
Computer Science......................................................B.S.
Deaf Studies.............................................................B.A.
Earth Science............................................................B.A.
Economics.................................................................B.A.
Engineering.............................................................B.S.
Civil Engineering......................................................B.S.
Computer Engineering..............................................B.S.
Electrical Engineering..............................................B.S.
Manufacturing Systems Engineering..........................B.S.
Mechanical Engineering.............................................B.S.
English.................................................................B.A.
Environmental and Occupational Health.....................B.S.
Family and Consumer Sciences.....................................B.A.
French.................................................................B.A.
Geography.............................................................B.A.
Geology.................................................................B.S.
German.................................................................B.A.
Health Science........................................................B.S.
History.................................................................B.A.
Humanities..............................................................B.A.
Journalism...............................................................B.A.
Kinesiology.............................................................B.S.
Liberal Studies........................................................B.A.
Linguistics..............................................................B.A.
Mathematics..............................................................B.A.
Music.................................................................B.A.
Music.................................................................B.M.
Nursing.................................................................B.S.
Philosophy..............................................................B.A.
Physics.................................................................B.S.
Political Science.......................................................B.A.
Psychology..............................................................B.A.
Radio, Television and Film.........................................B.A.
Recreation...............................................................B.S.
Religious Studies.....................................................B.A.
Sociology...............................................................B.A.
Spanish.................................................................B.A.
Special Major........................................................B.A.
Speech Communication.............................................B.A.
Theatre Arts............................................................B.A.
Urban Studies and Planning.......................................B.A.
Women’s Studies......................................................B.A.

Refer to specific departments in the Courses of Study section for detailed requirements of each program.

HOW TO APPLY FOR YOUR BACHELOR’S DEGREE
1. GET A SIGNED DEPARTMENTAL GRAD CHECK FROM YOUR FACULTY ADVISOR.
   Make an appointment with your faculty advisor to obtain a signed departmental evaluation (or departmental grade check) of your major requirements. If you plan to graduate with a minor or a second major, you will also need signed evaluations from your advisors in those programs. This signed form constitutes formal approval of your program by the faculty. Make sure that you get a signed original and a copy of the departmental grad check.

2. TURN IN THE DEPARTMENTAL GRAD CHECK TO ADMISSIONS AND RECORDS.
   Bring your departmental evaluation to the Office of Admissions and Records along with your Application for Graduation and Diploma. You will be required to pay a filing fee. Deadline dates for filing are published each semester in the Schedule of Classes; note that there is a late fee if you do not file on time. PAYING THE LATE FEE DOES NOT INSURE RECEIVING YOUR GRAD CHECK PRIOR TO YOUR LAST SEMESTER.

3. LOOK FOR YOUR UNIVERSITY GRADUATION EVALUATION IN THE MAIL.
   You will receive a university graduation evaluation from your Graduation Evaluator showing what courses and other degree requirements you have not yet completed. If you turned in your departmental grad check and paid your fee by the published deadline, the university
graduation evaluation will reach you before the Touch Tone Registration date of your final semester. Call your departmental advisor or your Graduation Evaluator if you have any questions about your evaluation. The Graduation Evaluation reflects units applicable toward degree requirements only. Therefore, this figure may be lower than the cumulative units reflected on other CSU Northridge documents.

4. DECIDE WHETHER TO PARTICIPATE IN THE GRADUATION CEREMONY.
You will be invited to the commencement ceremony for the academic year in which you graduate. If you decide to participate in the annual spring commencement ceremony, follow the instructions in the commencement handbook.

Note that participation in the ceremony does not mean that you have officially graduated and qualified for your bachelor’s degree. If, in your final semester, you don’t complete a course or earn a grade as anticipated, you will still need to complete all course and credit requirements required for your degree. Additionally, you will need to change your graduation date at Admissions and Records for the semester or summer of actual completion.

5. GET YOUR DIPLOMA.
Your diploma and your letter of congratulations will be mailed to you about three to six weeks after your official graduation date. Note that there are three official graduation dates each calendar year: the final day of the Fall semester; the final day of the Spring semester; and the final day of the last Summer session. These are the only dates on CSU Northridge diplomas.

DOUBLE MAJOR
A student may complete two majors within a single degree. When a student completes two majors within a single Bachelor of Arts or Bachelor of Science degree, both majors will be recorded on the diploma if the student so requests. Coursework taken to satisfy the requirements for one major may, where appropriate and with department approval, be used to satisfy the requirements of the second major.
See Change of Major or Minor in the Enrollment Regulations section (Appendix A) for further information.

MINOR
Although a minor is not required for a baccalaureate degree, many students elect a minor to strengthen preparation in areas related to the major field or to career choices. Students may, in conjunction with a CSU bachelor’s degree program, elect to complete the requirements for one or more minors which have been approved and are listed in the catalog. A minor departmental evaluation must be presented to the Office of the Graduation Evaluators for each minor desired. Students changing their minors after their minor departmental evaluations have been submitted to the Office of Admissions and Records should be aware that they may be required to complete the minor requirements in effect at the time of change. The completion of a minor will be indicated on the transcript at the time of graduation or thereafter when requirements are met. Interested students should consult an advisor in the department offering the minor of their choice.

Students wishing to pursue academic minors should become acquainted with the following guidelines:

a) The minimum number of units required in a minor program is 18; the minimum number of upper division

units required in a minor program is 8. A minimum of 6 units of upper division work must be taken in residence at CSU Northridge.
b) Departments may not offer a major and a minor to the same student, nor more than one minor to the same student unless the department has been granted the approval of the Educational Policies Committee.
c) Restrictions against overlapping credit in the General Education program are not applicable to courses in the minor program.
d) A minor departmental evaluation must be presented to the Office of Admissions and Records for each minor desired.
e) Failure to complete a declared minor program will not delay a student from obtaining a bachelor’s degree.
f) The minor is recorded on the student’s CSU Northridge transcript but is not indicated on the diploma.

SECOND BACHELOR’S DEGREE
A postbaccalaureate student who holds a recognized bachelor’s degree from an accredited institution may pursue a program leading to a second bachelor’s degree. The major may not be the same as the previously awarded degree. All students are urged to consult with a department advisor to determine whether a second bachelor’s or a graduate program better meets their needs.

A. CSU NORTHRIDGE GRADUATES SEEKING SECOND BACHELOR’S DEGREE
CSU Northridge graduates must:

1. Complete a minimum of 24 upper-division units in residence at CSU Northridge since completion of the most recent degree, of which at least 12 units must be in the major. Completion of the major may require more than 12 units;
2. Complete the Upper Division Writing Proficiency requirement;
3. Complete all units required in the major. Graduate level courses (600-799 series) may not be applied toward second bachelor’s degree requirements, nor can coursework taken to meet the second bachelor’s degree apply toward a master’s degree;
4. Maintain a minimum grade-point average of 2.0 in the major and 2.0 in all units attempted at CSU Northridge since the awarding of the last degree;
5. File an undergraduate application for graduation and diploma.

B. TRANSFER GRADUATES SEEKING SECOND BACHELOR’S DEGREE AT CSU NORTHRIDGE
Students seeking a second bachelor’s degree from CSU Northridge, after having received a baccalaureate degree from another accredited institution, must:

1. Complete at least 30 units in residence at CSU Northridge since completion of the first bachelor’s degree, including 24 upper division units and at least 12 units in the major. Completion of the major may require more than 12 units;
2. Complete the California State University General Education requirements, by taking 9.0 upper division GE units in residence, selected from at least two different sections of General Education, without restriction of subsections, or the approved equivalent.
   a. Second bachelor’s students who have received their first degree at another CSU campus do not need to complete additional GE at CSUN.
b. Second bachelor’s students approved for a Health Science (Physical Therapy) major do not need to complete additional GE at CSUN.

3. Complete the Title 5 requirements in American History, Institutions and Ideals; U.S. Constitution, and California State and Local Government.

Second bachelor’s students approved for a Health Sciences (Physical Therapy) major are exempt from this requirement.

4. Complete the Upper Division Writing Proficiency requirement;

5. Complete all units required in the major. Graduate level courses (600-799 series) may not be applied toward second bachelor degree requirements, nor can coursework taken to meet the second bachelor’s degree apply toward a master’s degree;

6. Maintain a minimum grade-point average of 2.0 in the major and 2.0 in all units attempted at CSU Northridge since the awarding of the last degree;

7. File an undergraduate application for graduation and diploma.

SPECIAL MAJOR

The B.A. Special Major is designed to meet the academic needs of students whose educational goals do not fit within the framework of existing majors and cannot be met within the 124 unit minimum by combining existing majors. The following guidelines, established by the Educational Policies Committee will govern the B.A. Special Major.

GUIDELINES FOR THE SPECIAL MAJOR PROGRAM:

1. The Special Major cannot be used simply to bypass normal graduation requirements, nor as an alternative to the completion of the degree requirements for a program in which the student is in academic difficulty.

2. Regular matriculated students who meet the following minimum academic requirements may apply for admission to the program:
   a.) all developmental work must be completed
   b.) the student must have and maintain a cumulative grade point average of 2.5

3. The Special Major must reflect a carefully structured interdisciplinary program, normally involving three disciplines in recognition of the fact that interdisciplinary educational goals involving only two disciplines can usually be met by combining a major and minor.

4. Minimum requirements for a Special Major will be a program of at least 24 upper division semester units recommended by the student’s Special Major Advising Committee prior to the undertaking of the program.

5. One discipline, normally that with the largest number of units specified in the program, is to be designated as the principal area of concentration, and the department offering this discipline will serve as the student’s primary advising base.

6. Neither lower division nor upper division courses applied to General Education, or to the requirements in American History and ideals, and state and local government, will be applicable toward minimum requirements of the Special Major.

7. The Special Major will consist of a minimum of 44 and a maximum of 66 semester units.

8. The Special Major is normally not available as a part of a “double major,” nor is it available to students pursuing a second bachelor’s degree.

PROCEDURES FOR APPLYING FOR B.A. SPECIAL MAJOR PROGRAM:

1. Students will formally request admission to a B.A. Special Major program from the Office of Undergraduate Studies, citing academic and professional reasons. Students deemed eligible for a Special Major will be assigned a faculty advisor to prepare an appropriate program of study.

2. A student who has completed 80 semester units will normally not be eligible for the Special Major. However, transfer students with more than 80 semester units, if previously enrolled in a B.A. Special Major program at another (CSU) campus, may, with approval by the Associate Vice President for Undergraduate Studies be admitted to CSU Northridge’s B.A. Special Major program.

3. The Coordinator of the Special Major Program will appoint a Special Major Advising Committee made up of the chairs of those departments involved or their designees and schedule a meeting with the applicant and the Committee to determine the Special Major program of studies. Once approved by the chairs of the departments involved, the program becomes the official contract for the student’s Special Major. Any substitutions or waivers must be agreed to by both the department involved and the program director.

4. Degree titles posted to transcripts must conform to existing titles for majors, minors and options approved by the faculty.

5. No request for a B.A. Special Major will be approved until student records have been received and evaluated by the Office of Undergraduate Studies.

6. Final approval for admission to the B.A. Special Major program must be obtained from the Associate Vice President for Undergraduate Studies.

POLICIES AND REGULATIONS

For a more detailed discussion of academic policies, consult the Appendixes on Admission, Enrollment, and Student Conduct in the back of this catalog.

ACADEMIC INTERNSHIP POLICY

1. Academic Internship shall be defined as undergraduate courses in which experience is the predominant teaching-learning mode. This faculty-approved experience shall be in organizations other than the academic departments offering the courses. These courses shall include significant involvement of students and hosts with faculty in planning, processing, and evaluating the learning resulting from these experiences. Normally, Academic Internship courses shall be at the upper-division level. Upon justification by the department, however, exceptions may be granted by the Educational Policies Committee (EPC) to allow for lower-division Academic Internship.

2. Academic Internship shall not include Supervised Student Teaching.

3. Academic Internship credit shall not be granted for prior life experience.

4. The University and the participating organizations shall adhere to equity and diversity guidelines.

5. Academic Internship shall include the following elements:
   a. Identified relationship to the academic discipline offering the course.
   b. Screening or selection procedures for students seeking to enroll in these courses, which shall be designated as restrictive.
STUDENT OUTCOMES ASSESSMENT POLICY

1. An orientation to experiential learning concepts.
2. A written learning agreement accepted by students, faculty, and host describing the activities, learning processes, and evaluation methods used in the course.
3. In addition to activities required by the instructor, a minimum of 120 work hours per semester is expected for a three unit course. Individual courses may require work hours beyond this minimum.
4. A mid-semester evaluation of each student and the internship experience by the instructor.
5. Facilitation of learning by the instructor throughout the experience, including both a written element: educational journal, reports, and/or portfolios; and a student contact element: seminars or group meetings.
6. Academic credit shall be granted upon instructors’ determination of students’ learning. This process for final determination of academic credit shall be defined in the learning agreement and include contributions by student and host.
7. All Academic Internship courses shall be given the same number, e.g., 394, 494, 594, in all departments that offer them.
8. Normally, students’ performances in Academic Internship shall be evaluated on a Credit/No Credit basis. However, upon justification by the department and approval by EPC, a different basis of grading may be added (e.g., A—F, CR/NC/U).
9. Normally, a student may count no more than 6 units of Academic Internship course credit toward a major. However, upon justification by the department, EPC may allow up to a total of 12 units. A student may count no more than 12 units of academic internship course credit toward a baccalaureate degree.
10. Staffing shall be at an S-factor appropriate to the level of involvement of the course instructor. (S-36 or S-48 must include seminars and regular student contact, while S-78 may focus the instructor’s involvement through group meetings and written methods of communication.)

STUDENT OUTCOMES ASSESSMENT POLICY

Students may be included in outcomes assessment projects. Among the types of assessment methods that might be used are portfolios, capstone seminars, certification examinations, senior papers, or juried performances, productions, recitals and art shows, or research projects, or supervised field experiences. Departments may have, unique to their particular subject(s), other assessment projects of this kind.

- The project must have curricular value and must be meaningful in the context of the major.
- Preferably, the project will be adapted from or included in an existing program requirement or course.
- Students will have a high stake in the outcome of the project which can be, at the initiative of the department and, if necessary, at the approval of the Educational Policies Committee, a graduation requirement or part of a required course.
- The project will evaluate competence in the major and relevant basic skills.
- To the extent feasible, the project should be organized to give programs and the University visibility in the community and professional world. Therefore, departments and programs are encouraged to actively seek sources outside of the University, including alumni and employees, for involvement in all stages of assessment.

ATTENDANCE IN CLASS

A student who is absent from the first two class meetings loses the right to remain on the class roll, UNLESS the instructor is notified that the absence is temporary. The student who has lost the right to remain in the class must formally withdraw from the class, following University procedures and deadlines; otherwise the instructor will assign a grade of “U” which counts as a grade of “F” in computing grade point averages.

If no instructor was assigned to the course in advance, the student must notify the chair of the department that his or her absence from the class will be temporary.

ENROLLMENT POLICIES

CLASS LEVELS

Undergraduate students are classified according to the number of units completed, calculated as follows:

<table>
<thead>
<tr>
<th>STATUS</th>
<th>UNITS COMPLETED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>0-29</td>
</tr>
<tr>
<td>Sophomore</td>
<td>30-59</td>
</tr>
<tr>
<td>Junior</td>
<td>60-89</td>
</tr>
<tr>
<td>Senior</td>
<td>90+</td>
</tr>
</tbody>
</table>

MAXIMUM UNIT LOAD

Undergraduate students may enroll in a maximum of 15 units during the TTR appointment period and no more than 19 units thereafter. Students wishing to exceed 19 units must take an Extra Unit Card (available in Admissions and Records) to the Chair of the department of their major (or his or her designee) during the Change of Program period, and obtain departmental approval of the overload. Undeclared majors should secure approval from the Advising Resource Center/EOP. If the department approves, the student may then add the additional units by returning the signed Extra Unit Card and following the usual add procedure. Failure to secure the required approval will result in administrative action to reduce the student’s program to the approved level.

FINAL EXAMINATION POLICY

Student achievement shall be evaluated in all courses. Students shall be fully informed of the manner of their evaluation as well as the requirements and assignments at the start of each semester. In lecture courses, no final examination may be scheduled by an instructor prior to the regularly scheduled time. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements in advance with the instructor either to take the examination at another time prior to the deadline for reporting grades, or request that a grade of incomplete be assigned, and must then follow the regulations concerning the removal of the incomplete. No exceptions will be made to these regulations without the written approval of the instructor, the department chair, and the dean of the college in which the course is offered.

GRADING SYSTEMS AND POLICIES

The University uses a combination of the following grading options:


Faculty define the grading criteria for all courses, including whether or not the plus/minus system will be used, and present this information in writing to all students enrolled, no later than the second week of classes. Any changes in
grading policies should be provided in writing to students before such changes are implemented.

**CREDIT/NO CREDIT GRADING:** CR, indicating "passed with credit," is given for work equivalent to C or better for undergraduate students and for work equivalent to B or better for postbaccalaureate and graduate students. NC, indicating "no credit," is given for work equivalent to C-, D+, D, D-, or F for undergraduate students and for work equivalent to B-, C+, C, C-, D+, D, D-, or F for postbaccalaureate and graduate students.

Restrictions concerning the nontraditional grading option given undergraduate students can be found under the Credit/No Credit Policy that follows. Postbaccalaureate and graduate students should refer to the Grading System discussion under the Graduate Programs section for further information regarding grading options.

**CREDIT/NO CREDIT POLICY**
Undergraduate students, not on probation, may elect the Credit/No Credit (CR/NC) option for one or more courses each term, up to a maximum of 18 units applicable to the bachelor's degree. The CR or NC grade will not be considered in computation of the student's grade point average. Students with a catalog year of 1986-87 or after CANNOT apply courses taken on a CR/NC basis toward the satisfaction of ANY of the following degree requirements:

- **THE MAJOR**, except those courses offered on a CR/NC basis only, subject to departmental approval. (Note: Additional courses in the discipline of the major beyond those used to satisfy major requirements may not be taken for Credit/No Credit.)
- **THE MINOR**, except those courses offered on a CR/NC basis only, subject to departmental approval.

**GENERAL EDUCATION**

**TITLE 5 REQUIREMENTS**

**PROFESSIONAL COURSES LEADING TO A TEACHING CREDENTIAL,** except for student teaching. Students may decide to elect the Credit/No Credit option in courses during the first three weeks of the semester. There will be NO change in the basis of grading after the third week of classes.

**APPLICATIONS.** A maximum of 18 units may be applied toward the bachelor's degree for Credit graded courses taken at CSUN. If 18 or more semester Credit graded units are accepted on transfer from other institutions, any additional Credit graded CSUN courses may be used to satisfy degree requirements.

### GRADING SYMBOLS:

<table>
<thead>
<tr>
<th>GRADE</th>
<th>DEFINITION</th>
<th>GRADE POINT</th>
<th>EFFECTIVE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Outstanding</td>
<td>4.0</td>
<td>1958 - 1987</td>
</tr>
<tr>
<td>A-</td>
<td></td>
<td>3.7</td>
<td>1987 -</td>
</tr>
<tr>
<td>A+</td>
<td></td>
<td>3.3</td>
<td>1987 -</td>
</tr>
<tr>
<td>B</td>
<td>Very Good</td>
<td>3.0</td>
<td>1958 - 1987</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.7</td>
<td>1987 -</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2.3</td>
<td>1987 -</td>
</tr>
<tr>
<td>C-</td>
<td></td>
<td>2.0</td>
<td>1958 - 1987</td>
</tr>
<tr>
<td>C+</td>
<td></td>
<td>1.7</td>
<td>1987 -</td>
</tr>
<tr>
<td>D</td>
<td>Barely Passing</td>
<td>1.3</td>
<td>1987 -</td>
</tr>
<tr>
<td>D-</td>
<td></td>
<td>1.0</td>
<td>1958 - 1987</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0.0</td>
<td>1958 -</td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
<td>0.0</td>
<td>1967 -</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit</td>
<td>0.0</td>
<td>1973 -</td>
</tr>
<tr>
<td>U</td>
<td>Unauthorized Incomplete</td>
<td>1.0</td>
<td>1958 - 1977</td>
</tr>
</tbody>
</table>

**ADMINISTRATIVE GRADING SYMBOLS**

The following definitions apply to the grades assigned for various categories of enrollment.

**INCOMPLETE (I).** The symbol "I" indicates that a portion of required coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified reasons, that a substantial portion of the course requirement has been completed with a passing grade, and that there is still a possibility of earning credit. The work that is incomplete normally should be of such a nature that it can be completed independently by the student for later evaluation by the instructor. An incomplete shall not be assigned when a student would be required to attend a major portion of the class when it is next offered. It is the responsibility of the student to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements which must be satisfied to remove the incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated.

Unless an approved "Request for Extension of Time to Remove Incomplete" form has been filed with Admissions and Records, an "I" must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment.

An incomplete will be counted as equivalent to an F (or an NC if applicable) for grade point average computation under the following conditions:

- If a student fails to complete the assigned work within one calendar year.
- If an undergraduate student re-enrolls in the course before making up the work during the calendar year.

Students who believe they meet the necessary conditions to be assigned an incomplete should secure a Request for an Incomplete form from any academic department office, complete the prescribed information and contract with the instructor of the appropriate course for the assignment of an incomplete. This process should be completed in person prior to the submission of final grades by the instructor. Further information concerning the procedures to be followed to request or remove an incomplete is given on the Request for an Incomplete form.

**UNAUTHORIZED INCOMPLETE (U).** For purposes of grade point computation, the "U" grade is equivalent to an "F." The symbol "U" indicates that an enrolled student did not officially withdraw from the course and failed to complete course requirements. It may also be assigned by the instructor when assignments or course activities or both were insufficient to evaluate academic performance using A, B, C, D, or F.

**SATISFACTORY PROGRESS (SP).** The symbol "SP" is used in connection with thesis, project, development and similar courses where assigned work frequently extends beyond a single academic term. It indicates that work is in progress and has been evaluated and found to be satisfactory to date, but that the assignment of a precise grade must await
Honors programs are offered in the Departments of Biology, Business, Economics, English, and Physics, in the College of Business Administration and Economics, with separate programs in Business and Economics, and in General Education. Specific information is available in departmental offices.

Honors at graduation, a student must:

1. Complete a minimum of 45 units of work in letter-graded courses in this University.
2. Earn a grade point average of 3.50 or above in all work taken in this University.
3. Earn the following grade point average in all undergraduate courses, including transfer work:
   - Summa Cum Laude: GPA of 3.90 or above.
   - Magna Cum Laude: GPA of 3.75 to 3.89.
   - Cum Laude: GPA of 3.50 to 3.74.

Honors programs are offered in the Departments of Biology, Business, Economics, English, and Physics, in the College of Business Administration and Economics, with separate programs in Business and Economics, and in General Education. Specific information is available in departmental offices.

University Honors Program in General Education

The University Honors Program in General Education offers high-achieving CSU Northridge students a diverse, enriched academic experience in General Education that promotes the fullest development of academic potential.

Special Sections of General Education Courses

Honors students enroll in small, restricted sections of courses required for General Education. These courses are taught by outstanding CSU Northridge professors who modify course content and methodology as appropriate for Honors students.

Extracurricular Academic Activities

Students, faculty, and mentors share in the excitement and pleasure of being a part of a community of dedicated learners in a series of special events each semester which may include films, plays, book discussions, guest speakers, and field trips.

Certificate

Students who complete 15 units of Honors courses and who meet the requirements of the program will be awarded a General Education Honors Certificate. Recognition of participation will be made both on the student’s transcript and at the annual university Honors Convocation.

Review Day Policy

Except for classes meeting once a week, the days following the last day of formal instruction and before the beginning of examinations shall be considered review days. No new material shall be introduced, and no quizzes or examinations of any kind shall be administered on these days.

Review sessions may be conducted on review days at the regularly scheduled class time with the mutual agreement of the instructor and class. However, if classes do not meet for such reviews, faculty shall be available in their classrooms or offices during the regularly scheduled class and office hours.

Scholastic Status

Any student who is eligible to enroll in the University is considered to be in good standing. This means that undergraduate students who have maintained satisfactory scholarship with at least a 2.0 CSUN and cumulative Grade Point Average, as well as those who are on probation, are in good standing.

Grade Point Average (GPA), used as a measurement of satisfactory scholarship, is calculated by dividing the number of grade points by the number of units attempted for the grades A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F. (CR and NC are not used in this calculation.)

Students who are disqualified or under disciplinary suspension are not routinely eligible to enroll and are therefore not considered in good standing. See the Graduate Programs section for definition of Graduate Good Standing.

Academic Probation and Disqualification

Scholastic Probation: An undergraduate student will be placed on probation if his or her cumulative or CSUN grade point average is below 2.0. A student will be continued on probation until both the overall and the CSUN grade point average are 2.0 or better, or until he or she is disqualified under one of the provisions of the disqualification regulations.

Graduate students should consult the Graduate Programs
section for information concerning Graduate probation provisions.

**ADMINISTRATIVE ACADEMIC PROBATION:** A student may be placed on Administrative Academic probation for withdrawal from a substantial portion of a program in two successive terms, for repeated failure to progress toward a degree, or for failure to comply with an academic requirement or regulation which is routine for all students or for a defined group of students.

**DISQUALIFICATION:** Undergraduate students on probation will be disqualified when:

- a) they are admitted or readmitted on probation and fail to meet the conditions established at the time of their admission or readmission, or
- b) they have a cumulative deficiency on either their overall or CSU Northridge record equal to or greater than the floor levels indicated below:

  - Freshman, Sophomore (0-59 units completed) 15 grade points below a 2.00
  - Juniors (60-89 units completed) 9 grade points below a 2.00
  - Seniors (90 or more units completed) 6 grade points below a 2.00

Graduate students should consult the Graduate Programs section for information concerning Graduate disqualification provisions.

Undergraduate students and second baccalaureate degree candidates are restricted to a maximum of two reinstatement from disqualification. If a student receives a third disqualification he/she may no longer matriculate at CSU Northridge. After a third disqualification, courses may be taken through the CSU Northridge Open University (Extension) but these courses cannot be used to offset grade point deficiencies or meet degree requirements.

Because of the structure of the academic year, undergraduate students and second baccalaureate degree candidates who meet the requirements for disqualification at the conclusion of a Fall semester will be placed on “special probation” for the Spring semester. Students on special probation will be entitled to take classes as matriculated students for the Spring semester after they establish an Academic Performance Agreement with the Academic Standards Board. The Academic Performance Agreement may extend beyond the Spring semester, but at the conclusion of the agreement, students must be at or above their floor level. Either of the following two situations will turn a special probation to a disqualification for the Spring semester:

- a. failure to register for the Spring semester;
- b. failure to establish an Academic Performance Agreement with the Academic Standards Board.

Students on special probation who fail to reduce their grade point deficiency to the level specified by their Academic Performance Agreement during the Spring semester will be disqualified at the end of the semester.

Undergraduate students and second baccalaureate degree candidates disqualified at the conclusion of a Spring semester will not be entitled to enroll in classes as matriculated students for the Fall semester. Without exception, the following requirement applies to ALL disqualified undergraduate students regardless of circumstances or proximity to degree: undergraduate students interested in returning to the University for a subsequent semester must submit a formal application for readmission and must submit all forms for consideration of reinstatement and transcripts of any college work completed in the interim. Consult the Schedule of Classes for information concerning deadline dates to submit the required readmission materials. For procedures governing reinstatement see “Readmitted Students” in the Admission section (Appendix A) of the Catalog.

**IMPROVING YOUR GRADE POINT AVERAGE**

**ACADEMIC RENEWAL:** The Trustees of The California State University have established a program of Academic Renewal whereby students who are having difficulty meeting graduation requirements due to a grade point deficiency may petition to have up to two semesters or three quarters of previous college work discounted from all considerations associated with meeting requirements for the baccalaureate degree. Academic Renewal is intended only to facilitate graduation from CSUN and is not applicable for individuals who already possess a baccalaureate degree or who meet graduation requirements without the approval of a petition for Academic Renewal.

**CONDITIONS:** In order to qualify for Academic Renewal all of the following conditions established by the Trustees must be met:

1. The student must present evidence in the petition that the coursework to be disregarded was substandard and not representative of the student’s present scholastic ability and level of performance, due to extenuating circumstances.
2. The student must present evidence that if the petition is denied, it would be necessary for the student to enroll in additional coursework involving one or more additional terms in order to qualify for graduation. The student should include the specific coursework or requirements involved. Normally, students should have completed 90 units prior to filing the petition.
3. Five years must have elapsed since the term or terms to be disregarded were completed. Terms taken at any institution may be disregarded.
4. Since completion of the term(s) to be disregarded, the student must have completed coursework at CSU Northridge of at least one of the following:
   - a. 15 semester units with at least a 3.00 GPA.
   - b. 30 semester units with at least a 2.50 GPA.
   - c. 45 semester units with at least a 2.00 GPA.

If and when the petition is granted, the student’s permanent academic record will be annotated so that it is readily evident to all users of the record that no work taken during the disregarded term(s), even if satisfactory, will apply toward baccalaureate graduation requirements. However, all work will remain legible on the record to insure a true and complete academic history.

A final decision on the petition will be made by the Academic Renewal Review Committee. The committee will review petitions only if all of the basic requirements (indicated above) have been met. Normally, students will be notified of the decision within 60 days after the completed petition is submitted.

**PROCEDURES:** Students must take the following steps to petition for Academic Renewal: (1) Obtain a departmental evaluation and request an Application for Graduation and Diploma, available at the Student Information Center. These will lead to a precise evaluation of their status regarding fulfillment of graduation requirements. (2) Obtain an
Undergraduate Petition form, available at the Student Information Center. (3) Complete the petition, indicating the specific terms which they are requesting be discounted. In the “reason” section of the petition students must make a specific statement concerning each of the four conditions listed above.

**REPEATING COURSES:** The University recognizes that undergraduate students may need to repeat one or more courses in order to fulfill degree requirements and/or enhance previously acquired skills. Students should seek academic advisement before deciding to repeat any course. A maximum of 15 semester units of CSU Northridge coursework may be repeated for the purpose of excluding grades. When a course is repeated for the purpose of excluding a grade, the subsequent enrollment must be on the same basis of grading as the first. Only one repeat per course is permitted for the purpose of improving the grade. The higher of the two grades is counted in the student’s grade point average. The lower grade is “forgiven” from GPA computation, but both grades appear on the student’s permanent record (transcript).

Students may not improve grades of courses taken at other institutions by repeating them at CSU Northridge, nor may students improve grades of courses taken at CSU Northridge by repeating them elsewhere.

**EXCESSIVE ENROLLMENT:** If a student enrolls in a course beyond catalog limitations, units earned will not be counted toward the baccalaureate degree. The units attempted and any grade points, however, will be averaged with the student’s other grades.

For information on the Graduate repeat policy, see the Graduate Programs section of the catalog.
GRADUATE PROGRAMS
GRADUATE PROGRAMS

GRADUATE STUDIES, RESEARCH AND INTERNATIONAL PROGRAMS

Administration Park 706; Phone: (818) 677-2138

Students with a baccalaureate degree who wish to continue their education for personal enrichment or to meet professional needs may do so at CSU Northridge either as a graduate student or as a postbaccalaureate student. For administrative purposes, a graduate student is one who has requested and received formal admission to a specific course of study that will lead to a master’s degree in one of the many disciplines available at CSUN. A postbaccalaureate student is one who has not declared a master’s degree as an objective but is nevertheless attending class and participating in academic work at the University.

Graduate status is subdivided into classified and conditionally classified standing, depending on whether or not certain University and departmental requirements have been met. These requirements are discussed later in this section of the catalog.

Graduate students in either category usually may enroll in 500- and 600-level courses, although in some programs enrollment is limited to the classified student. Graduate students normally must follow a specific course of instruction identified to them by the department graduate coordinator and described for the individual department in the Courses of Study section of this catalog.

Postbaccalaureate status is subdivided between postbaccalaureate classified and postbaccalaureate unclassified. A Postbaccalaureate classified student is one who has been admitted to a credential program in the School of Education. Students interested in earning a credential should refer to the section of the catalog entitled Credential Programs. A Postbaccalaureate unclassified student usually attends for professional and/or for personal enrichment only. Such students require permission of the instructor and the department to enroll in courses in the 500/600 series. Schools and departments with a large enrollment of graduate students sometimes restrict admission to undergraduate courses as well.

DEGREE PROGRAMS

The following master’s degree programs are offered at CSUN:

Accountancy ................................................................. M.S.
Anthropology ............................................................... M.A.
Art ................................................................. M.A./M.F.A.

Biology .............................................................................. M.S.
Business Administration .............................................. M.B.A.
Chemistry ........................................................................ M.S.
Communicative Disorders ........................................... M.S.
Computer Science ......................................................... M.S.
Counseling ....................................................................... M.S.
Education, Educational Psychology .............................. M.A.
Education, Elementary Education .............................. M.A.
Educational Administration ......................................... M.A.
Electrical Engineering ................................................. M.S.
Engineering ................................................................. M.S.
English** ........................................................................ M.A./M.F.A.
Environmental Occupational Health .......................... M.S.
Family and Consumer Sciences .............................. M.S.
Genetic Counseling ......................................................... M.S.
Geography ...................................................................... M.A.
Geology* ......................................................................... M.S.
Health Science, Health Administration .......................... M.S.
History ........................................................................... M.A.
Interdisciplinary Studies ................................................. M.A./M.S.
Kinesiology .................................................................... M.A.
Linguistics ..................................................................... M.A.
Mass Communication ..................................................... M.A.
Mathematics ..................................................................... M.S.
Mechanical Engineering ............................................... M.S.
Chicano/Chicana Studies .............................................. M.A.
Music ........................................................................... M.A./M.M.
Physical Therapy ......................................................... M.P.T.
Physics ........................................................................... M.S.
Political Science ............................................................. M.A.
Psychology ..................................................................... M.A.
Public Administration ..................................................... M.P.A.
Public Archeology ........................................................... M.A.
Public Health ................................................................... M.P.H.
Recreation ..................................................................... M.S.
Sociology ........................................................................ M.A.
Spanish ............................................................................... M.A.
Secondary Education .................................................... M.A.
Special Education .......................................................... M.A.
Speech Communication .................................................. M.A.
Taxation ........................................................................ M.S.
Theatre Arts ..................................................................... M.A.

Note: *Offered cooperatively with CSU Long Beach & CSU Los Angeles. **Consortium program administered by CSU Chico.

Refer to specific departments in the Courses of Study section of the catalog for detailed requirements of each program.
ADMISSION TO THE UNIVERSITY
In order to be admitted to CSUN as either a Postbaccalaureate Unclassified student or as a Graduate student, students must meet the following requirements:
1. Have a baccalaureate degree from an accredited university or college.
2. Have been in good standing at the last institution attended.
3. Have at least a 2.5 grade point average in the last 60 SEMESTER/90 QUARTER units attempted, independent of when the baccalaureate was granted. The entire semester or quarter in which the 60/90 units began will be used in this calculation. Lower division courses or courses taken in extension (except in concurrent enrollment at CSUN in the upper division), after obtaining the bachelor’s degree, will be EXCLUDED from the calculation.

Students wishing to enroll in the University must follow the instructions supplied by the Office of Admissions and Records in the Admissions section of this catalog. Once applications are received, they will be evaluated at appropriate offices, and students will be advised whether or not they have been accepted into the University.

ADMISSION TO THE DEPARTMENT
The applications of students meeting University requirements for admission and desiring admission to a master’s program will be reviewed in the appropriate department. The department will determine whether or not the student meets requirements for admission to its program. SOME DEPARTMENTS MAY REQUIRE A SEPARATE DEPARTMENTAL APPLICATION. Those students who meet departmental and University requirements will be admitted as either Conditionally Classified or Classified graduate students.

CONDITIONALLY CLASSIFIED STATUS
Students who do not meet all requirements may, nevertheless, be accepted as CONDITIONALLY CLASSIFIED students, subject to meeting various University and departmental requirements for Classified status. It is important to achieve full Classified standing prior to completing more than 12 units of graduate coursework appearing in the formal program. (NO MORE THAN 12 UNITS OF WORK TAKEN PRIOR TO ATTAINING FULLY CLASSIFIED STATUS WILL BE APPLIED TO A MASTER’S PROGRAM.)

CLASSIFIED STATUS
To be granted Classified Status, students must have a 3.0 grade point average for all work attempted as a Conditionally Classified student and in any courses required by the department for admission to its program.

Once the requirements for Classified status have been met, it is the responsibility of the student to notify the department and of the department to notify Graduate Evaluation Services, Graduate Studies, Research and International Programs by filing the “Request for Classification” form (OGS 2).

To meet the minimum requirements for CLASSIFIED STATUS, the student must fulfill two or more of the following (individual departments may have more stringent standards):
1. A 3.0 grade point average or higher in all work undertaken since admission to the program.
2. Hold a graduate degree from an accredited institution.
3. Score at or above the 50th percentile on one of the three portions of the aptitude test of the Graduate Record Examination, i.e., verbal, quantitative, or analytic.* (Some Departments may waive the GRE requirement if student’s undergraduate CUMULATIVE grade point average is 3.0 or higher.)
4. Score at or above the 50th percentile on some other nationally normed University-approved examination.
5. Attain a satisfactory performance on a departmental admissions assessment approved by the University.

In addition to the above, each student must pass the Upper Division Writing Proficiency Exam (UDWPE).

Students having met the Upper Division Writing Proficiency Exam (UDWPE) at another CSU campus may submit in writing official notification of a passing score for approval.

INTERNATIONAL STUDIES
1. Have at least a 2.5 grade point average in the last semester of their senior year. Application blanks for the Graduate Record Examination may be obtained from the Office of Graduate Studies or from Educational Testing Service (ETS), Box 955, Princeton, New Jersey 08540. The completed application must be submitted to the Educational Testing Service at least four weeks prior to the test date.

Applications for the Graduate Management Admission Test, required of Business degree majors, are also available in the Office of Graduate Studies or from ETS.

INTERDISCIPLINARY STUDIES
A student may elect in very unusual circumstances to pursue an MA or MS in an Interdisciplinary Studies Major. This program is developed jointly by the student, faculty from at least two disciplines, and the Associate Vice President for Graduate Studies, Research and International Programs. Admission requirements for the Interdisciplinary Studies Major include being in good academic standing and having at least a 3.0 grade point average in all 400- 500-, and 600-level courses attempted. In addition, the requirements for classified status of the participating departments must be satisfied. More specific information and procedures for developing an Interdisciplinary Studies Major program may be obtained from Graduate Studies, Research and International Programs.

EARNING A SECOND MASTER’S DEGREE
It is permissible to seek a second master’s degree in a field unrelated to the academic discipline of the first master’s, but courses taken to meet the requirements for the first master’s degree are NOT applicable to the second one.

ADVANCEMENT TO CANDIDACY
PREREQUISITES
Advancement to Candidacy is the next step after achieving Classified Status and signifies approval of a plan of study by the student’s major department, the Associate Vice President of Graduate Studies and the Graduate Evaluation Services Office. Prerequisites to Advancement to Candidacy are:
1. Classified status.
2. Approval by the department of a plan for a Thesis, Graduate Project or Artistic Performance, or approval to proceed to a Comprehensive Examination.
3. A 3.0 grade point average or higher in all work undertaken since admission to the program.

THE PROGRAM
Students are required to prepare a formal program in cooperation with the departmental Graduate Coordinator. The formal program is a statement of the academic requirements students must meet for the master’s degree

Students having met the Upper Division Writing Proficiency Exam (UDWPE) at another CSU campus may submit in writing official notification of a passing score for approval.

* Normally, the Graduate Record Examination should be taken prior to registration for graduate work at this institution. Undergraduates should take the examination in their last semester of their senior year. Application blanks for the Graduate Record Examination may be obtained from the Office of Graduate Studies or from Educational Testing Service (ETS), Box 955, Princeton, New Jersey 08540. The completed application must be submitted to the Educational Testing Service at least four weeks prior to the test date.

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1. Classified status.
2. Approval by the department of a plan for a Thesis, Graduate Project or Artistic Performance, or approval to proceed to a Comprehensive Examination.
3. A 3.0 grade point average or higher in all work undertaken since admission to the program.

THE PROGRAM
Students are required to prepare a formal program in cooperation with the departmental Graduate Coordinator. The formal program is a statement of the academic requirements students must meet for the master’s degree
and requires approval by the department and the Associate Vice President for Graduate Studies, Research and International Programs. Successful completion of all requirements on the program is prerequisite to receiving the degree. The program is prepared on a form available in the department and should be filed with the Graduate Evaluators in Graduate Evaluation Services, Graduate Studies, Research and International Programs at least a semester prior to which the students expect to receive the degree. Students may modify the program after it has been filed, provided that they have agreement with the Department Graduate Coordinator by submitting a COURSE SUBSTITUTION FORM (OGS 18) to the Graduate Evaluation Services. Modifications are subject to approval by the Associate Vice President for Graduate Studies, Research and International Programs. Modifications must be approved before the final date for change of program in the semester in which students expect to receive the degree.

The following University requirements apply to the program:

1. It must be composed of a minimum of 30 units of 400-, 500-, and 600-level work.

2. None of the courses on the program may have been used for any other degree earned in the past.

3. Not less than half and a minimum of 18 of the units in the program must be at the 500/600-level (except for the cooperative degree in Geology where 15 units of 500-level courses are acceptable).

4. No more than 9 units in combination of transfer work, extension work or work completed prior to earning a baccalaureate degree from this University.

NOTE: IN FALL 1998 THE MINIMUM NUMBER OF 500/600 LEVEL UNITS APPEARING ON A GRADUATE PROGRAM WILL INCREASE FROM 18 TO 21 UNITS.

4. No more than 9 units of transfer work or extension work may appear in the program.

5. No more than 6 units of independent study may be included in the program, and all independent study arrangements must have prior approval of the instructor of the class and of the department chair.

6. The program must terminate with a culminating experience which will consist of a Thesis, Graduate Project, Artistic Performance or Comprehensive Examination.

7. A 3.0 or higher grade point average is required for all coursework which appears on the program.

TRANSFER WORK
Credit for work performed in extension or at another accredited institution is subject to the following limitations (as well as Item 4 above):

1. Transfer of work is subject to the approval of the Graduate Advisor of the major department and the Associate Vice President for Graduate Studies, Research and International Programs. An official transcript must be submitted to the graduate evaluator in the Office of Graduate Studies for approval of the specific coursework.

2. Only grade B or better work may be transferred.

3. Work unacceptable for graduate credit in the school where it was taken is not acceptable for graduate credit at CSUN.

4. Transfer courses may not have been taken more than 7 years prior to the time of graduation. Some departments may, at their discretion, shorten this time interval.

EXTENSION AND CONCURRENT ENROLLMENT COURSES
Courses taken prior to admission to a Master’s degree program through CSUN’s Extension or Concurrent Enrollment programs are subject to the limitations that apply to graduate work taken at other institutions (see Transfer Work section above). Courses taken through Extension or Concurrent Enrollment following admission to a Master’s degree program are subject to departmental approval for use on the formal Master’s program.

CREDIT FOR WORK COMPLETED PRIOR TO EARNING THE BACCALAUREATE DEGREE
A maximum of 9 units of credit earned during a student’s final undergraduate semester at CSUN may be applied toward a Master’s degree subject to departmental approval. Requests for such credit are filed following admission to a CSUN Master’s program on a Graduate Petition Form (OGS 1) in Graduate Evaluation Services, Graduate Studies, Research and International Programs. Courses are subject to the following University requirements:

1. They are not used to satisfy the requirements for the bachelor’s degree.

2. Only coursework of “B” or better will be considered for petitioning.

3. Courses petitioned may not have been taken more than 7 years prior to the time of graduation with the Master’s degree.

4. A petition is approved by the Associate Vice President for Graduate Studies, Research and International Programs.

5. In every case, acceptance of a course on a student’s formal Master’s Program is at the discretion of the Graduate Coordinator and the Vice President of Graduate Studies.

FOREIGN LANGUAGE READING EXAMINATION
When competency in a foreign language is a departmental requirement, students may demonstrate competency in one of three ways:

1. By passing the Graduate Foreign Language Examination (Princeton Examination).

2. By passing a departmental examination. The examination is given by the Department of Foreign Languages in the fifth week of each semester. Candidates who plan to take this examination should notify the Department of Foreign Languages and Literatures early in the semester, and enroll in one unit of 399 in the appropriate language.

3. By successfully completing a Graduate Reading course, in the appropriate language. This course may be taken without prerequisite if the student has completed two semesters of the language.

THE CULMINATING EXPERIENCE
Some type of culminating experience is required of every candidate for the master’s degree. The culminating experience must be a Thesis, a Graduate Project, an Artistic Performance, or a Comprehensive Examination. The specific type of culminating experience is to be identified on the student’s program.

In certain instances and with departmental approval, where all regular coursework appearing on the Formal Master’s Program is complete, including enrollment in a culminating experience, a student may meet enrollment requirements.
through a **SPECIAL MASTER'S REGISTRATION (OGS 5)** fee payment. Permission for such enrollment must be obtained from the Graduate Coordinator and must be approved by the Associate Vice President for Graduate Studies, Research and International Programs. Inasmuch as special conditions apply to this form of registration, students are urged to make advance contact with their Graduate Coordinator and/or the Graduate Evaluators in Graduate Evaluation Services, Graduate Studies, Research and International Programs, during the last semester of regular enrollment. Special Master’s registration is subject to the “two-year time limit for completion of thesis/project.”

**THE COMPREHENSIVE EXAMINATION**

Each department that offers a Comprehensive Examination option is required to maintain University-approved guidelines for the administration of the examination. These guidelines are to be available on request to students who plan to take the examination. The following regulations apply to all departments, however:

1. Students become eligible to attempt the examination during the semester in which all other coursework on their Formal Program and other requirements for the degree have been completed. Note, however, that language and statistics requirements must be met prior to taking the examination. In addition, a **GRADUATE EVALUATION (OGS 14)** must be on file in Graduate Evaluation Services of the Graduate Studies Office.

2. Ordinarily, the examination is given about one month before the end of the semester. Arrangements to enroll and take the examination should be made with the department and Graduate Coordinator.

3. If the examination is not completed in the final semester, students **MUST REGISTER AGAIN IN THE SEMESTER IN WHICH THEY PLAN TO COMPLETE THEIR DEGREE**. These additional units may not be counted as units toward the master’s degree.

4. Students may not take an entire comprehensive examination more than twice.
   a. Students who fail the examination at the first attempt may be required to take some prescribed courses. If no such work is prescribed, students are **REQUIRED TO REGISTER FOR THE SEMESTER OR SUMMER SESSION IN WHICH THE SECOND ATTEMPT IS OFFERED.**
   b. Failure of the second attempt at the comprehensive examination disqualifies one from the master’s program in that department.
   c. For purposes of this regulation, the first attempt is defined as consisting of the complete comprehensive examination as prescribed by the department. The second attempt is defined as consisting of not more than a second examination on the entire program, or, at the discretion of the department, one supplementary examination on any part or parts of the first examination on which the student failed.
   d. Departments shall file with the Graduate Evaluators in Graduate Evaluation Services, Graduate Studies, Research an International programs office, the result of each examination.
   e. Once students have enrolled in, and/or attempted the comprehensive examination, and failed it or any part of it, they may not change to the Thesis, Graduate Project, or Artistic Performance option.

**THESIS, GRADUATE PROJECT, AND ARTISTIC PERFORMANCE**

The Thesis, Graduate Project, and Artistic Performance options are subject to the following provisions:

1. At the time that a thesis committee is formed and a topic selected, students are required to obtain signatures on the **Thesis/Graduate Project Planning Form (OGS 9)** of those faculty members agreeing to be on the student’s committee and to submit this form to the Graduate Evaluators in Graduate Evaluation Services, Graduate Studies, Research and International Programs.

2. Students may not register in more units of 598/698 than appear on the formal master’s program.

3. Students must be registered in the semester in which they expect to submit completed work, and in the case of students who plan to complete the thesis, graduate project, or artistic performance in the summer, they must be registered in at least one unit in either summer session.

4. Students may not enroll in more than three units of Thesis, Graduate Project, or Artistic Performance in their first semester of such enrollment. If at the end of that semester the advisory committee agrees that the chosen subject was unsatisfactory for a valid thesis, graduate project, or artistic performance but that the effort was at least a “B” level, the student will be given a grade of CR. Only under these conditions may the student then elect the Comprehensive Exam. The change to Comprehensive Exam requires a **Course Substitution Form (OGS 18)** to the student’s program along with a **Graduate Petition Form (OGS 1)** indicating justification for the change signed by the Graduate Coordinator in the student’s department and submitted to the Graduate Evaluators, for approval of the Vice President of Graduate Studies, Research and International Program. This justification should reflect the fact that the thesis subject was approved at the time the formal master’s program was signed.

5. Should students fail in the entire thesis, graduate project, or artistic performance, or in any part of it, they will be disqualified from the master’s program in the department and not be allowed the comprehensive examination option.

6. The thesis, graduate project, and abstract of an artistic performance should be prepared according to Guidelines for the Preparation of Theses and Graduate Projects available in the Graduate Studies, Research and International Programs. A student planning to do a thesis as part of the program should become familiar with the contents of this document in the early stages of the thesis work.

7. The theses/projects/abstracts must be completed within two years from first enrollment in 598/698. In some situations, a student is given an “SP” (Satisfactory Progress) grade for work in progress. Students are referred to regulations concerning SP grades in the earlier section of this catalog under “Definitions of Administrative Grading Symbols.”

**APPLICATION FOR THE MASTER'S DEGREE AND DIPLOMA**

Students must apply for graduation during the semester immediately preceding the semester in which they wish to have the degree conferred. Application is required of all candidates for the degree. Students may obtain an **Application for Master’s Degree and Diploma (AR9090)** for graduation from the Office of Admissions and Records or Graduate Studies, Research and International Programs and in the event that a student changes their completion date to a later time, a **Master’s Graduation and Diploma Date Change Form (OGS 6)** and a processing fee will be assessed.
TIME LIMIT FOR COMPLETION

Students must complete requirements for the degree within seven calendar years from the date they were admitted to a program, unless a lesser time is specified by the department or program committee.

Courses that were completed more than seven years prior to the date on which all requirements for the degree are completed cannot be counted to meet unit requirements unless the student can show current knowledge in the content of the outdated courses by written examination for each course in question. A maximum of nine units taken in residency at CSUN may be validated in this manner. The Departmental Graduate Coordinator must certify this competency by way of a memorandum to the Associate Vice President for Graduate Studies, Research and International Programs. Outdated courses taken at another institution MAY NOT be validated. In addition, conversion of the assigned “SP” for a thesis/project or abstract, signifying completion of culminating experience must be finalized within two years of the first enrollment in 598/698.

CHANGE OF OBJECTIVE

Continuing students in either Postbaccalaureate or Graduate status may change their objective and seek admission to a new degree program by filling out a change of objective form that can be obtained from the Office of Admissions and Records. Transfer of previously earned units to the new program must have the approval of the department to which the student applies. A request for a change of objective for a student on academic probation is also subject to the approval of the Associate Vice President for Graduate Studies, Research and International Programs.

ACADEMIC PERFORMANCE AND STUDY LOAD

Numerous requirements exist that specify the grading policies at CSUN and the academic standards and progress expected of students. These regulations are dictated by Title V of the California Administrative Code, the California State Universities and College System, and the President of California State University, Northridge.

GRADING SYSTEM

In general, Postbaccalaureate and Graduate students use the traditional A to F grading system and a non-traditional system of Credit, No Credit (CR/NC) as explained in the Regulations section of this catalog, except that:

1. Normal Grading. Credit (CR) is given for A, A-, B+, or B level scholastic performance and No Credit (NC) is given for the equivalent of B-, C+, C-, D+, D, D- or F work. Most graduate program courses may not be taken on a Credit/No Credit basis. Exceptions to this rule are Thesis/Graduate Project (598/698) or Comprehensive Examination (597/697) and certain courses in which the evaluation responsibility is shared by agencies in conjunction with faculty (e.g., field study, internship).

   The student is advised to request Credit/No Credit grading for courses taken for personal interest or enrichment which are unrelated to the degree objective outside the department or discipline of the major.

2. Incompletes. An incomplete (I) must be changed to a grade within one calendar year immediately following the end of the semester in which it was assigned. This limitation exists whether or not students maintain continuous enrollment in the University.

   If the assigned work that is required to remove the incomplete is not completed by this time, the incomplete will be computed as an F in all subsequent grade point average determinations.

3. Satisfactory Progress. The grade of Satisfactory Progress (SP) is assigned for Thesis/Graduate Project and similar courses where assigned work frequently remains to be completed at the end of the semester in which the grade is given. The SP grade must be converted to a traditional letter grade within two years. Any extension of the time limit must receive prior authorization by submitting a Graduate Petition Form (OGS 1) to the Associate Vice President for Graduate Studies, Research and International Programs for approval.

PROBATION AND DISQUALIFICATION

Students enrolled in a degree program will be placed on academic probation whenever their grade point average (GPA) falls below 3.0 in all units attempted since admission to the program. To be removed from probation, students must earn sufficient grade points in the following semester of enrollment to raise their GPA to 3.0 or above. Failure to do so will result in disqualification. (Please refer to Grading in the Regulations section of this catalog to determine grade points assigned per unit value of coursework.)

If a disqualified graduate student wishes to be considered for readmission to a Master’s program, disqualification forms must be submitted for the semester immediately following disqualification notification. Disqualification materials are mailed to students after final grades are posted. The materials are submitted through the departmental Graduate Coordinator to the Associate Vice President of Graduate Studies, Research and International Programs. Students who choose not to file readmission forms for the semester following disqualification will be required to submit both the disqualification materials and a new University application and fee in order to enroll in any future semester.

Similar provisions to those stated above apply to Postbaccalaureate, Unclassified and Postbaccalaureate, Credential students, except that the required maintenance GPA’s are 2.50 and 2.75 respectively.

REPEAT OF COURSES

With prior permission of the Graduate Coordinator and/or Department Chair and Associate Vice President of Graduate Studies, Research and International Programs, a graduate student may repeat, for the purpose of improving the grade, up to 6 units of credit in which a grade of “B-” or below, or a grade of “U,” was achieved. In these cases only the most recent grade will count. Students must submit a Course Repeat Form (OGS 25) for approval by the third week of the semester in which the course is being repeated and show proof of enrollment at that time.

MAXIMUM UNIT LOAD

Fifteen units is considered to be a maximum course load in any one semester, but in exceptional cases a graduate student may take more units with the approval of the major department. Postbaccalaureate Unclassified students must obtain approval from the Associate Vice President for Graduate Studies, Research and International Programs.

ACADEMIC LEAVE

Graduate students in good standing may take a two-semester leave of absence. Though no formal approval is required, it is suggested that students contact their major department and the Graduate Studies, Research International Programs Office for advisement.
GRADUATION WITH DISTINCTION

A student may receive the master’s degree with distinction by maintaining a 3.885 or higher grade point average on all Formal Master’s Degree program course work, and satisfying any additional criteria established by the graduate committee of the department or program offering the degree. The notation “with distinction,” is posted with the degree on the transcript and will also appear on the diploma.
CREDENTIAL PROGRAMS
## GENERAL INFORMATION

Credential Preparation Office: E 103  
Phone: (818) 677-2586  
Email: credprep@csun.edu  
Website: http://www.csun.edu/~sch_educ/cred/cred.html  

Public school teaching and service credentials in the state of California are regulated by legislative actions which are subsequently interpreted by appropriate regulatory agencies. With the guidance provided by the California Commission on Teacher Credentialing (CCTC), the University has developed programs for candidates seeking credentials to serve in a variety of positions in public schools of the State of California. All candidates seeking a credential must meet the credential requirements of the Teacher Licensing Act of 1970 as amended.

California State University, Northridge is committed to the concept that continuous screening and evaluation are necessary to ensure that candidates who complete a credential program are well prepared to be effective members of the teaching profession. Thus candidates may expect to be evaluated on possession of basic skills, personal qualifications, and performance factors in addition to completion of required courses.

In evaluating these factors the College of Education may determine that a particular candidate does not possess these factors in sufficient quality to permit the candidate to continue in the program. Unsuccessful student teaching assignments will certainly cause the College to question the ability of a candidate. There exists in the College a Selection and Admission Committee and a procedure by which a review of the candidate’s qualifications can be initiated and a decision made concerning involuntary withdrawal of the candidate. All rights of candidates are protected including the right to examine all documentation presented in support of withdrawal and to confront witnesses supporting the withdrawal. The decision of this committee is final within the College. (Details are available in the Credential Preparation Office.)

## CANDIDATES FOR ALL CREDENTIALS MUST MEET LEGAL REQUIREMENTS IN EFFECT AT THE TIME OF APPLICATION FOR THE CREDENTIAL REGARDLESS OF WHEN THE PROGRAM WAS STARTED.

## COURSE TIME LIMITS

Coursework over ten years old will be considered expired unless a lesser time is specified by the academic department. Professional education courses completed more than ten years prior to the date of application for a credential cannot be counted to meet credential requirements.

## CREDENTIALS AVAILABLE AT CSUN

Three basic teaching credentials are available: the Multiple Subject, the Single Subject, and the Preliminary Special Education credential. The Multiple Subject credential authorizes the holder to teach K-12 in any self-contained classroom, such as those commonly found in elementary schools in California. The Single Subject credential authorizes the holder to teach K-12 in a departmentalized classroom, such as those commonly found in a secondary school in California. The Preliminary Special Education program authorizes the holder to teach K-12 exceptional children in a school setting in the following disability areas: deaf and hard of hearing, early childhood, mild/moderate and moderate/severe.

Beyond the basic credentials, specialist credential programs, approved by the California Commission on Teacher Credentialing, are available in the following areas: reading and language arts, and resource specialist.

In addition, service credential programs have also been approved by the CCTC in the areas of administration, health service (school nurse), communicative disorders (language, speech and hearing services, audiology, and aphasia), school counseling, and school psychology.

## CROSSCULTURAL, LANGUAGE AND ACADEMIC DEVELOPMENT, AND BILINGUAL, CROSSCULTURAL, LANGUAGE AND ACADEMIC DEVELOPMENT

Crosscultural, Language and Academic Development (CLAD), and Bilingual, Crosscultural, Language and
Academic Development (BCLAD) options of multiple subject and single subject credentials are also available. These programs are basic entry level credential programs with a bilingual BCLAD and a non-bilingual authorization CLAD replacing the Bilingual Emphasis programs and the Language Development Specialist program. Holders of these credentials are authorized to deliver English language development and specially designed instruction for academic content to limited English proficient students from all languages. In addition, BCLAD holders are authorized to provide content instruction in the language of emphasis. CLAD candidates need not be bilingual themselves. Requirements for the CLAD and BCLAD emphases can be found in the program requirements within this section.

CREDENTIAL APPLICATION
California State University, Northridge cannot recommend a candidate for a credential unless the candidate has admission to a specific program and has successfully completed the program.

CONVICTIO RECORDS
As a part of the admission process, candidates are advised that CONVICTION RECORDS may prevent a candidate from obtaining a credential. Although a wide variety of convictions will not prevent the issuance of a credential, the Education Code does stipulate that certain conviction records will mandate the denial of a teaching document. Candidates with conviction records are advised to consult with either the Director or Assistant Director of the Credential Preparation Office regarding the nature of the conviction. Candidates with serious problems will be required to secure a Certificate of Clearance from the Commission on Teacher Credentialing prior to admission.

ENROLLMENT IN REQUIRED COURSES IN THE PROFESSIONAL EDUCATION SEQUENCE IS LIMITED TO PERSONS WHO HAVE BEEN ADMITTED TO THE TEACHER EDUCATION PROGRAM.

ADVISEMENT MEETINGS
Advisement meetings concerning the basic programs are held monthly. Please consult with the Credential Preparation Office for the schedule of these sessions.

MULTIPLE SUBJECT, SINGLE SUBJECT AND PRELIMINARY SPECIAL EDUCATION CREDENTIAL

ADMISSION
To secure admission, the candidate must submit an application packet containing:

1. The Application to the Credential Program. The application will be used to establish a file for the candidates.

2. Recommendations from two persons outside the candidate’s family who are knowledgeable about the candidate in a professional relationship. These may be from teachers or administrators in the schools or university faculty.

3. Original transcripts from all institutions of higher education attended including California State University, Northridge. These transcripts are required independently of other transcripts which may be required for admission to the University. The grade point average cannot be computed without these transcripts. In addition, after receiving admission, candidates must submit transcripts of all coursework taken at other institutions immediately after the end of each semester’s coursework. A candidate for admission to a credential program must have a G.P.A. that falls within the top 50% of the G.P.A. range for his/her major field. This ranges between 2.5 and 2.9 depending on the subject. Applicants who have completed at least 30 semester units at CSUN will have all CSUN units counted in the computation and use a Northridge average. Applicants who have not completed 30 semester units at CSUN will have their entire collegiate record computed and will need to meet a systemwide average in their field. At the time of printing, this process is currently under review. Please check with the Credential Office for revised requirements.

After admission candidates must maintain an overall G.P.A. of 2.75 for all coursework taken after admission and must maintain a 3.00 G.P.A. for all professional education coursework. In addition, academic departments may have a G.P.A. requirement in the subject area for departmental clearance for student teaching.

4. Proof of freedom from tuberculosis.

5. A Statement of Objectives describing reasons for desiring entry into the teaching profession.

6. A permanent verification card showing passage of the California Basic Educational Skills Test (CBEST) or verification that CBEST has been taken.

7. Verification of completion of early field experience. Consult the Credential Preparation Office for a list of acceptable experiences.

8. Application fee. Please consult with the Credential Preparation Office for amount.

9. Certificate of Clearance: Application (41 CIC) or Emergency Credential or basic teaching experience. Submit a copy of your emergency or substitute credential. A copy of an expired document is also satisfactory. Submit a copy of valid basic teaching credential for candidates who possess a Multiple or Single Subject Credential.

or
Submit completed form 41-CIC (blue) with a CERTIFIED CHECK OR MONEY ORDER for $30.00 made payable to the Commission on Teacher Credentialing. (The thirty dollars will apply toward your initial credential fee. For this reason, the Credential Preparation Office will retain the Certificate.)

and

VERIFICATION OF FINGERPRINTS
Submit a copy of the Livescan Service form completed by the applicant as well as the Livescan operator. Livescan fingerprinting can be completed at the CSUN Public Safety Office located at 9757 Zelzah Avenue, Building #14, in the lobby. Call the Office (818) 677-2113 to determine current fees and times for fingerprinting.

Students submitting fingerprint cards should contact the Credential Preparation Office for procedures. When the file has been completed, the candidate will be reviewed by faculty members of the College of Education. The candidate will be evaluated based on the basis of academic achievement, commitment to teaching and ability to communicate. When the Faculty Committee reaches a decision regarding the admission of the candidate, the candidate will be notified in writing by the Credential Preparation Office. If admitted, the candidate will be issued a letter indicating admission to the teacher
education program. Regulations permit the University to admit a candidate on the basis of some exceptional qualification possessed by the candidate. If you are denied admission on a regular basis, you will be given information concerning admission on an exceptional basis.

As part of the admission process, an evaluation of the candidate’s previous coursework will be made automatically and mailed to the candidate along with the admission letter.

**MULTIPLE SUBJECT CREDENTIAL PROGRAM COURSE & EXAMINATION REQUIREMENTS (Traditional Program)**

**A. REQUIRED PRIOR TO ADMISSION:**

1. Verification of basic literacy in reading, writing and mathematics as evidenced by passage of the California Basic Educational Skills Test (CBEST). Admission may be granted prior to passage of the exam but passage is required prior to application for student teaching.

2. Six units of professional preparation courses. These courses require 20 hours of participation/observation in a school. (At least one assignment must be in a limited English proficient [LEP] classroom for CLAD program or one in a bilingual classroom for BCLAD.)

   - EPC 314 Psychological Foundations K-12 ..................3
     (May be taken prior to admission)
   - or
     - (314BL for BCLAD-Spanish) ...............................3
   - EED 520 Teaching Reading in the Elementary School ...............3
     or
     - (520BL for BCLAD - Spanish) ..............................3
   - or
     - (521BL for BCLAD-Spanish) .............................6

3. Verification of subject matter knowledge either by examination or by completion of an approved subject matter program. At CSUN the approved program to waive the examination is the Liberal Studies major. (Persons may receive permission from the Liberal Studies Office to take certain courses concurrently with student teaching.) Candidates choosing to pass a Commission-required examination which is the Praxis - Multiple Subjects Assessment for Teachers [MSAT]) rather than to complete an approved subject matter program must pass this examination prior to student teaching.

4. Verification of writing proficiency (may be met by course or exam). The most commonly used courses are ENG 305 or ENG 406 or COMS 321. The Upper Division Writing Proficiency Exam taken at CSUN with a score of 10 or better is also acceptable. .................................................0-3 units

5. Completion of Math 210 Basic Number Concepts .............3
   (May be taken prior to admission.) Passage of ELM (Elementary Level Math) exam or exemption from ELM is required by the university prior to enrollment in any math course.

6. Residency - Candidates must have been admitted to the program for one semester prior to student teaching and have completed 12 semester units at CSUN.

7. GPA - must maintain 2.75 overall since admission and 3.0 in education courses. A grade of “C or better” is required in all courses.

8. For BCLAD program only: passage of BCLAD test #6 in language of emphasis prior to application for student teaching.

**C. ADDITIONAL REQUIREMENTS FOR THE PRELIMINARY CREDENTIAL:** The following courses may be completed prior to or with student teaching:

9. ELPS 303 Education in American Society ..................3
   Restricted to persons formally admitted to the credential program and requires 20 hours of participation/observation in a school.

10. KIN 470 Physical Education for Children.................3

11. Multicultural requirement - One course from Category A. Consult the Credential Preparation Office for a list of acceptable courses. (May be taken prior to admission) ....3

12. EED 570 ESL Instruction in Bilingual and Multilingual Classrooms ..........3
   Restricted to persons formally admitted to the credential Program and during TTR period limited to student teachers. Must be taken concurrently with EED 571ST if not before.

13. A baccalaureate degree or higher degree, except in professional education, from an approved institution.

   (May be taken prior to admission by course or exam.)
   Consult the Credential Preparation Office for details.

15. Passage of Reading Instruction Competence Assessment (RICA). Consult the Credential Preparation Office for details.

16. For CLAD program only: experience studying a second language. Consult the Credential Preparation Office for details............................0-6

**D. STUDENT TEACHING AND METHODS:** Applications for student teaching must be submitted the semester prior to the one in which the student teaching is to be done. Applications for spring are accepted from 9/1 through 10/15 and for fall between 2/1 and 3/15. Contact the Credential Preparation Office for applications. As part of the application, candidates must obtain from the Commission on Teacher Credentialing a Certificate of Clearance from criminal convictions if not already submitted. Verification of passage of all appropriate exams and/or department clearance is required prior to acceptance of your student teaching application. It is important because of limited testing dates that you complete all required exams as soon as possible to avoid delay in student teaching.

17. EED 570M Elementary School Curriculum ..............3
   or
   - (570MBL for BCLAD-Spanish) ............................3
   - EED 571ST Student Teaching in the Elementary School .........6
   or
   - (571BL for BCLAD-Spanish) .................................6
   (These courses must be taken concurrently.)

18. EED 580M Elementary School Curriculum ..............3
   or
   - (580MBL for BCLAD-Spanish) ............................3
   - EED 581ST Student Teaching in the Elementary School .........6
   or
   - (521BL for BCLAD - Spanish) ..............................6
   (These courses must be taken concurrently.)

Performance in student teaching must be a “B” grade to receive “credit” and one of the assignments must be in a LEP classroom for CLAD credential or in bilingual classroom for BCLAD.

**E. ACADEMIC STANDARD FOR COMPLETION OF THE PROGRAM:**

G.P.A. - must maintain 2.75 overall since admission and 3.0 in
all education courses. A grade of “C or better” is required in all courses. *NOTE: This information does not include any courses which may be required for completion of the approved subject matter program.

Note that for the CLAD or BCLAD credential one of the participation/observation assignments completed prior to student teaching, as well as one of the two student teaching assignments, must be in an elementary classroom where English learners are receiving ESL and specially designed academic instruction in addition to instruction in their primary language. If you seek employments as a teacher assistant or as an emergency teacher, be cognizant that you must be assigned to such a classroom in order to fulfill the CLAD or BCLAD credential requirements. Should your TA or teaching assignment be in a classroom where ESL and specially designed academic instruction and primary language instruction are not provided, you would need to be released from your job so that we could place you in the required setting.

SUGGESTED MULTIPLE SUBJECT COURSEWORK SEQUENCE

The following sequence is suggested for persons who wish to complete this program in the minimum time—three semesters. Note that there are prerequisites for student teaching and that student teaching and methods require two assignments covering two separate semesters. The candidate may choose to take longer than the program shown here.

**Semester One**
- EPC 314 Psychological Foundations K-12 ..............3
- EED 520 Teaching Reading in the Elementary School ...3
- MATH 210 Basic Number Concepts .....................3
- EED 570 ESL Instruction in Bilingual and Multicultural Classrooms........ 3
- Writing Proficiency (course or examination) .............0-3

**Semester Two**
- EED 570M Elementary School Curriculum ..............3
- EED 571ST Student Teaching in the Elementary School ...6
- Multi-Cultural requirement - Category A ....................3

**Semester Three**
- EED 580M Elementary School Curriculum ..............3
- EED 581ST Student Teaching in the Elementary School ...6
- KIN 470 Physical Education for Children .................3
- ELPS 303 Education in American Society .................3

**ALTERNATIVE METHODS FOR OBTAINING A MULTIPLE SUBJECT CREDENTIAL**

In addition to the traditional credential program, alternative methods exist through CSUN for students to obtain the Multiple Subject Credential.

**A. Intern Program** - The elementary Teacher Internship Credential Program is a postbaccalaureate teacher credential program that combines employment with part-time advanced study. The program is designed to be completed within two years. Additional coursework may be required to fulfill specialization requirements. Verification of subject matter competency is required. For further information, please contact the Credential Preparation Office.

**B. Accelerated Collaborative Teacher Preparation Program** - The Accelerated Collaborative Teacher Preparation Program (ACT) leads to a Preliminary Multiple Subject Credential. This is a one year program designed for teacher candidates who have completed a bachelor’s degree and are eligible for admission to the CSUN credential program. Totaling 36 units, the program is comprised of three modules: a common core designed for all credential candidates; coursework in an appropriate specialization (elementary, secondary, special education) credential area; and field experiences with exemplary teachers.

**C. Freshman Integrated Teacher Education Program** (pending final approval) - The Freshman Integrated Teacher Education Program (ITEP) is an undergraduate program of teacher preparation designed for freshmen who are prepared to enter college-level mathematics and writing classes. The program of 138 units makes it possible for a student to earn a Bachelor of Arts Degree in Liberal Studies and a Multiple Subject Credential (Crosscultural, Language and Academic Development Emphasis) in four years, including two summers. Special features of the program include cohorted classes, early and ongoing field experiences, spiraling and circular curriculum, the development from learners to teachers as learners, cross-disciplinary integration, and a focus on diversity and the urban community. Credential program requirements can be found in the Credential Section of this catalog.

**SINGLE SUBJECT CREDENTIAL PROGRAM COURSE & EXAMINATION REQUIREMENTS (Traditional Program)**

Candidates seeking a basic teaching credential for secondary school should complete the requirements for the Single Subject Credential.

**A. REQUIRED PRIOR TO ADMISSION:** California Basic Educational Skills Test (CBEST). Passage of this exam verifies basic literacy in reading, writing and mathematics.

**B. REQUIRED PRIOR TO STUDENT TEACHING:**

The following courses must be completed or in progress during semester of application for student teaching:

1. Six units of professional preparation courses. These courses require 20 hours of participation/observation in a school.

   **EPC 314 Psychological Foundations K-12...............3**
   **(May be taken prior to admission)**
   **or (314BL for BCLAD-Spanish) .........................3**
   **SED 511 Fundamentals of Secondary Education in Multiethnic Secondary Schools....................3**

2. Verification of subject matter knowledge. (May be completed prior to admission to the credential program.) CSUN has approval for 18 subject matter programs in the 11 Single Subject areas defined by the Teacher Licensing Act. Candidates must complete an approved program in its entirety and/or pass the appropriate Praxis/SSAT examinations, as determined by the department. Consult the Credential Preparation Office for a list of approved programs and approved subject matter programs.

**Subject Category (Departments with Approved Programs)**

<table>
<thead>
<tr>
<th>Art (Art)</th>
<th>Business (Business)</th>
<th>Mathematics (Mathematics)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Economics (FES)</td>
<td>English (English)</td>
<td>Music (Music)</td>
</tr>
<tr>
<td>Speech Communication</td>
<td>Physical Edu. (Kinesiology)</td>
<td>Science (Biology)</td>
</tr>
<tr>
<td>Theatre</td>
<td>Foreign Language (French)</td>
<td>Chemistry</td>
</tr>
<tr>
<td>German</td>
<td>Geological Sciences</td>
<td>Physics</td>
</tr>
<tr>
<td>Spanish</td>
<td>Health Science (H. Sci.)</td>
<td>Social Science (History)</td>
</tr>
</tbody>
</table>

3. Departmental Clearance for student teaching. Regardless of completion of an approved subject matter program or passage of the appropriate examination candidates must receive a clearance from the department of the subject area in which they wish to student teach.

4. Verification of writing proficiency (may be met by course or
required exams as soon as possible to avoid delay in student
teaching.

ADDITIONAL REQUIREMENTS OF CLAD/BCLAD PROGRAM:
CREDENTIAL:
The following courses may be completed prior to admission to the program. A grade of "C or better" is required in all courses.

1. Credential: A knowledge of the Constitution of the United States. (May be taken prior to admission.)
2. Baccalaureate Degree or higher degree, except in professional education, from approved institution.
3. Knowledge of the target language for BCLAD.
4. For BCLAD program only: passage of BCLAD test #6 in language of emphasis prior to application for student teaching.

C. ADDITIONAL REQUIREMENTS FOR THE PRELIMINARY CREDENTIAL: The following courses may be completed prior to admission to the program. **Requires 20 hours of participation/observation.

8. Completion of professional preparation courses:
   SED 525 Methods in Single Subject Area* ..................................3
   SED 520 Literacy in Multiethnic Schools**.................................3
   ELPS 303 Education in American Society**..............................3
   *Recommended prior to first student teaching, but no later than with first assignment.
   **Requires 20 hours of participation/observation.

9. Multicultural requirement - One course from Category A. Consult the Credential Preparation Office for a list of acceptable courses (May be taken prior to admission.)

10. Baccalaureate Degree or higher degree, except in professional education, from approved institution.

11. Knowledge of the Constitution of the United States. (May be taken prior to admission by course or exam.) Consult the Credential Preparation Office for details.

ADDITIONAL REQUIREMENTS OF CLAD/BCLAD PROGRAM:
12. SED 525ESL Methods of Teaching English as a Second Language.........................................................3

13. For CLAD program only: experience studying a second language. Consult with the Credential preparation Office for details.

D. STUDENT TEACHING: Applications for student teaching must be submitted the semester prior to the one in which the student teaching is to be done. Applications for spring are accepted from 9/1 through 10/15 and for fall between 2/1 and 3/15. Contact the Credential Preparation Office for applications. As part of the application, obtain from the Commission on Teacher Credentialing a certificate of Clearance from criminal convictions if not already submitted. Verification of passage of all appropriate exams and department clearance is required prior to acceptance of your student teaching application. It is important because of limited testing dates that you complete all required exams as soon as possible to avoid delay in student teaching.

15. SED 555A,B Student Teaching (or 555A,C for CLAD or BCLAD program), is normally taken in two different semesters of six units each.........................................................12
   Permission to take only one semester of 12 units may be granted by the Coordinator, Secondary Student Teaching. Performance in student teaching must be at a "B" level to receive "credit" and part of one assignment must be teaching ESL for CLAD credential or ESL and instruction in target language for BCLAD.

TOTAL........................................................................................33-39**

E. ACADEMIC STANDARD FOR COMPLETION OF THE PROGRAM:
G.P.A. - Must maintain 2.75 overall since admission and 3.0 in all education courses. A grade of "C or better" is required in all courses.

**Note: This total does not include any courses which may be required for completion of an approved subject matter program.

ADAPTED PHYSICAL EDUCATION
Persons who are legally authorized to teach physical education are eligible to seek an adapted physical education credential for teaching physical education to students with special needs. Consult the Adapted Physical Education Curriculum Coordinator for additional course requirements.

SUGGESTED SINGLE SUBJECT COURSEWORK SEQUENCE
The following sequence is for persons who wish to complete this program in three semesters. Note that it is possible to complete a double student teaching assignment with the permission of the Secondary Student Teaching Office. That could result in completing the program in two semesters if all prerequisites are met in the first semester. Also note that the sequence does not include any courses which may be required for completion of an approved subject matter program. The candidate may also choose to take longer than the program shown here.

Semester One
EPC 314 Psychological Foundations K-12.................................3
SED 511 Fundamentals of Secondary Education in Multiethnic Secondary Schools..........................3
Writing Proficiency (course or exam)...........................................0-3
SED 525 Methods in Single Subject area .....................................3
SED 520 Literacy in Multiethnic Secondary Schools..................3
Semester Two
SED 555A Student Teaching in the Secondary School..............6
Multi-Cultural requirement - Category A.................................3
Semester Three
SED 555B Student Teaching in the Secondary School..............6
ELPS 303 Education in American Society.................................3

ALTERNATIVE METHODS FOR OBTAINING A SINGLE SUBJECT CREDENTIAL
In addition to the traditional credential program, alternative methods exist through CSUN for students to obtain the Single Subject Credential.

A. INTERNSHIP PROGRAM - The Single Subject Internship program leading to a CLAD/BCLAD Credential. This program is designed for teacher candidates who are teaching full-time in a middle or high school, have completed a bachelor’s degree in a single subject field, and are eligible for admission to the CSUN credential program. Totaling 33 units, the professional program is designed to be completed within two years. Candidates are enrolled in the program on a part-time basis with courses offered in the late afternoons and evenings. Additional coursework may be required to fulfill specialization requirements. Verification of subject matter competency is required. For further information, please contact the Credential Preparation Office.

B. ACCELERATED COLLABORATIVE TEACHER PREPARATION PROGRAM - The Accelerated Collaborative Teacher Preparation Program (ACT) leads to a Preliminary Single Subject Credential. This is a one year program designed for teacher candidates who have completed a bachelor’s degree and are eligible for admission to the CSUN credential
program. Totaling 36 units, the program is comprised of three modules: a common core designed for all credential candidates; coursework in an appropriate specialization (elementary, secondary, special education) credential area; and field experiences with exemplary teachers.

**ADDITIONAL REQUIREMENTS FOR THE PROFESSIONAL CLEAR CREDENTIAL BOTH MULTIPLE AND SINGLE SUBJECT**

The Professional Clear credential requires thirty (30) post-baccalaureate units, some of which are specific courses and others which are approved electives. Any portion of the Preliminary Credential program completed after the bachelor’s degree counts toward these 30 units. The Credential Preparation Office must approve all courses used for the thirty units.

**SPECIFIC CLEAR CREDENTIAL REQUIREMENTS**

1. Thirty (30) units of coursework to be completed within five years from date of issuance of the preliminary credential. (All approved coursework completed after receipt of the baccalaureate may be applied to this requirement.)
2. HSCI 435 for Multiple Subject candidates or HSCI 436 for Single Subject candidates..........................3
3. SPED 508 Special Education Training for Teachers (4) or ART 480 Art of Exceptional Pupils (3) (Available only for candidates with a Single Subject Credential in Art)...........3-4
4. Multi-Cultural requirement - One course from Category B and one course from Category C. Consult the Credential Preparation Office for a list of acceptable courses. (May be taken prior to admission).............................................6
5. Language Development & Disorders - MULTIPLE SUBJECT ONLY - Candidates for the clear credential must complete Comm Dis 361 Language Development in Children. (May be taken prior to admission)...........................................................................3
6. Computer Education - Candidates for the clear must complete EED 613, SED 514, MUS 191 and 191L, or KIN 402 and 402L...........................................................................3
7. Grade Point Average - Candidates must have a GPA of 2.75 overall and 3.0 in all education courses.

A grade of “C or better” is required in all courses.

Note: The initial credential may be either a preliminary or a clear credential. Candidates should apply for whichever one they qualify for first.

**PRELIMINARY (LEVEL I) SPECIAL EDUCATION CREDENTIAL PROGRAM COURSE AND EXAMINATION REQUIREMENTS**

Candidates seeking to teach only exceptional children should complete the requirements for the Preliminary Special Education Credential.

**A. GENERAL PROGRAM REQUIREMENTS FOR THE TRADITIONAL DEAF AND HARD OF HEARING PROGRAM**

1. Passage of California Basic Educational Skills Test (CBEST). **Prerequisite to Section D below.** This may be waived for prelingually deaf candidates. See Credential Preparation Office.
2. Verification of subject matter knowledge either by examination or by completion of an approved subject matter program. For the elementary option pass Multiple Subject Assessment for Teachers (MSAT) or complete the Liberal Studies major. For the secondary option pass the PRAXIS and SSAT examinations or complete the approved subject matter program in your field. **Prerequisite to Section D below.**
3. Verification of writing proficiency (may be met by 0-6 units course or exam). The most commonly used courses are ENG 305, 406 or COMS 321. (Passage of CBEST does not meet this requirement.) The Upper Division Writing Proficiency Exam at CSUN with a score of 10 or better is also acceptable. **Prerequisite to Section D below.**
4. Knowledge of the Constitution of the United States. **0-3 units** (May be met by course or exam.) Consult the Credential Preparation Office for details.
5. Passage of the Reading Instruction Competence Assessment (RIC-A) exam
6. A baccalaureate degree or higher degree except in professional education from an approved institution which should be earned prior to enrolling in 600 level courses.

**B. GENERIC REQUIREMENTS**

(Pre or co-requisite to specialization courses).

7. Multicultural requirement (One course from Category A, B or, C). Consult the Credential Preparation Office for a list of acceptable classes.
8. SPED 400 Introduction to Special Education or SPED 508 Special Education Training for Teachers ...3-4
9. SPED 401A Instruction in Special Education: Assessment and Methods .........................3
10. SPED 402A Behavioral Assessment and Positive Behavior Support ...........................3
11. SPED 520 Literacy in Multicultural Secondary Schools. . . . . . . . . . 3
12. SPED 532 Curriculum and Methods for Working with Very Young Children with Disabilities 3

**C. READING REQUIREMENT**

13. EED 520 Teaching Reading in the Elementary School ...............................................................3
or
SED 520 Literacy in Multicultural Secondary Schools ..........................3
(Choose one appropriate to your methods option). Prerequisite to section D.

**D. GENERAL EDUCATION METHODS COURSES**

(Choose one option) Applications for clearance to enroll in elementary education methods courses must be submitted the semester prior to the one in which the methods courses are to be done. Applications are accepted 9/1 through 10/15 for spring and 2/1 through 3/15 for fall. Contact the Credential Preparation Office for applications. Verification of passage of all prerequisite exams and courses (items 1, 2, 3 and 13) is required prior to acceptance of your application.

14. Elementary Option (restricted - see above)

EED 570ESL Instruction Instruction Bilingual and Multilingual Classrooms ..........................3
EED 570M Elementary School Curriculum.....................................................3
EED 570M Elementary School Curriculum.....................................................3
EED 580M Elementary School Curriculum .....................................................3
**or Secondary Option**
SED 525ESL ESL Methods of Teaching English as Second Language ..........................3
SED 511 Fundamentals of Secondary Education in Multicultural Secondary Schools ........3
E. DEAF AND HARD OF HEARING SPECIALIZATION COURSES

Required prior to student teaching (For sequence, pre and corequisites see advisor)

15. SPED 504D Theoretical and Empirical Bases of Special Education .................3
16. SPED 566DHH Curriculum and Instruction in Special Education .................3
17. SPED 561D Teaching Reading to the Deaf and Hard of Hearing Pupils ..............3
18. SPED 562 Total Communication ........................................0-3
19. SPED 560 English Language Development DHH .........................3
20. SPED 565 Fundamentals of Teaching English to the Deaf ..........................3 units
21. SPED 567 Audiology for Teachers of Deaf and Hard of Hearing (CD 345 is a pre-requisite) ....3

F. STUDENT TEACHING IN SPECIAL EDUCATION

22. SPED 580DHH Specialist Fieldwork with Deaf and Hard of Hearing Pupils ...........6

(Prerequisite: Passing Score on the ASLPI-see below)

Clearance to do the student teaching assignment in the Deaf and Hard of Hearing specialization is also dependent upon successfully passing the American Sign Language Proficiency Interview which is generally scheduled once each semester. The interview is conducted in ASL only and must be passed at least one semester prior to student teaching. Please contact the Department of Special Education for dates and fees.

Student teaching leading to a Specialist Credential requires 250 hours or 10 weeks whichever is greater of supervised teaching in the candidate’s area of specialization in sites approved by the Department of Special Education. These sites must be consistent with department philosophy in the area of Deaf Education. Submit a Statement of Intent to Student Teach to the Credential Preparation Office between 9/1 through 10/15 for spring semester student teaching, and 2/1 through 3/15 for the following fall semester. Candidates must have maintained a 2.75 cumulative grade point average for all course work attempted subsequent to admission and a 3.0 grade point average in all professional education courses. A grade of "C" or better is required in all courses.

NOTE: This program also requires completion of minimum of 30 hours fieldwork in non-special education classrooms. This may be done independently or in conjunction with general education courses.

A. GENERAL PROGRAM REQUIREMENTS FOR THE MILD/MODERATE AND MODERATE/SEVERE PROGRAMS

1. Passage of California Basic Educational Skills Test (CBEST). Prerequisite to Section D below.
2. Verification of subject matter knowledge either by examination or by completion of an approved subject matter program. For the elementary option pass Multiple Subject Assessment for Teachers (MSAT) or complete the Liberal Studies major. For the secondary option pass the PRAXIS and SSAT examinations or complete the approved subject matter program in your field. Prerequisite to Section D below.
3. Verification of writing proficiency ........................................0-3 (may be met by course or exam). The most commonly used courses are ENG 305, 406 or COMS 321. (Passage of CBEST does not meet this requirement.) The Upper Division Writing Proficiency Exam at CSUN with a score of 10 or better is also acceptable. Prerequisite to Section D below.
4. Knowledge of the Constitution of the United States..............0-3 (May be met by course or exam.) Consult the Credential Preparation Office for details.
5. A baccalaureate degree or higher degree except in professional education from an approved institution which should be earned prior to enrolling in 600 level courses.
6. Passage of the Reading Instruction Competence Assessment (RICA)

B. GENERIC REQUIREMENTS (Admission is required prior to enrolling in any professional education courses.)

7. Multicultural requirement.................................................3
   (One course from Category A, B or, C). Consult the Credential Preparation Office for a list of acceptable classes.

8. SPED 400 Introduction to Special Education or
   SPED 508 Special Education Training for Teachers ....3-4
9. SPED 401A Instruction in Special Education: Assessment and Methods ..........3
10. SPED 402A Behavioral Assessment and Positive Behavior Support ..................3
11. SPED 595AA and EED 595AA Language Instruction for Diverse Learners ...........4
   or
   SPED 500A/EED 570ESL ......................................................6
   or
   SPED 500A/SED 525ESL ......................................................6
   (for candidates who do not possess a teaching credential)
   or
   SPED 500A (for candidates who hold a Multiple Subject or Single Subject Credential)
12. SPED 503 Guidance in Special Education: Team Collaboration and Working with Families ...3

C. READING REQUIREMENT

13. EED 520 Teaching Reading in the Elementary School or
    SED 520 Literacy in Multiethnic Secondary Schools.................3
    (Choose one appropriate to your methods option). Prerequisite to Section D below.

D. GENERAL EDUCATION METHODS COURSES (Choose one option) Applications for clearance to enroll in elementary education methods courses must be submitted the semester prior to the one in which the methods courses are to be done. Applications are accepted 9/1 through 10/15 for spring and 2/1 through 3/15 for fall. Contact the Credential Preparation Office for applications. Verification of passage of all prerequisite exams and courses (items 1, 2, 3 and 13) is required prior to acceptance of your application.

14. Elementary Option (restricted - see above)
   EED 570M Elementary School Curriculum .........................3
   or
   SED 525 Methods in Single Subject Area .................3

15. Secondary Option
   SED 511 Fundamentals of Secondary Education in Multiethnic Secondary Schools ........3
   SED 525 Methods in Single Subject Area .................3

E. MILD MODERATE/MODERATE SEVERE SPECIALIZATION COURSES. Required after completing Elementary or Secondary Methods and prior to student teaching (choose one option)
15. Mild/Moderate Option

SPED 504MM Theoretical and Empirical Bases of Education for Learners with Mild/Moderate Disabilities ............... 3

and

SPED 505MM Curriculum and Instruction for Learners with Mild/Moderate Disabilities ............... 3

or

Moderate/Severe Option

SPED 504MS Theoretical and Empirical Bases of Education for Learners with Moderate/Severe Disabilities ............... 3

and

SPED 505MS Curriculum and Instruction for Learners with Moderate/Severe Disabilities ............... 3

F. STUDENT TEACHING IN SPECIAL EDUCATION

SPED 570MM Specialist Fieldwork Analysis in Education of Learners with Mild/Moderate Disabilities ........................................ 3

and

SPED 580MM Specialist Fieldwork with Learners who have Mild/Moderate Disabilities ............... 6

or

SPED 570MS Specialist Fieldwork Analysis in Education of Learners with Moderate/Severe Disabilities ........................................ 3

3

and

SPED 580MS Specialist Fieldwork with Learners who have Moderate/Severe Disabilities ............... 6

Student teaching consists of 250 hours or 10 weeks - whichever is greater of supervised fieldwork in the candidate’s area of specialization. Candidates admitted Spring, 1998 and thereafter will not be able to complete requirements for SPED 570 and SPED 580 solely at segregated sites. Candidates working at segregated sites must obtain additional experiences in inclusive and/or integrated settings in order to meet program competencies. The length of these experiences will be determined on an individual basis.

Submit a Statement of Intent to Student Teach to the Credential Preparation Office between 9/1 through 10/15 for Spring semester student teaching, and 2/1 through 3/15 for the following Fall semester. Summer school student teaching is available only by special arrangement. Contact the Teacher Education Coordinator in the Department of Special Education for information regarding summer assignments. Candidates must have maintained a 2.75 cumulative grade point average for all course work attempted subsequent to admission and a 3.0 grade point average in all professional education courses. A grade of "C or better" is required in all courses.

NOTE: This program also requires completion of a minimum of 30 hours fieldwork in non-special education classrooms. This may be done independently or in conjunction with general education courses.

ALTERNATIVE METHODS FOR OBTAINING A SPECIAL EDUCATION CREDENTIAL

In addition to the traditional credential program, a number of alternative methods exist through CSUN for students to obtain the Single Subject Credential.

A. INTERN PROGRAM IN MILD/MODERATE, MODERATE/SEVERE, DEAF AND HARD OF HEARING

This two year program combines full-time employment as a public school teacher with part-time advanced study and leads to California teaching credential. The program includes all requirements of the regular program while being conducted in a cohort group setting. Students receive extensive classroom support and mentorship throughout the program by university and district personnel.

B. ACCELERATED COLLABORATIVE TEACHER PREPARATION PROGRAM: The Accelerated Collaborative Teacher Preparation Program (ACT) leads to a Preliminary Level I Education Specialist Credential. This is a one year program designed for teacher candidates who have completed a bachelor’s degree and are eligible for admission to the CSUN credential program. Totaling 36 units, the program is comprised of three modules: a common core designed for all credential candidates; coursework in an appropriate specialization (elementary, secondary, special education) credential area; and field experiences with exemplary teachers.

C. FRESHMAN INTEGRATED TEACHER EDUCATION PROGRAM (Pending final approval) - The Freshman Integrated Teacher Education Program (ITEP) is an undergraduate program of teacher preparation designed for freshmen who are prepared to enter college-level mathematics and writing classes. The program of 144 units makes it possible for a student to earn a Bachelor of Arts Degree in Liberal Studies and an Education Specialist Credential (Mild/Moderate Disabilities) in four years, including two summers. Special features of the program include cohorted classes, early and ongoing field experiences, spiraling and circular curriculum, the development from learners to teachers as learners, cross-disciplinary integration, and a focus on diversity and the urban community. Credential program requirements can be found in the Credential Section of this catalog.

EARLY CHILDHOOD

The Early Childhood Special Education Emphasis Program is designated to prepare special educators to work with infants, toddlers and preschool age children, birth through pre-kindergarten age who have disabilities and with their families.

Training will include participating on interdisciplinary and transdisciplinary teams, providing family-focused services, working with families from diverse backgrounds, promoting family-professional collaboration, providing ecologically-valid assessment and intervention, providing developmentally appropriate instruction, serving very young children in natural environments, and working with very young children with severe and multiple disabilities.

Essential professional development opportunities will be provided through matching candidates with mentors and two supervised fieldwork experiences in model programs, one in early intervention (birth to 3) and the other in a preschool/pre-kindergarten setting.

PROGRAM REQUIREMENTS The following is a recommended sequence for completing the program. In consultation with your advisor alternative patterns may be followed.

COURSE SEQUENCE

SEQUENCE OF COURSES FOR THE ALTERNATIVE CREDENTIAL PROGRAM IN EARLY CHILDHOOD

SPECIAL EDUCATION (ECSE): TOTAL 35 UNITS

Senior Year or Summer or First Semester

Prerequisites as needed - 12 units in early childhood education/development
### ADDITIONAL REQUIREMENTS:

1. Passage of CBEST. Must be met prior to student teaching.
2. Writing proficiency (may be met by course or exam): English 305 or 406 or the Upper Division Writing Proficiency Exam with score of 10 or better. Must be met prior to student teaching.
3. Knowledge of the Constitution of the United States. May be met by course or exam (anytime during the program). Consult the Credential Preparation Office for details.

### DETERMINATION OF CANDIDATE COMPETENCE

The performance of each candidate for the ECSE Emphasis Credential will be documented by both the on-site supervisor of the practicum placement (for each of two practicum placements) and the designated university supervisor, a faculty member in ECSE. Such documentation will take the form of a) the Infant/Toddler Intervention Competency Checklist for the practicum in Infant/Toddler Intervention; and b) the Preschool Competency Checklist for the practicum in Preschool Special Education. Each competency is rated on a 5 point scale. Each form also contains a section for additional comments. At the end of each practicum assignment, two Checklists will be completed, one by the on-site supervisor and one by the university supervisor, resulting in four checklists completed overall for each candidate. Each practicum student will also be given the opportunity to develop a narrative statement to accompany the supervisor’s checklists and comments.

Each on-site supervisor will be presented with a copy of the appropriate Competency Checklist at the beginning of the practicum experience. Each will be encouraged to engage in an ongoing review of the candidate’s performance throughout the semester-long practicum. University supervisors are familiar with the Competency Checklists, and will encourage ongoing dialogue between the supervisors and the candidate about progress towards the competencies. At minimum, a mid-term evaluation will be conducted, involving both supervisors and the candidate, to provide the candidate with a formal review of their progress and assistance with achieving remaining competencies. At the end of the practicum experience the Competency Checklist will serve as the final evaluation and determine the grade for the experience.

In addition to these ratings of candidate performance, each candidate will complete a portfolio addressing each of the identified competencies for submission to ECSE faculty during their final semester in the credential program. This portfolio will be reviewed by a panel of ECSE faculty members as additional evidence of the candidate’s attainment of competencies and will also be factored into the candidate’s consideration for the credential. Competency Checklists and portfolio comments will be forwarded to the Director of the Credential Preparation Office at CSUN who makes the final recommendation for credentials.

### CERTIFICATE OF ELIGIBILITY/ CREDENTIAL APPLICATION

Candidates who are completing their professional education requirements at CSUN may file their credential applications as soon as the final coursework is in progress during the final semester in which requirements are being met.

If the candidate verifies employment as a teacher in special education, the candidate will receive a Preliminary Level 1 credential valid for five years during which time the candidate must complete requirements for a Level II credential. If the candidate does not have employment or offer of employment, the candidate will receive a Certificate of Eligibility which can be converted to a Level 1 credential when employment has been obtained. During the time the Certificate of Eligibility is in effect, the clock is stopped and time is not counted toward the five years during which the Level II credential must be obtained.

### PROFESSIONAL LEVEL II EDUCATION SPECIALIST CREDENTIAL PROGRAM WITH SPECIALIZATION IN:

This program is designed for candidates seeking a Professional Clear (Level II) Education Specialist Credential.
who hold a valid Preliminary (Level I) Education Specialist Credential. The program leads to completion of a Professional Clear (Level II) Education Specialist Credential with specialization areas in Mild/Moderate Disabilities, Moderate/Severe Disabilities, Deaf and Hard of Hearing, and Early Childhood Special Education. A Professional Clear (Level II) Education Specialist Credential program must be completed within five years of employment.

ADMISSION

Admission is required before taking any professional education courses.

Procedures for admission are conducted through the Credential Preparation Office in E-103.

Applications are accepted at any time. To ensure an adequate processing time, we recommend you submit materials by April 30 for Fall admission and November 15 for Spring admission. Individuals who apply later may be placed on a waiting list if programs have reached maximum enrollment.

For those applicants who have completed a Preliminary (Level I) Education Specialist Teaching Credential at California State University, Northridge, the following item must be submitted to the Credential Preparation Office.

1. Application for Admission form.
   The Application for Admission form is attached to this brochure. Only forms that are completed in their entirety, including the applicant’s signature will be accepted. Students must submit a copy of the Preliminary (Level I) Education Specialist Teaching Credential or a letter from the issuing institution indicating recommendation for the Level I Credential. An application fee is required with all applications. The fee amount is listed in the application packet.
   Please Note: If you are completing the Level I Credential program at CSUN, the credential recommendation letter will be mailed to you upon formal recommendation for the Level I Credential.

   For those applicants who have not completed a Preliminary (Level I) Education Specialist Teaching Credential at California State University, Northridge, complete item #1, the Application for Admission form, as well as the following items:

2. Submit a copy of Level I Evaluation(s) from previous Institution of Higher Education.

3. Statement of Professional Plans and Interest in this Program.
   On separate sheets please write a brief essay (no less than one single spaced standard page and no more than five) in which you discuss how you have come to make the decision to become a special education teacher, what you find most significant or rewarding about the role, what you find most challenging, and what you hope to gain from participation in the CSUN credential program.

   Two letters of reference/support are required for admission to this program. The letters should address your potential as a special education teacher and your potential for success in a graduate-level intensive credential program. It will be most useful if at least one of these letters come from supervising teachers or administrators with the school in which you are currently employed. Other appropriate references are college or university faculty who are familiar with your academic capabilities. Please request that your references send the originals of the letters to you so that you can submit a complete application.

5. Transcripts from all institutions including CSUN.
   Transcripts from institutions other than CSUN must be official. Photocopies of transcripts, grade slips and computer printouts are not acceptable. Arrange for the transcripts to be sent directly to you by the institution so that you can submit them to us as part of this package. Transcripts from CSUN may be ordered at the Admissions and Records Office. Order transcripts directly from other institution. Be aware that some institutions take as much as six weeks to send transcripts.

6. Interview of Non-CSUN Level II Applicants.
   Contact the Department of Special Education (818/677-2596) to arrange for an interview with faculty on the Level II Admission Committee.
   All application materials must be submitted to the Credential Preparation Office.

Admission to the Credential Program does not constitute Admission to the University. Application must be made separately to the Office of Admissions and Records.

When the file has been completed, the candidate’s file will be reviewed by faculty members of the College of Education; the candidate will be evaluated on the basis of academic achievement, commitment to teaching and ability to communicate. When the Faculty committee reaches a decision regarding the admission of the candidate, the Credential Preparation Office will notify the candidate in writing. Enrollment in Required Education Courses Is Limited to Persons Who Have Been Admitted.

If your GPA does not meet the standards required for admission, you may wish to apply for exceptional admission. Obtain the Exceptional Admission directions from the Credential Preparation Office, E 103.

As part of the admission process, candidates are advised that Conviction Records may prevent a candidate from obtaining a credential. Although a wide variety of convictions will not prevent the issuance of a credential, the Education Code does stipulate that certain conviction records will mandate the denial of a teaching document. Candidates with conviction records must consult with either the Director or the Assistant Director of the Credential Preparation Office regarding the nature of the conviction record prior to submitting the application.

SPONSORSHIP AND GENERAL ADVISEMENT

A faculty member will provide each candidate sponsorship once enrolled in the SPED 628 Induction and Support course. Candidates are only eligible for this course after having: (a) obtained a valid Preliminary (Level I) Education Specialist Credential and (b) submitted a complete Level II application to the Credential Preparation Office.

Advancement for Level II candidates is provided by faculty in the Department of Special Education. Contact the department office at (818) 677-2596 to make an appointment for such advisement.

Master’s programs in Special Education are available through the Special Education Department. Candidates who plan to work concurrently for a specialist credential and a master’s degree must be admitted as a graduate student in the area of their choice. Consult the Special Education Office and your sponsor for information.

LEVEL II MILD/ MODERATE SPECIALIZATION PROGRAM REQUIREMENTS

The program appearing below has been designed for candidates to follow a sequence of completing section A coursework first, section B, C, and E coursework second, and
D coursework last as a culminating experience.

A. DEVELOPMENT OF INDUCTION PLAN (4 UNITS)
1. SPED 628MM Induction and Support .........................2-2
   This course provides for collaboration between the candidate, the University Supervisor, and the Employer Designated Support Provider in the development of a written individualized Professional Credential Induction Plan. The development of this plan includes a Level II Planning Form that delineates all requirements of each individual candidate’s program. This course should be taken two times.

B. SPECIALIZED STANDARDS (9 UNITS)
Candidates select either the Emotional Disturbance or Learning Specialist Strand. Equivalents may include non-IHE activities.

   Emotional Disturbance Strand:
   2. SPED 611/611L Consultation Processes in Education........3
   3. SPED 652 Educating Children with Serious Emotional Disturbance .................3
   4. SPED 695A Advanced Behavior Management ..........3

   or

   Learning Specialist Strand:
   2. SPED 611/611L Consultation Processes in Education........3
   3. SPED 620 Assessment and Evaluation in Special Education ..................3
   4. SPED 670 Reading Processes .......................................3

C. INDIVIDUALIZED REQUIREMENTS (0-12 UNITS)
Determined in collaboration with the employer designated support provider and CSUN faculty advisor (may include non-IHE activities).

D. EVALUATION OF INDUCTION PLAN (2 UNITS)
5. SPED 629MM Assessment of Professional Competence ....2
   This course provides a mechanism for a final assessment of the candidate’s competence in individually targeted areas appearing on the Professional Credential Induction Plan and the Level II Planning Form.

E. ADDITIONAL STATE REQUIREMENTS
6. Health (HSCI 435 or HSCI 436)..................3
7. Computers (recommended SPED 595T; alternate options - EED 613, SED 514, MUS 191 & MUS 191L, or KIN 402 & KIN 402L)..............................3

LEVEL II DEAF & HARD OF HEARING SPECIALIZATION PROGRAM REQUIREMENTS
The program appearing below has been designed for candidates to follow a sequence of completing section A coursework first, section B, C, and E coursework second, and D coursework last as a culminating experience.

A. DEVELOPMENT OF INDUCTION PLAN (4 units)
1. SPED 628D Induction and Support .........................2-2
   This course provides for collaboration between the candidate, the University Supervisor, and the Employer Designated Support Provider in the development of a written individualized Professional Credential Induction Plan. The development of this plan includes a Level II Planning Form that delineates all requirements of each individual candidate’s program. This course should be taken two times.

B. SPECIALIZED STANDARDS (12 UNITS)
The following courses are required:
2. SPED 641G Augmentative & Alternative Communication ..................3

   or

3. SPED 695A Advanced Behavior Management ..........3
4. SPED 622 Transition and Career Education ..........3
5. SPED 611/611L Consultation Processes in Education ..........3
   Equivalents may include non-IHE activities.

C. INDIVIDUALIZED REQUIREMENTS (0-12 UNITS)
Determined in collaboration with the employer designated support provider and CSUN faculty advisor (may include non-IHE activities).

D. EVALUATION OF INDUCTION PLAN (2 UNITS)
6. SPED 629M5 Assessment of Professional Competence ....2
   This course provides a mechanism for a final assessment of the candidate’s competence in individually targeted areas appearing on the Professional Credential Induction Plan and the Level II Planning Form.

E. ADDITIONAL STATE REQUIREMENTS
7. Health (HSCI 435 or HSCI 436)..................3
8. Computers (recommended SPED 595T; alternate options - EED 613, SED 514, MUS 191 & MUS 191L, or KIN 402 & KIN 402L)..............................3

LEVEL II MODERATE/SEVERE SPECIALIZATION PROGRAM REQUIREMENTS
The program appearing below has been designed for candidates to follow a sequence of completing section A coursework first, section B, C, and E coursework second, and D coursework last as a culminating experience.

A. DEVELOPMENT OF INDUCTION PLAN (4 UNITS)
1. SPED 628MS Induction and Support .........................2-2
   This course provides for collaboration between the candidate, the University Supervisor, and the Employer Designated Support Provider in the development of a written individualized Professional Credential Induction Plan. The development of this plan includes a Level II Planning Form that delineates all requirements of each individual candidate’s program. This course should be taken two times.

B. SPECIALIZED STANDARDS (12 UNITS)
The following courses are required:
2. SPED 641G Augmentative & Alternative Communication ..................3

   or

3. SPED 695A Advanced Behavior Management ..........3
4. SPED 622 Transition and Career Education ..........3
5. SPED 611/611L Consultation Processes in Education ..........3
   Equivalents may include non-IHE activities.

C. INDIVIDUALIZED REQUIREMENTS (0-12 UNITS)
Determined in collaboration with the employer designated support provider and CSUN faculty advisor (may include non-IHE activities).

D. EVALUATION OF INDUCTION PLAN (2 UNITS)
6. SPED 629M5 Assessment of Professional Competence ....2
   This course provides a mechanism for a final assessment of the candidate’s competence in individually targeted areas appearing on the Professional Credential Induction Plan and the Level II Planning Form.

E. ADDITIONAL STATE REQUIREMENTS
7. Health (HSCI 435 or HSCI 436)..................3
8. Computers (recommended SPED 595T; alternate options - EED 613, SED 514, MUS 191 & MUS 191L, or KIN 402 & KIN 402L)..............................3

* Note: A list of possible options can be found on program plan form.
LEVEL II EARLY CHILDHOOD SPECIAL EDUCATION
SPECIALIZATION PROGRAM REQUIREMENTS

The program appearing below has been designed for candidates to follow a sequence of completing section A coursework first, section B, C, and E coursework second, and D coursework last as a culminating experience.

A. DEVELOPMENT OF INDUCTION PLAN (4 units)
   1. SPED628EC Induction and Support .........................2-2
      This course provides for collaboration between the candidate, the University Supervisor, and the Employer Designated Support Provider in the development of a written individualized Professional Credential Induction Plan. The development of this plan includes a Level II Planning Form that delineates all requirements of each individual candidate’s program. This course should be taken two times.

B. SPECIALIZED STANDARDS (9-15 units)
   The following courses are required:
   2. SPED612 Design and Delivery of Indirect Services ......2
   3. SPED680EC Problems and Practices in Early Childhood Special Education..............................................1
   4. SPED629EC Assessment of Professional Competence........2
   5. SPED695G Augmented and Alternative Communication 3
      Equivalents may include non-IHE activities.

C. INDIVIDUALIZED REQUIREMENTS (0-12 units)
   Determined in collaboration with the employer designated support provider and CSUN faculty advisor (Equivalents may include non-IHE activities.)

D. EVALUATION OF INDUCTION PLAN (2 units)
   6. SPED629EC Assessment of Professional Competence......2
      This course provides a mechanism for a final assessment of the candidate’s competence in individually targeted areas appearing on the Professional Credential Induction Plan and the Level II Planning Form.

E. ADDITIONAL STATE REQUIREMENTS
   7. Health (HSCI 435 or HSCI 436)........................................3
   8. Computers (recommended SPED 595T; alternate options - EED 613, SED 514, MUS 191 & MUS 191L, or KIN 402 & KIN 402L)..............................3

ACADEMIC WAIVER PROGRAMS

Credential regulations require candidates for a credential to verify their competency in their teaching field either by passing the appropriate Praxis/SSAT examinations or by completing an approved academic program referred to as a "waiver program" which waives the examinations. Below is a list of waiver programs and the credential categories they satisfy. Please note that waiver programs and degree majors are not necessarily identical. Advisement on course requirements for the waiver program is in the specific department.

CREDENTIAL DEPARTMENTS WITH WAIVER PROGRAMS

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<tr>
<th>CREDENTIAL</th>
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<td>Multiple Subject Credential</td>
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Foreign Languages..............French
Foreign Languages..............German
Foreign Languages..............Spanish
Health Science...............Health Science
Home Economics.................Family Environmental Sciences
Life Science...................Biology
Mathematics..................Mathematics
Music.........................Music
Physical Education...........Kinesiology
Science......................Chemistry
Science.......................Physics
Science.......................Geological Science
Science.......................Biology
Social Sciences...............History

Candidates choosing to take the examination route must pass the examination prior to student teaching. All candidates must receive approval of an academic department in order to student teach regardless of whether the candidates pursue the exam or waiver program route.

Copies of the course requirements are listed below as they have been approved by the Commission on Teacher Credentialing to waive the required examination. Undergraduate students should contact their major department to determine integration between the waiver program and their major requirements for graduation. Post-baccalaureate students should contact the academic department to determine equivalency of their program to the waiver program.

***At the time this catalog copy is being prepared, we are in a transition from the “old” waiver programs shown below and “new” waiver programs to be developed over an extended period of time as required by the Commission on Teacher Credentialing.

The timeline is as follows: Phase III Business, Health, Home Economics September 1, 2001 Final date to complete old programs.

Check with the Credential advisor in your waiver program to be sure you are enrolled in the current program. Advising concerning waiver programs especially course requirements and course substitutions is the responsibility of the academic department not the credential preparation office.

ART

Satisfactory completion of the program includes successful completion of BA requirements or a BA from another institution.

Consult the Art General Studies Department concerning degree requirements.

The art major will include a minimum of fifty-four units. The core program is required of all art majors, regardless of areas of specialization. All courses taken beyond the lower division core requirements by art majors must be approved by an art adviser. An Art Department Contract form is required for this purpose. The Single Subject Credential in Art also includes the following requirements:

- Portfolio review and interview
- Grade of “C” or better in Art 485, Art 486
- Overall GPA of 2.75 and Art GPA of 2.75
- A minimum of eight units in Art at CSUN before Student Teaching
- Positive recommendations from Art Education Faculty

BUSINESS

Contact the College of Business for further information.
ENGLISH

The Credential Option is one of five programs from which students majoring in English may select. The other options are described under “English” in the catalog. The Credential Option provides the core subject matter preparation for the Single Subject Credential in English. Students may qualify to student teach by (a) completing the course work in the Credential Option with a minimum 2.99 GPA and no grade lower than a “C,” (b) successfully completing the Clearance Interview, and (c) successfully completing the appropriate courses in the College of Education. All students should seek academic advising from the Credential Advisor before they achieve junior standing. Transfer students should also see the Credential Advisor for academic advising.

LOWER DIVISION CORE ..........................................................9 UNITS
Complete all of the following:
ENGL 258 Major English Writers I
ENGL 259 Major English Writers II
ENGL 275 Major American Writers

UPPER DIVISION CORE ..........................................................36 UNITS
ENGL 355 Writing About Literature.................................3 units
Literatures of Cultural Diversity..................................3 units
Select one course from the following:
ENGL 311 History of African-American Literature
ENGL 314 North American Indian Literature
ENGL 368 Gay Male Writers
ENGL 369 Lesbian Writers
ENGL 371 Issues in Jewish-American Writing
ENGL 431 Images of Women in Writing
ENGL 433 Women Authors
ENGL 434 19th Century Women Novelists
ENGL 487 Latino/a Literature

In addition to these courses, students may select an appropriate experimental topics course in English or may elect to take an appropriate course in another department, including AAS 321; CHS 380, 381; or PAS 344, 346. Course selection should be made in consultation with the Credential advisor.

Literature ............................................................................6 units

Select any two courses from the following:
ENGL 414 Chaucer
ENGL 416 Shakespeare: Selected Plays
ENGL 417 Shakespeare Survey
ENGL 418 English Drama to 1642
ENGL 419 English Drama 1660-1880
ENGL 420 Milton
ENGL 427 Drama from Ibsen to the Present
ENGL 443 English Literature of the Middle Ages
ENGL 449 English Renaissance
ENGL 452 Early 17th Century
ENGL 456 Age of Enlightenment
ENGL 458 Romantic Age
ENGL 460 Victorian Age
ENGL 461 Modern British Literature
ENGL 462 Contemporary British Literature
ENGL 463A Modern Poetry
ENGL 463B Contemporary Poetry
ENGL 466 Major British Novelists I: 1700-1815
ENGL 467 Major British Novelists II: 1850-1900
ENGL 468 Major British Novelists III: 1900-Present
ENGL 473 American Literature: 1607-1860
ENGL 474 American Literature: 1860-1912
ENGL 475 American Literature: 1912-1945
ENGL 476 Contemporary American Literature
ENGL 477 Major American Novelists I: 19th Century
ENGL 478 Major American Novelists II: the 20th Century
Linguistics and Language Study......................................6 units
Select two courses from the following:
ENGL 301 Language and Linguistics
ENGL 302 Introduction to Modern Grammar
ENGL 405 Language Differences & Language Change

Required Courses .........................................................12 units
ENGL 406 Advanced Expository Writing for Teachers
ENGL 429 Adolescent Literature
ENGL 436 Major Critical Theories
ENGL 495 Senior Seminar in Literature

Electives.............................................................................6 units
Select any two additional Upper Division courses in English except 300, 305, 316, or 364.

Total Units in Major ..........................................................45

ENGLISH REQUIREMENTS (15 UNITS)

COMMUNICATION STUDIES REQUIREMENTS (15 UNITS)
Select three units from the following:
COMS 301 Performance, Language, & Cultural Studies
COMS 321 Rhetorical Discourse
COMS 323 Group Communication
COMS 327 Rhetorical Studies
COMS 356 Intercultural Communication

COMMUNICATION STUDIES ELECTIVES (9 UNITS)
Select three units from the following:
COMS 151/L Fundamentals of Public Speaking
COMS 224/L Strategies of Argumentation
COMS 303 Narrative in Performance
COMS 304 Poetry in Performance

Select three units from the following:
COMS 320 Communicative Functions of Language
COMS 420 Language and Symbolic Processes

ENGLISH REQUIREMENTS (15 UNITS)

ENGL 258 Major English Writers I
ENGL 259 Major English Writers II
ENGL 275 Major American Writers
ENGL 429 Literature for Adolescents
ENGL 485A-Z Senior Seminar in Literature

ENGLISH ELECTIVES (6 UNITS)
Select three units from the following Literatures of Cultural Diversity*:
ENGL 311 History of African-American Literature
ENGL 314 North American Indian Literature
ENGL 368 Gay Male Writers
ENGL 369 Lesbian Writers
ENGL 371 Issues in Jewish-American Writing
ENGL 431 Images of Women in Writing
ENGL 433 Women Authors
ENGL 434 19th Century Women Novelists
ENGL 487 Latino/a Literature

(*This elective may also be fulfilled by selecting an appropriate experimental topics course in English or other departments, such as AAS 321, CHS 380, CHS 381, PAS 344, or PAS 346. Course selection should be done in consultation with an English Department credential advisor.)

Select three units from the following Literature Electives:
ENGL 414 Chaucer
ENGL 416 Shakespeare: Selected Plays
ENGL 417 Shakespeare: A Survey
ENGL 418 English Drama to 1642
ENGL 419 English Drama 1660-1880
ENGL 420 Milton

COMMUNICATION STUDIES ELECTIVES (9 UNITS)
Select three units from the following:
COMS 303 Narrative in Performance
COMS 304 Poetry in Performance

Select three units from the following:
COMS 320 Communicative Functions of Language
COMS 420 Language and Symbolic Processes
ENGL 427 Drama from Ibsen to the Present .................3
ENGL 443 English Literature of the Middle Ages .......3
ENGL 449 English Renaissance ..............................3
ENGL 452 Early 17th Century ....................................3
ENGL 456 Age of Enlightenment ............................3
ENGL 458 Romantic Age .................................3
ENGL 460 Victorian Age ........................................3
ENGL 461 Modern British Literature .........................3
ENGL 462 Contemporary British Literature ...............3
ENGL 463A Modern Poetry .................................3
ENGL 463B Contemporary Poetry .........................3
ENGL 466 Major British Novelists I: 1700-1815 .........3
ENGL 467 Major British Novelists II: 1815-1900 ......3
ENGL 468 Major British Novelists III: 1900-Present ....3
ENGL 470A-Z Major Authors ..................................3
ENGL 473 American Literature: 1607-1860 ...............3
ENGL 474 American Literature: 1860-1912 ...............3
ENGL 475 American Literature: 1912-1945 ...............3
ENGL 476 Contemporary American Literature ..........3
ENGL 477 Major American Novelists I: 19th Century 3
ENGL 478 Major American Novelists II: 20th Century 3

OUTSIDE ELECTIVES (6 UNITS)
Select three units from the following*:
RTVF 309 Film as Literature .........................................3
JOUR 465 Mass Communication & Popular Culture ...3

**This elective may also be fulfilled by selecting an appropriate upper division English Course. Course selection should be done in consultation with an English Department advisor.

Select three units from the following:
TH 310 Theatre in Performance ..................................3
TH 371 Creative Drama ........................................3

TOTAL UNITS: 51

ENGLISH/THEATRE

ENGLISH REQUIREMENTS (18 UNITS)
ENGL 258 Major English Writers I .........................3
ENGL 259 Major English Writers II .......................3
ENGL 275 Major American Writers .........................3
ENGL 406 Advanced Expository Writing for Teachers ...3
ENGL 436 Major Critical Theories .........................3
ENGL 495A-Z Senior Seminar in Literature ............3

ENGLISH ELECTIVES (12 UNITS)
Select three units from the following:
ENGL 301 Language and Linguistics .......................3
ENGL 302 Introduction to Modern Grammar ...............3
ENGL 400 History of the English Language ..............3
ENGL 405 Language Differences and Language Change ..............................................................3

Select three units from the following:
ENGL 416 Shakespeare: Selected Plays ..................3
ENGL 417 Shakespeare: A Survey .........................3

Select three units from the following*:
ENGL 311 African-American Writing .....................3
ENGL 314 History of North American Indian Lit. ....3
ENGL 368 Gay Male Writers .................................3
ENGL 369 Lesbian Writers ......................................3
ENGL 371 Issues in Jewish-American Writing ..........3
ENGL 431 Images of Women in Literature .................3
ENGL 433 Women Authors ......................................3
ENGL 434 19th Century Women Authors ..................3
ENGL 467 Latino/a Literature ..............................3

(*This elective may also be fulfilled by selecting an appropriate experimental topics course in English or other departments, such as AAS 321, CHS 380, CHS 381, PAS 344, or PAS 346. Course selection should be done in consultation with an English Department credential advisor.)

Select three units from the following:
ENGL 414 Chaucer ..................................................3
ENGL 418 English Drama to 1642 .........................3
ENGL 419 English Drama 1660-1880 .......................3
ENGL 420 Milton ......................................................3
ENGL 427 Drama from Ibsen to Present ..................3
ENGL 429 Literature for Adolescents .......................3
ENGL 443 English Literature of the Middle Ages ......3
ENGL 449 The English Renaissance .......................3
ENGL 452 The Early Seventeenth Century ...............3
ENGL 456 Age of Enlightenment ..........................3
ENGL 458 Romantic Age ........................................3
ENGL 460 The Victorian Age ..................................3
ENGL 461 Modern British Literature .......................3
ENGL 462 Contemporary British Literature .............3
ENGL 463A Modern Poetry .......................................3
ENGL 463B Contemporary Poetry ............................3
ENGL 466 Major British Novelists I: 1700-1815 .........3
ENGL 467 Major British Novelists II: 1815-1900 ......3
ENGL 468 Major British Novelists III: 1900-Present ...3
ENGL 470A-Z Major Authors ..................................3
ENGL 473 American Literature: 1607-1860 ...............3
ENGL 474 American Literature: 1860-1912 ...............3
ENGL 475 American Literature: 1912-1945 ...............3
ENGL 476 Contemporary American Literature ..........3
ENGL 477 Major American Novelists I: 19th Century .3
ENGL 478 Major American Novelists II: 20th Century .3

ENGL 460 The Victorian Age ..................................3
ENGL 461 Modern British Literature .......................3
ENGL 462 Contemporary British Literature .............3
ENGL 463A Modern Poetry .......................................3
ENGL 463B Contemporary Poetry ............................3
ENGL 466 Major British Novelists I: 1700-1815 .........3
ENGL 467 Major British Novelists II: 1815-1900 ......3
ENGL 468 Major British Novelists III: 1900-Present ...3
ENGL 470A-Z Major Authors ..................................3
ENGL 473 American Literature: 1607-1860 ...............3
ENGL 474 American Literature: 1860-1912 ...............3
ENGL 475 American Literature: 1912-1945 ...............3
ENGL 476 Contemporary American Literature ..........3
ENGL 477 Major American Novelists I: 19th Century .3
ENGL 478 Major American Novelists II: 20th Century .3

Total ........................................................................30 units

BREADTH AND PERSPECTIVE COURSES:
TH 102 Theatre: Form and Content .........................3
TH 103 Theatre: Process ........................................2
TH 142 Introduction to Theatre Performance ............2
TH 142A Introduction to Stage Voice & Movement ..3
TH 167 Makeup for the Performer .........................1
TH 242 Basic Acting Technique ................................3
TH 242A Basic Stage Voice & Movement Technique ...3
TH 261 Fundamentals of Scenery & Properties Technologies ..................................................2
TH 262 Fundamentals of Costume Technology ........2
TH 263 Fundamentals of Lighting & Sound Technology ..................................................2
TH 322A World Theatre and Drama I .....................3
TH 322B World Theatre and Drama II ....................3
TH 322C World Theatre and Drama III .................3
TH 381 Management Techniques for the Theatre .3
TH 444 Principles of Directing ...............................3
TH 445 Advanced Directing ....................................3

Select one course from the following ..................2-3 units
TH 342 Intermediate Stage Movement ..................2
TH 343 Intermediate Stage Voice and Speech ..........3
TH 348 Acting the Text ........................................2
TH 371 Creative Drama ........................................3

Total ........................................................................37-38 units

Overall Total ..................................................30-38 units

LANGUAGES OTHER THAN ENGLISH: FRENCH

LOWER DIVISION CORE
FREN 200 Beginning French Conversation ............3
FREN 202 Intermediate French Reading .................3
FREN 204 Review of French Grammar ..................3
FREN 206 Intermediate French Writing .................3
MCLL 295A Masterpieces of European Literature I .3
MCLL 295B Masterpieces of European Literature II .3

UPPER DIVISION CORE
FREN 300 Advanced French Conversation ............3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 305</td>
<td>French Pronunciation and Diction</td>
<td>3</td>
</tr>
<tr>
<td>FREN 306</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>FREN 315A</td>
<td>Masterpieces of French Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FREN 315B</td>
<td>Masterpieces of French Literature II</td>
<td>3</td>
</tr>
<tr>
<td>FREN 380</td>
<td>French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FREN 381</td>
<td>The Contemporary French World</td>
<td>3</td>
</tr>
<tr>
<td>FREN 406</td>
<td>Textual Analysis and Composition</td>
<td>3</td>
</tr>
<tr>
<td>FREN 405</td>
<td>Art of Translation</td>
<td>3</td>
</tr>
<tr>
<td>FREN 415D</td>
<td>French Drama</td>
<td>3</td>
</tr>
<tr>
<td>FREN 415F</td>
<td>French Fiction</td>
<td>3</td>
</tr>
<tr>
<td>FREN 415P</td>
<td>French Poetry</td>
<td>3</td>
</tr>
<tr>
<td>FREN 496A-Z</td>
<td>Experimental Courses</td>
<td>3</td>
</tr>
</tbody>
</table>

Two courses from the following: 6 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FREN 400</td>
<td>Structure of the German Language</td>
<td>3</td>
</tr>
<tr>
<td>FREN 404</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>FREN 405</td>
<td>The Art of Translation</td>
<td>3</td>
</tr>
<tr>
<td>GERM 431</td>
<td>Modern German Literature</td>
<td>3</td>
</tr>
<tr>
<td>GERM 450</td>
<td>The Age of Goethe</td>
<td>3</td>
</tr>
<tr>
<td>GERM 451</td>
<td>The Romantic Age</td>
<td>3</td>
</tr>
<tr>
<td>GERM 496A-Z</td>
<td>Experimental Courses in German Lit.</td>
<td>3</td>
</tr>
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</table>

Two courses from the following: 6 units

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 131</td>
<td>Health and Society (Formerly 120)</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 170,170L</td>
<td>Emergency Health Procedures</td>
<td>1</td>
</tr>
<tr>
<td>HSCI 201</td>
<td>Introductory Food Science</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 232</td>
<td>Individual and Family Development</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 281</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 336</td>
<td>Health Science</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 357</td>
<td>Nutrition and Health (Formerly 350)</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 358</td>
<td>Principles of Accident Prevention</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 367</td>
<td>Health Behavior (Formerly 421)</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 378</td>
<td>Health Science for Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 381</td>
<td>Community Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 488</td>
<td>Health Education: Introductions to Study of Disease</td>
<td>3</td>
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</table>

Select one course from the following: 3 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SPAN 380</td>
<td>Latin American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 381</td>
<td>Spanish Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 382</td>
<td>Literature &amp; Society in Latin America</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 383</td>
<td>Literature &amp; Society in Spain</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following: 3 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 408</td>
<td>Literature of the Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 419</td>
<td>French Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 420</td>
<td>French Pronunciation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 496A-Z</td>
<td>Experimental Courses in Spanish Lit.</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following: 3 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 450</td>
<td>Latin American Novel</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 451F</td>
<td>French Fiction</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 452</td>
<td>The Contemporary Mexican Novel</td>
<td>3</td>
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</tbody>
</table>

Total Units in Spanish Major: 48 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>Introductory Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Calculus for Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 106</td>
<td>Principles of Mathematics</td>
<td>5</td>
</tr>
<tr>
<td>PSY 150</td>
<td>Principles of Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SOC 150</td>
<td>Introductory Sociology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 211</td>
<td>Human Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 281</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 433</td>
<td>Counseling Health Problems</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 445</td>
<td>Solving School-Community Health Problems</td>
<td>3</td>
</tr>
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</table>

Grand Total: 64 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>FES 150</td>
<td>Apparel Construction I</td>
<td>3</td>
</tr>
<tr>
<td>FES 160</td>
<td>Introductory Textiles</td>
<td>3</td>
</tr>
<tr>
<td>FES 170</td>
<td>Creative Expression in Family Environmental Sciences</td>
<td>2</td>
</tr>
<tr>
<td>FES 201</td>
<td>Introductory Food Science</td>
<td>3</td>
</tr>
<tr>
<td>FES 207</td>
<td>Nutrition for Life</td>
<td>3</td>
</tr>
<tr>
<td>FES 232</td>
<td>Individual and Family Development</td>
<td>3</td>
</tr>
<tr>
<td>FES 303</td>
<td>Cultural Aspects of Food and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FES 309</td>
<td>Maternal Infant and Child Nutrition</td>
<td>3</td>
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</table>

*** (Please refer to page 86)
## Mathematics Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MATH 150A</td>
<td>Mathematical Analysis I ................. 5</td>
</tr>
<tr>
<td>MATH 150AL</td>
<td>Calculus Lab A .................................. 1</td>
</tr>
<tr>
<td>MATH 150B</td>
<td>Mathematical Analysis II .................. 5</td>
</tr>
<tr>
<td>MATH 150BL</td>
<td>Calculus Lab B .................. 1</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Mathematical Analysis III ................ 3</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Foundations of Higher Mathematics ....... 3</td>
</tr>
<tr>
<td>MATH 364</td>
<td>Elementary Modern Algebra ................ 3</td>
</tr>
<tr>
<td>MATH 373</td>
<td>Modern Geometry ................................ 3</td>
</tr>
<tr>
<td>MATH 411</td>
<td>Foundations of Geometry .................... 3</td>
</tr>
<tr>
<td>MATH 412</td>
<td>Foundations of Algebra ...................... 3</td>
</tr>
<tr>
<td>MATH 441</td>
<td>Introduction to Statistical Inference .... 3</td>
</tr>
<tr>
<td>MATH 490</td>
<td>Seminar in History of Mathematics ....... 3</td>
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</table>

Total ........................................ 39 units

## Mathematics Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MATH 150BL</td>
<td>Calculus Lab A .................................. 1</td>
</tr>
<tr>
<td>MATH 150B+</td>
<td>Mathematical Analysis II .................. 3</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Mathematical Analysis III ................ 3</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Foundations of Higher Mathematics ....... 3</td>
</tr>
<tr>
<td>MATH 364</td>
<td>Elementary Modern Algebra ................ 3</td>
</tr>
<tr>
<td>MATH 373</td>
<td>Modern Geometry ................................ 3</td>
</tr>
<tr>
<td>MATH 411</td>
<td>Foundations of Geometry .................... 3</td>
</tr>
<tr>
<td>MATH 412</td>
<td>Foundations of Algebra ...................... 3</td>
</tr>
<tr>
<td>MATH 441</td>
<td>Introduction to Statistical Inference .... 3</td>
</tr>
<tr>
<td>MATH 490</td>
<td>Seminar in History of Mathematics ....... 3</td>
</tr>
</tbody>
</table>

Total ........................................ 39 units

## Breadth and Perspective Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>General Biology .................. 4</td>
</tr>
<tr>
<td>CHEM 110, 110L</td>
<td>Chemistry, Technology and Modern Society 4</td>
</tr>
<tr>
<td>FES 353</td>
<td>Apparel and Human Behavior .......... 3</td>
</tr>
<tr>
<td>FES 380</td>
<td>Family Environmental Sciences .... 3</td>
</tr>
<tr>
<td>FES 436</td>
<td>Parental Development .............. 3</td>
</tr>
<tr>
<td>FES 491</td>
<td>Family Environmental Sciences Projects 1-3</td>
</tr>
<tr>
<td>or FES 494</td>
<td>Supervised Field Study ............ 1-3</td>
</tr>
</tbody>
</table>

Total Breadth and Perspective ..................18-20 units

## Grand Total

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>General Biology .................. 4</td>
</tr>
<tr>
<td>CHEM 110, 110L</td>
<td>Chemistry, Technology and Modern Society 4</td>
</tr>
<tr>
<td>FES 353</td>
<td>Apparel and Human Behavior .......... 3</td>
</tr>
<tr>
<td>FES 380</td>
<td>Family Environmental Sciences .... 3</td>
</tr>
<tr>
<td>FES 436</td>
<td>Parental Development .............. 3</td>
</tr>
<tr>
<td>FES 491</td>
<td>Family Environmental Sciences Projects 1-3</td>
</tr>
<tr>
<td>or FES 494</td>
<td>Supervised Field Study ............ 1-3</td>
</tr>
</tbody>
</table>

Grand Total ..................................58-60 units

---

## Music

### Possession of a BA or BM degree in Music and the following Music Education requirements:

- **MUS 233** Keyboard Applications for Music Educ. 4
- **MUS 334** String Electronics 1
- **MUS 335** Woodwinds 1
- **MUS 336** Brass 1
- **MUS 337** Percussion 1
- **MUS 363** Choral Conducting and Arranging 3
- **MUS 364** Instrumental Conducting and Arranging 3
- **MUS 366** Early Field Experience in Music Educ. 2

Choose 1 according to Choral or Instrumental Emphasis:

- **MUS 473/L** Choral Methods and Practicum 4
- **MUS 474/L** Instrumental Methods and Practicum 4

Choose 4 units from the following:

- **MUS 133A** Beginning Guitar 1
- **MUS 135A** Orchestration I 2
- **MUS 137A** Jazz Arranging 2
- **MUS 338A** Vocal Techniques 1
- **MUS 367** World Music Applications 1
- **MUS 369** Field Band Techniques 1
- **MUS 479** General Music Practicum 1
- **MUS 480** Alternative Vocal Applications 1
- **MUS 481** Alternative Instrumental Applications 1

Additional Requirements:

- The Music Education Assessment is required for entry into student teaching (information available in the Music Department Office).

## Physical Education

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>General Biology ........... 4</td>
</tr>
<tr>
<td>BIO 281</td>
<td>Human Physiology ............ 3</td>
</tr>
<tr>
<td>LSRC/KIN 103</td>
<td>Introduction to Outdoor Ed and Backcountry 1</td>
</tr>
<tr>
<td>HSCI 170/170L</td>
<td>Emergency Health Procedures 1, 1</td>
</tr>
<tr>
<td>KIN 240</td>
<td>Conceptual Basis of Kinesiology 1</td>
</tr>
<tr>
<td>KIN 241</td>
<td>Movement Forms - Exercise 2</td>
</tr>
<tr>
<td>KIN 242</td>
<td>Movement Forms - Dance 2</td>
</tr>
<tr>
<td>KIN 243</td>
<td>Movement Forms - Sport 2</td>
</tr>
<tr>
<td>KIN 302</td>
<td>Measurement and Evaluation in Kinesiology 2</td>
</tr>
<tr>
<td>KIN 305</td>
<td>Historical and Philosophical Bases of Physical Education 3</td>
</tr>
<tr>
<td>KIN 306</td>
<td>Socio-Psychological Aspects of Physical Activity 3</td>
</tr>
<tr>
<td>KIN 325</td>
<td>Motor Development 3</td>
</tr>
<tr>
<td>KIN 329/329L</td>
<td>Motor Learning and Control &amp; Lab 2, 1</td>
</tr>
<tr>
<td>KIN 345</td>
<td>Sport Biomechanics 3</td>
</tr>
<tr>
<td>KIN 346</td>
<td>Physiology of Exercise 3</td>
</tr>
<tr>
<td>KIN 347</td>
<td>Individual &amp; Special Physical Education 3</td>
</tr>
<tr>
<td>KIN 403</td>
<td>Measurement and Evaluation Laboratory 1</td>
</tr>
<tr>
<td>KIN 471/471L</td>
<td>Development Movement Programs for Children &amp; Laboratory 2, 1</td>
</tr>
</tbody>
</table>

Select one of the following:

- **BIO 211** Human Anatomy 2
- **BIO 212** Laboratory in Human Anatomy 1
- **KIN 275** Musculoskeletal Fonda. of Human Move. 1

### Select one unit from the following:

- **KIN 330** Advanced Techniques of Individual Sports 3

---

Select one unit from the following:

- **KIN 130A** Karate 1
- **KIN 131A** Taekwondo 1

---

Select one unit from the following:

- **KIN 330** Advanced Techniques of Individual Sports 3
Select one unit from the following:
KIN 250AA-ZZ Professional Activities 1

GRAND TOTAL 51 Units

**SPECIALIZATION**

An additional 10 units will be selected by students from one of the following areas of specialization:

1. Secondary Physical Education
2. Dance Education
3. Elementary Physical Education
4. Adapted Physical Education

Please refer to specific course list under Option 1 - Physical Education in the Department of Kinesiology.

**Movement Proficiency Requirement**

Students seeking the single subject credential in physical education must complete movement proficiency requirements prior to student teaching. In addition to the waiver program requirements, credential candidates must achieve a minimum total score of 32 points by successfully demonstrating competence in 13 movement proficiency areas. Specific requirements vary by specialization. Additional information regarding these requirements may be obtained from the Kinesiology Department.

**SCIENCE**

Effective fall 1994 the old Life Science and Physical Science credentials were combined into a single credential in Science. Within the Science credential candidates must select from and specialize in one of four areas of concentration: Biology, Chemistry, Geological Sciences, or Physics.

**SCIENCE CORE — BREADTH COURSES:**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 152</td>
<td>Elementary Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 154L</td>
<td>Observational Astronomy</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 106</td>
<td>Biological Principles I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 106L</td>
<td>Biology Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 107</td>
<td>Biological Principles II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 107L</td>
<td>Biology Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 101,101L</td>
<td>General Chemistry I and Lab</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 101,102L</td>
<td>Geology of Planet Earth and Lab</td>
<td>4</td>
</tr>
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</table>

**or**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 110,112</td>
<td>Earth History and Lab</td>
<td>4</td>
</tr>
<tr>
<td>MATH 255A</td>
<td>Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 100A</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 100AL</td>
<td>General Physics Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 100B</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 100BL</td>
<td>General Physics Laboratory II</td>
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</tbody>
</table>

**TOTAL (Breadth units) ........................................37-44**

**CONCENTRATION IN BIOLOGY — DEPTH COURSES**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 322</td>
<td>Population Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 360</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 560</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 235</td>
<td>Introductory Organic Chemistry</td>
<td>4</td>
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</table>

**Total Units........................................13**

---

1 For the Physics Concentration either of the following is recommended as a substitute for ASTR 152:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 301</td>
<td>The Dynamical Universe</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 312</td>
<td>Solar System Astrophysics</td>
<td>3</td>
</tr>
</tbody>
</table>

2 For the Physics Concentration the following is recommended as a substitute for ASTR 154L:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 464DL</td>
<td>Experimental Physics (Astrophysics)</td>
<td>2</td>
</tr>
</tbody>
</table>

3 For the Physics Concentration the following is required in place of Math 255A: MATH 150A Mathematical Analysis I | 5 |

(MATH 150A may substitute for MATH 255A in the other Concentrations.)

**SELECTIVE PROGRAM**

Select one course in each category indicated below:

**Biology**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 316+316L</td>
<td>Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 403+403L</td>
<td>Plant Morphology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 406+406L+492K</td>
<td>Systematic Botany</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 407+407L+492N</td>
<td>Plant Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 504+504L</td>
<td>The Algae</td>
<td>4</td>
</tr>
</tbody>
</table>

**Zoology**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 312+312L+392F</td>
<td>Vertebrate Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 313+313L+392B</td>
<td>Invertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 513+513L</td>
<td>Entomology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Physiological Biology**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 281+282</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 481+481L</td>
<td>Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 482+482L</td>
<td>Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 580+580L</td>
<td>Cellular Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Structural and Developmental Biology**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 310+310L</td>
<td>Functional Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 441+441L</td>
<td>Embryology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Ecology**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 419+419L+492C</td>
<td>Microbial Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 422+422L</td>
<td>Physiological Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 423+492F</td>
<td>Field Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 424+424L+492G</td>
<td>Ecological Modeling</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 426+492P</td>
<td>Biology of the Desert</td>
<td>3</td>
</tr>
</tbody>
</table>

**Marine Biology**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 421+421L+492B</td>
<td>Marine Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 527+527L+592L</td>
<td>Biology of Pelagic Organisms</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 529+529L+592I</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units ........................................23-24**

**GRAND TOTAL........................................73-81**

**CONCENTRATION IN CHEMISTRY — DEPTH COURSES**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 321</td>
<td>Chemical Analysis I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Chemical Analysis I Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Chemical Analysis II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Chemical Analysis II Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 333,333L</td>
<td>Principles of Organic Chem. &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 334,334L</td>
<td>Principles of Organic Chem. &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 355</td>
<td>Fundamentals of Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 355L</td>
<td>Experimental Physical Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 401</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 255B</td>
<td>Calculus II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total (Depth units)........................................26**

**TOTAL FOR PROGRAM ........................................63-70**

**CONCENTRATION IN GEOLOGICAL SCIENCES — DEPTH COURSES**

**LOWER DIVISION**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 101,102L</td>
<td>Geology of Planet Earth and Lab*</td>
<td>4</td>
</tr>
<tr>
<td>or GEOL 110,112L</td>
<td>Earth History and Lab*</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 207</td>
<td>Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 230</td>
<td>Field Studies I</td>
<td>1</td>
</tr>
</tbody>
</table>

*If GEOL 101,102 was taken as part of the Breadth requirement, then GEOL 110,112 must be taken here for the

---

4 For the Physics Concentration, the following is required in place of PHYS 100A, 100AL, 100B and 100BL:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 220A</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 220AL</td>
<td>Mechanics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 220B</td>
<td>Electricity and Magnetism</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 220BL</td>
<td>Electricity and Magnetism Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 220C</td>
<td>Light, Heat, and Sound</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 220CL</td>
<td>Light, Heat, and Sound Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

(The PHYS 220 series may substitute for the PHYS 100 series for the other Concentrations.)

5 Total units for core breadth courses will vary from 37-44 units, depending on the actual number of course substitutions which are made.
Depth requirement, and vice versa.

**UPPER DIVISION**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 307</td>
<td>Petrology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 310</td>
<td>Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 322</td>
<td>Introductory Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 341</td>
<td>Sedimentation and Stratigraphy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 342</td>
<td>Field Studies in Stratigraphy</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 345</td>
<td>Geology of California</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 351</td>
<td>Fundamentals of Paleontology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 370</td>
<td>Computer Applications in Geology</td>
<td>2</td>
</tr>
<tr>
<td>ESCI 400</td>
<td>Changes in Global Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 311</td>
<td>Atmosphere</td>
<td>3</td>
</tr>
</tbody>
</table>

Total (Depth units) .............................................................. 38

**GRAND TOTAL** ....................................................................... 75-82

**CONCENTRATION IN PHYSICS — DEPTH COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150B</td>
<td>Mathematical Analysis II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Mathematical Analysis III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 280</td>
<td>Applied Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>COMP 106, 106L</td>
<td>Computing in Engr. &amp; Science</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 301</td>
<td>Analytical Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 311</td>
<td>Electromagnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 362AB</td>
<td>Advanced Measurements</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 370</td>
<td>Modern Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 372</td>
<td>Modern Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 389</td>
<td>Mathematical Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 431</td>
<td>Thermodynamics &amp; Statistical Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 464*</td>
<td>Experimental Physics</td>
<td>2</td>
</tr>
</tbody>
</table>

* This requirement may not be fulfilled by PHYS 464/D/DL, Experimental Physics (Astrophysics), if PHYS 464/D/L has already been used as a substitution for ASTR 154L under Breadth Study.

**UNIT TOTALS FOR CONCENTRATION IN PHYSICS**

<table>
<thead>
<tr>
<th>Category</th>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breadth</td>
<td>44 units</td>
</tr>
<tr>
<td>Depth</td>
<td>39 units</td>
</tr>
<tr>
<td>Entire program</td>
<td>83 units</td>
</tr>
</tbody>
</table>

**SOCIAL SCIENCE**

**SUBJECTS COMMONLY TAUGHT**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 150, 151</td>
<td>Western Civilization</td>
<td>6</td>
</tr>
<tr>
<td>HIST 270, 271</td>
<td>Survey of U.S. History</td>
<td>6</td>
</tr>
</tbody>
</table>

One lower division course selected from

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 145</td>
<td>History of Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 161</td>
<td>History of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 185</td>
<td>History of the Middle East</td>
<td>3</td>
</tr>
<tr>
<td>HIST 191</td>
<td>History of Eastern Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 192</td>
<td>History of Eastern Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 488</td>
<td>California History</td>
<td>3</td>
</tr>
</tbody>
</table>

Choice of Two courses from the 400 series of U.S. History courses with one focusing on the twentieth century ......... 3

One course focusing on gender or diversity ............... 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 210</td>
<td>A History of the Jewish People</td>
<td>4</td>
</tr>
<tr>
<td>HIST 349</td>
<td>Women in American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 350</td>
<td>History of Women</td>
<td>3</td>
</tr>
<tr>
<td>HIST 355</td>
<td>History of Slavery in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 369</td>
<td>History of the American Indian</td>
<td>3</td>
</tr>
<tr>
<td>HIST 475</td>
<td>Women in Modern U.S. History: 1920-present</td>
<td>3</td>
</tr>
<tr>
<td>HIST487</td>
<td>A History of the Mexican American</td>
<td>3</td>
</tr>
<tr>
<td>HIST489</td>
<td>A History of the African-American People</td>
<td>3</td>
</tr>
</tbody>
</table>

One upper division course on the history of Africa, Asia, the Middle East or Latin America................................. 3

One upper division Social Science Research Seminar ............. 3

Total ..................................................................................... 36

**BREADTH AND PERSPECTIVE COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 300</td>
<td>Economic Principles &amp; Problems</td>
<td>3</td>
</tr>
<tr>
<td>POLS 155</td>
<td>American Political Institutions</td>
<td>3</td>
</tr>
<tr>
<td>POLS 156</td>
<td>European &amp; Comparative Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 225</td>
<td>Elements of International Relations</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 150</td>
<td>World Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 321</td>
<td>U.S. Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Geography of California</td>
<td>3</td>
</tr>
</tbody>
</table>

Choice of one course in behavioral science (anthropology, psychology or sociology) ........................................... 3

Total Units ............................................................................ 21

**GRAND TOTAL** ....................................................................... 57

**ADMISSION TO THE CREDENTIAL PROGRAM FOR INTEGRATED TEACHER EDUCATION PROGRAM STUDENTS** (Pending final approval).

To secure admission, the candidate must submit an application packet containing:

1. The Application to the Credential Program. The application will be used to establish a file for the candidate.

2. Recommendations from two persons who are knowledgeable about the candidate as a result of the candidate's participation in field work as-signed through the Liberal Studies Seminars. These may be from teachers or university faculty.

3. Original transcripts from all institutions of higher education attended including California State University, Northridge. These transcripts are required independently of other transcripts which may be required for admission to the University. The grade point average cannot be computed without these transcripts. In addition, after receiving admission, candidates must submit transcripts of all coursework taken at other institutions immediately after the end of each semester's coursework. A candidate for admission to the credential program must have a G.P.A. of 2.70 for all classes taken after the freshman year. At the time of printing, this process is currently under review. Please check with the Credential Preparation Office for revised requirements.

In order to be recommended for a credential, the candidate must have an overall G.P.A. of 2.70 since admission to the credential program and a 3.00 G.P.A. for all professional education coursework.

4. Proof of freedom from tuberculosis.

5. A Statement of Objectives describing reasons for desiring entry into the teaching profession.

6. A permanent verification card showing passage of the California Basic Educational Skills Test (CBEST) or verification that CBEST has been taken.

7. Verification of completion of early field experience (through Liberal Studies Seminars).

8. Certificate of Clearance — Submit completed form 41-CIC (blue) with a CERTIFIED CHECK OR MONEY ORDER for $30.00 made payable to the Commission on Teacher Credentialing. (The thirty dollars will apply toward your initial credential fee. For this reason, the Credential Preparation Office will retain the Certificate.) AND Verification of Fingerprints — Submit a copy of the Livescan Service form completed by the applicant as well as the Livescan operator. Live-scan fingerprinting can be completed at the CSUN Public Safety Office located at 9757 Zelzah Avenue,
Building #14, in the lobby. Call the Office (818/677-2113) to determine current fees and times for fingerprinting. When the file has been completed, the candidate will be reviewed by faculty members affiliated with the Integrated Teacher Education Program. The candidate will be evaluated on the basis of academic achievement, commitment to teaching and ability to communicate. When the Faculty Committee reaches a decision regarding the admission of the candidate, the candidate will be notified in writing by the Credential Preparation Office. If admitted, the candidate will be issued a letter indicating admission to the teacher education program. Regulations permit the University to admit a candidate on the basis of some exceptional qualification possessed by the candidate. If you are denied admission on a regular basis, you will be given information concerning admission on an exceptional basis. As part of the admission process, an evaluation of the candidate’s previous coursework will be made automatically and mailed to the candidate along with the admission letter.

### MULTIPLE SUBJECT & EDUCATION SPECIALIST (MILD/MODERATE DISABILITIES)

**CREDENTIAL PROGRAM COURSE & EXAMINATION REQUIREMENTS**

#### A. REQUIRED PRIOR TO ADMISSION:

1. Verification of basic literacy in reading, writing and mathematics as evidenced by passage of the California Basic Educational Skills Test (CBEST). Conditional admission may be granted prior to passage of the exam but passage is required prior to application for student teaching.

#### B. REQUIRED PRIOR TO STUDENT TEACHING:

The following courses must be completed or in progress during the semester of application for student teaching.

- Fifteen units of professional preparation courses for the Multiple Subject Credential Program, including three observation/participation assignments of 20 hours each. At least one assignment must be in a limited English proficient (LEP) classroom. The observation/participation assignments are attached to:
  - EPC 314 Psychological Foundations K-12..............3
  - EED 477A Literacy Instruction for Diverse Learners A..............3
  - EED 477B Literacy Instruction for Diverse Learners B..............3

- Eighteen units of professional preparation courses for the Education Specialist Credential (Mild/Moderate Disabilities) Program, including two observation/participation assignments of 20 hours each. The observation/participation assignments are attached to:
  - EED 477A Literacy Instruction for Diverse Learners A..............3
  - EED 477B Literacy Instruction for Diverse Learners B..............3
  - ENG 305 .................................................................3
  - MATH 210, Basic Number .02Concepts ......................3
  - Passage of ELM (Elementary Level Math) exam or exemption from ELM is required by the university prior to enrollment in any math course.
  - Verification of subject matter knowledge.
  - GPA -- must maintain 2.70 overall since admission to the credential program and 3.0 in education courses. A grade of “C or better” is required in all courses.

#### C. ADDITIONAL REQUIREMENTS:

The following requirements may be completed prior to or with student teaching/student teaching seminar:

- ENG 428 Children’s Literature ........................................3
- EED 477B Literacy Instruction for Diverse Learners B..............3

Requires 20 hours of observation/participation in a school.

- Concentration 4 (capstone course).................................3
- KIN 470 P.E. for Children ........................................3
- Multiple Subject Credential Only
  - ELPS 303 Education in American Society .........................3
  - Requires 20 hours of observation/participation in a school.
- Education Specialist Credential
  - (Mild/Moderate Disabilities) Only
- Education Specialist Credential
  - (Mild/Moderate Disabilities) Only ....................................3
  - SPED 505MM Curriculum & Instruction in Special Education ..............3
- Knowledge of the Constitution of the United States -- CHS 260, PAS 161, or POLS 155.........................3
- Passage of Reading Instruction Competence Assessment (RICA). Consult the Credential Preparation Office for details.
- For CLAD certification -- experience studying a second language. Consult the Credential Preparation Office for details.
- A baccalaureate degree.

#### D. STUDENT TEACHING:

Applications for student teaching must be submitted during the summer prior to the semester in which the student teaching is to be done. As part of the application, candidates must obtain from the Commission on Teacher Credentialing a Certificate of Clearance from criminal convictions if not already submitted. Verification of passage of all appropriate exams and/or department clearance is required prior to acceptance of your student teaching application. It is important because of limited testing dates that you complete all required exams as soon as possible to avoid delay in student teaching.

- EED/SPED 578A Student Teaching in the Elementary School ..............3
- EED/SPED 579 Student Teaching Seminar ................................1
- Multiple Subject Credential Only
  - EED 578D Student Teaching in the Elementary School .6
  - EED 579 Student Teaching Seminar ................................1
- Education Specialist Credential
  - (Mild/Moderate Disabilities) Only
    - SPED 580MM Advanced Specialist Fieldwork with Learners who have Mild/Moderate Disabilities ..........6
    - SPED 579 Student Teaching Seminar ................................1

Performance in student teaching must be a “B” grade to receive “credit. Multiple Subject Credential Only -- One of the student teaching assignments must be in a LEP classroom. Education Specialist Credential (Mild/Moderate Disabilities) Only -- One of the student teaching assignments must be in the candidate's area of specialization.

#### E. ACADEMIC STANDARD FOR COMPLETION OF THE PROGRAM:

GPA -- must maintain 2.70 overall since admission to the cre-
credential program and 3.0 in all education courses. A grade of "C or better" is required in all courses.

SPECIALIST INSTRUCTION & SERVICE CREDENTIAL PROGRAMS
“Specialist instruction” means any specialty requiring advanced preparation or special competence. The minimum requirements for specialist instruction credentials are (a) a valid teaching credential; and (b) such specialized and professional preparation as the Commission may require. Preparation programs which result in concurrent issuance of a specialist credential and a teaching credential are available in certain fields. A services credential permits its holder to perform a specific service in the public schools of California. The programs for the specialist credential and the services credential are described below.

CONCURRENT SPECIALIST AND SERVICE PROGRAMS
WITH MASTER’S PROGRAMS
Many academic departments offer master’s programs developed to be taken concurrently with specialist and service credential programs. In no case does a master’s program satisfy all of the requirements for a credential or substitute for the credential. Nor does completion of a credential satisfy the requirements for a master’s degree. Admission to credential programs is through the Credential Preparation Office; admission to master’s programs is through the academic department offering the program. Note that many departments will not accept more than 12 semester units completed prior to admission to a graduate program. Note also that admission to a credential program does not routinely grant admission to a master’s program. Likewise admission to a master’s program does not grant admission to a credential program.

READING AND LANGUAGE ARTS SPECIALIST
ADMISSION
Admission is based on a variety of factors dependent upon the candidate’s personal circumstances as he/she seeks to enter the program. Candidates must have successfully completed a basic teaching credential program and have earned a satisfactory grade point average (2.75 at a time of admission with a 3.0 average for all coursework completed after admission).

Prior to application for the specialist credential, the applicant must have three years of teaching experience. The Reading and Language Arts Specialist Credential Program is designed for candidates who wish to specialize in the field of reading/language arts and become effective literacy leaders for California’s multicultural population. Candidates completing the Reading and Language Arts Specialist Credential Program will be individuals who are prepared to play a leadership role at the school site, the school district, or the county office of education.

The candidate completing the Reading and Language Arts Specialist Credential Program will at the exit level have developed the following skills, attitudes, and knowledge:

1. Ability to assist and support classroom teachers through demonstration teaching and group and individual-specific curriculum planning; and to assess the use of effective teaching strategies for the purpose of assisting teachers in creating literate learning environment.
2. Ability to provide leadership in the selection, adaptation and use of instructional materials, including the textbook selection process.
3. Ability to plan and implement professional development activities, including inservice education programs for teachers, administrators, school board members, parents and members of the community.
4. Ability to assist teachers in assessing the academic needs, interests, attitudes and achievement of students, including those of linguistically diverse students, and then utilizing the assessment to make decisions about appropriate instruction in reading, writing, speaking and listening.
5. Ability to provide direct services to students and to guide students to attain a level of independent reading and writing that includes comprehension and critical thinking skills.
6. Ability to work with the school, the school district and/or the county office of education to design goals, objectives and learning activities; and to assist in the evaluation of program effectiveness and in making the necessary modifications.

ASSESSMENT OF NEEDS
Upon entry into the program each candidate will be assessed as to his/her abilities and needs. Assessment will be made through a personal interview with an academic advisor from the field of reading/language arts. The assessment will include the following:
1. Check of the required core of minimum competencies.
2. Comparison of previous coursework taken at other institutions with similar courses offered at CSUN.
3. Preparation of a contract of courses to be completed for the Reading and Language Arts Specialist Credential based on needs revealed by the assessment.

CORE COURSES:
Elementary and Secondary Education (crosslisted)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EED 616</td>
<td>Microcomputers in Language Arts</td>
<td>3</td>
</tr>
<tr>
<td>SED 617</td>
<td>Microcomputers in the Secondary Reading/Language Arts Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EED 621</td>
<td>Language, Literacy, and Culture Across the Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EED 633</td>
<td>Seminar in Elementary School Language Arts Education</td>
<td>3</td>
</tr>
<tr>
<td>SED 620</td>
<td>Methods, Materials &amp; Approaches in the Teaching of Reading</td>
<td>3</td>
</tr>
<tr>
<td>SED 625ENG</td>
<td>Theory &amp; Research in Teaching Secondary School English</td>
<td>3</td>
</tr>
<tr>
<td>SPED 670</td>
<td>Reading Processes</td>
<td>3</td>
</tr>
</tbody>
</table>

Other requirements include:
- 82 CREDENTIAL PROGRAMS 2000-2002
ENGL 405 Language Differences & Language Change.................................3
Elective: (in consultation with advisor) .................................................3

RESOURCE SPECIALIST CERTIFICATE

ADMISSION REQUIREMENTS

1. Possession of a valid California Special Education credential other than an emergency or intern credential.
2. Possession of valid California basic teaching credential.
3. Verification of two or more years of successful teaching experience including both regular and special education.
4. Grade point average of 2.75 in the last 60 semester units and grade point average of 3.0 in professional education courses.
5. Two letters of recommendation from immediate supervisors.

COURSE REQUIREMENTS (9 UNITS)

A Resource Specialist Certification Plan must be completed with a department Resource Specialist (RS) sponsor before completion of the first course. The above courses shall not be taken as part of a special education credential program. If any of the above courses have been taken prior to applying to this program or waived, a department RS sponsor will provide a list of acceptable courses to meet the 9-unit requirement. Students entering the program who can demonstrate SPED 610 competencies may enroll in SPED 620 in lieu of SPED 610 with RS sponsor approval.

SPED 610 Program Planning for Exceptional Children and Youth...................3
SPED 611 Consultation Processes in Education.........................................2
SPED 611L Consultation & Communication Lab in Education........................1
SPED 612 Design and Development of Indirect Services ............................2
SPED 612L Design & Development of Indirect Services in Special Education Lab ........1

RECOMMENDED ADDITIONAL REQUIREMENTS

RS sponsors will work with students individually to determine other coursework needed to strengthen specific competencies.

EXIT REQUIREMENTS

1. In addition to admission requirement #3 above, verification of 2 additional semesters of teaching experience.
2. Demonstration of competencies and a GPA of 3.0 in courses listed above.
3. Possession of a valid California Special Education credential other than an emergency or intern credential.

PRELIMINARY ADMINISTRATIVE SERVICES CREDENTIAL PROGRAM

Legislation has established the Administrative Services Program as a two-stage program: a Preliminary Administrative Services Credential Program and a Professional Administrative Services Credential Program. The program described below leads to the Preliminary Credential.

The Preliminary Administrative Services Credential Program is a graduate program designed for persons who wish to hold an administrative or supervisory position at either a school campus or district-wide level. The services credential with a specialization in administrative services authorizes the holder to serve as a superintendent, associate superintendent, deputy superintendent, principal, assistant principal, supervisor, consultant, coordinator, or in an equivalent or intermediate level administration position. Minimum legal requirements for this credential include all of the following:

a. Possession of a valid California teaching credential.
b. Minimum of three years of successful full time classroom teaching experience.
c. A program of specialized and professional preparation.
d. Passage of the California Basic Educational Skills Test (CBEST).

ADMISSION

Admission is based on a variety of factors including the following: grade point average of 2.50 or better; satisfactory test score on the aptitude test of the Graduate Record Examination or Miller’s Analogy if undergraduate GPA is below 3.0; successful completion of the California Basic Educational Skills Test (CBEST); recommendation by a practicing school administrator; possession of a valid California teaching credential.

ADMINISTRATIVE FIELD WORK

Administrative Fieldwork is the capstone experience in the Administrative credential program. Upon completion of all course work the student is considered for admission to the fieldwork program. Such admission is contingent upon: achieving a “B” (3.0) grade point average in all prescribed courses, having the endorsement of the administrator of the school where the student is teaching, and being adjudged a desirable administrative candidate.

The “contract” which the sponsoring administrator executes with the Educational Leadership and Policies Studies Department commits him/her to providing a definite program of administrative experiences for the student. The evaluation check sheet, also completed by the sponsoring administrator prior to admission to fieldwork, guides the University supervisor in directing the student into experiences which will strengthen his/her weaknesses.

Upon successful completion of a full year of administrative fieldwork the student is normally certified as being qualified for an administrative service credential.

COURSE REQUIREMENTS

ELPS 650 Leadership in Administration and Curriculum Development................3
ELPS 651 Research in Educational Administration and Supervision ................3
ELPS 651 Research in Educational Administration and Supervision ................3
ELPS 661 Principles and Practices of Curriculum Development.......................3
ELPS 662 Administration and Supervision of Teaching Personnel and Instruction ....3
ELPS 663 School Law in California.....................................................3
ELPS 664 Business and Financial Aspects of School Administration ..................3
ELPS 665 Organization and Administration of Elementary Education .................3
ELPS 666 Organization and Administration of Secondary Education ..................3
ELPS 669 Organization and Administrative of Special Education ......................3
ELPS 672 Public School Personnel Administration ....................................3
ELPS 676 School-Community Relations..................................................3
ELPS 688 AB Fieldwork in Educational Administration .............................6

TOTAL: 33 UNITS
ACADEMIC STANDARD FOR COMPLETION OF THE PROGRAM

G.P.A. - Must maintain 2.75 overall since admission and 3.0 in all education courses. A grade of “C or better” is required in all courses.

PROFESSIONAL ADMINISTRATIVE SERVICES CREDENTIAL PROGRAM

This is a graduate program designed for persons who hold an administrative or supervisory position at either a campus or district-wide level.

ADMISSION

Possession of a valid credential authorizing services as an administrator. Grade point average acceptable for admission to the University as a graduate student. Verification of employment in a position requiring an administrative credential.

Program Design, Field Experiences and Additional Program Requirements

AN INDIVIDUALIZED PROGRAM PLAN shall be jointly developed for each candidate by the Educational Leadership and Policies Studies Department in consultation with the candidate and the candidate’s employing school district.

The approved plan shall become a part of the candidate’s department file and may be revised with the approval of the candidate, the candidate’s employing district and the Educational Leadership and Policies Studies Department.

REQUIRED COURSES (19 UNITS)

- ELPS 685 Induction Plan ........................................... 2
- ELPS 670 Seminar in Contemporary Problems in Educational Administration ........................................... 3
- ELPS 673 Leadership for Information Management and Change ........................................... 3
- ELPS 683 Ethics, Morals, and Values for Educational Leaders ........................................... 3
- ELPS 679 Organization and Administration of Multilingual & Multicultural Programs .................. 3
- ELPS 689 Practicum in Educational Administration ........ 3
- ELPS 688 Assessment of Candidate Competency ........... 2

ELECTIVES (8 UNITS)

Pre-approved by Faculty Advisor from below.

The electives are individually designed experiences by the candidate in collaboration with faculty member and designated mentor. The elective credits may be satisfied by non-university based activities and/or electives from this or other departments.

- ELPS 687A Selected Topics ........................................... 1
- ELPS 687B Selected Topics ........................................... 2
- ELPS 687C Selected Topics ........................................... 3
- ELPS 687D Selected Topics ........................................... 4
- ELPS 687E Selected Topics ........................................... 5

or

NON-UNIVERSITY BASED ACTIVITIES

(15 Clock Hours = One Credit Unit) and/or electives from other departments

Total .................................................................................... 27 units

Requirements for the Professional Credential:

a. Possession of a valid administrative credential,
b. verification of completion of a minimum of two years of successful full-time experience in a position requiring the Administrative Services Credential, and
c. the recommendation of a California college or university with a Commission-approved program verifying completion of advanced study including appropriate field experience or internship.

TERM OF THE PROFESSIONAL CREDENTIAL is determined by the expiration date of the basic prerequisite credential, is renewable by completion of professional growth activities.

CLINICAL-REHABILITATIVE SERVICES CREDENTIAL

The Clinical-Rehabilitative Services Credential (Language, Speech and Hearing Services and Audiology) is designed for persons who wish certification to serve exceptional individuals as language, speech, and hearing specialists and/or as audiologists.

ADMISSION

Admission to the credential program requires admission to the Master’s program in the Department of Communication Disorders. Applications are accepted once a year for fall semesters only. Applicants for graduate status must possess either a baccalaureate degree in Communicative Disorders or 30 semester units of prerequisite courses, the Graduate Record Examination or Miller’s Analogy, recommendations, transcripts and the departmental application.

THE PRE-CLINICAL PHASE

For Students who wish to obtain the credential but lack the required baccalaureate degree in Communication Disorders and Sciences for admission to graduate studies, the first step in qualifying for admission is to complete the Pre-Clinical Phase courses. Refer to the Department of Communication Disorders and Sciences’ programs, page 197 to 203, for description of the requirements for the Pre-Clinical and Clinical Phases of instruction. Note that all entering undergraduate and post-baccalaureate undeclared majors are regarded as Pre-Clinical Phase students. All majors, including credential candidates, are required to have academic advisement by the Department during pre-registration activities each semester.

In order for a student to qualify for admission to Clinical Privileges (Clinical Phase), the Pre-Clinical Phases courses must be completed with a grade of B or better in each course. The student then submits a formal application for Clinical Privileges to the Department. Evaluation for Clinical Privileges includes an assessment of academic and clinical potential, supported by letters of recommendation, academic transcripts, and satisfactory completion of the Pre-Clinical Phase courses. Application forms and instructions are found in the Communicative Disorders Department Office.

As soon as the candidate is accepted for Clinical Privileges (Clinical Phase), the student is eligible to enroll in the following courses:

- EPC 314 Psychological Foundations ......................... 3
- FES 330 Child Growth and Development .................. 3

REQUIREMENTS FOR GOOD STANDING

Once admitted to Clinical Privileges (clinical Phase), undergraduate and graduate majors in Communicative Disorders must continue to meet the standards for Clinical Privileges as described by the Department of Communicative Disorders on page 197. Additionally, once admitted, all candidates must maintain an overall 3.00 GPA in the major. Failure to maintain good standing may result in dismissal from the credential program.

GRADUATE REQUIREMENTS FOR THE CREDENTIAL

The Clinical-Rehabilitative Services Credential (Language, Speech and Hearing Services and Audiology) requires completion of the Master of Science degree in
Communicative Disorders, with the appropriate option in either Speech-Language Pathology or Audiology. In order to take the advanced (500 and 600-level) courses for the Master’s degree, a student must be admitted to Classified Graduate status by the Department. Consult with the Department of Communicative Disorders for admission requirements, deadlines, and forms. Note that admission to Classified Graduate status by the Department requires completion of the undergraduate coursework described in the departmental section of this catalog.

In addition to prerequisite courses and the Master’s degree, the following courses are required for the credential:

**CORE CURRICULUM:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 470</td>
<td>The Language, Speech and Hearing Specialist in the School System</td>
</tr>
<tr>
<td>CD 485</td>
<td>Computer Applications in Communicative Disorders</td>
</tr>
<tr>
<td>EPC 314</td>
<td>Psychological Foundations</td>
</tr>
<tr>
<td>FES 330</td>
<td>Child Growth and Development I</td>
</tr>
<tr>
<td>SPED 438CD</td>
<td>Student Teaching in Language, Speech and Hearing and Audiology</td>
</tr>
</tbody>
</table>

**FOR SPEECH-LANGUAGE PATHOLOGY ONLY:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 480</td>
<td>Early Speech-Language Intervention</td>
</tr>
<tr>
<td>CD 672A</td>
<td>Advanced Clinical Practice in Speech Pathology and Audiology I and II</td>
</tr>
<tr>
<td>CD 668</td>
<td>Advanced Diagnostics in Speech and Language Pathology</td>
</tr>
</tbody>
</table>

**OTHER REQUIREMENTS:**

All credential candidates must satisfactorily complete the CBEST and the Upper Division Writing Proficiency Examination.

**SPECIAL CLASS AUTHORIZATION (APHASIC):**

A program by which a candidate for the Clinical-Rehabilitative Services (Language, Speech and Hearing) Credential may add the Special Class Authorization (Aphasia) has been developed at CSUN and been approved by the Commission on Teacher Credentialing.

The following courses are required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 478</td>
<td>Severe Language Handicapped and/or Aphasic Pupils in the Classroom</td>
</tr>
<tr>
<td>E ED 520</td>
<td>Teaching Reading in the Elementary School</td>
</tr>
<tr>
<td>E ED 640</td>
<td>Elementary School Mathematics Education 2</td>
</tr>
<tr>
<td>MATH 210</td>
<td>Basic Number Concepts</td>
</tr>
<tr>
<td>SPED 438CDA</td>
<td>Student Teaching in Severe Language Handicapped/Aphasic</td>
</tr>
</tbody>
</table>

Total: 15 units

**SCHOOL NURSE SERVICES CREDENTIAL (SCHOOL NURSE):**

The School Nurse Services Credential Authorizing Service as a School Nurse is designed to meet the guidelines established by the Teacher Preparation and Licensing Law of 1970. The program is open to the Registered Nurse who already has a baccalaureate degree as well as the undergraduate who wishes to obtain the B.S. degree at CSUN.

**PRELIMINARY HEALTH SERVICE CREDENTIAL (SCHOOL NURSE):**

A preliminary credential authorizing service for five years as a School Nurse can be recommended by the Credential Preparation Office for any candidate who:

1. Holds a California Registered Nurse License
2. Has an acceptable baccalaureate degree and
3. Has admission to the CSUN School Nurse program

**PROFESSIONAL CLEAR CREDENTIAL:**

A professional clear credential will be recommended by the Credential Preparation Office when the candidate has met these three requirements:

1. Possession of a preliminary School Nurse credential
2. Two years or the equivalent of successful service as a school nurse (If Preliminary School Nurse Credential was issued prior to July 1, 1981 experience need not be verified.)
3. Completion of the CSUN School Nurse program

To qualify for this credential, the candidate must have completed a minimum of 24 semester units of post graduate work. If the candidate has met all of the required competencies but does not have 24 post graduate units, then additional courses must be selected from the approved elective list with prior approval of the school nurse credential advisor.

**ADMISSION:**

Admission is based on a variety of factors including recommendations, possession of a valid registered nurse license in the State of California, and grade point average.

**COURSEWORK:**

A minimum of twenty-four (24) units beyond the bachelor’s degree is required. Students who have completed the required coursework may complete elective course(s) with consent of the advisor to meet this requirement.

**ADMISSION:**

A minimum of twenty-four (24) units beyond the bachelor’s degree is required. Students who have completed the required coursework may complete elective course(s) with consent of the advisor to meet this requirement.

**COMD 496NS: Audiology and Hearing Conservation for School Nurses**

**SCHOOL COUNSELING CREDENTIAL**

The School Counseling Credential Authorizing Service as a Counselor is intended for persons who desire to work as counselors in a public-school setting. On completion of the program, the student receives the Pupil Personnel Services: School Counseling Credential. Work toward this program is offered by the Department of Educational Psychology and Counseling in the School of Education.

**ADMISSION:**

The criteria for admission is dependent upon the candidate’s personal circumstances and the program to which the candidate seeks entrance. Admission is based upon a variety of factors including recommendations, grade point average,
## Admission

Admission criteria vary for the option to which the candidate seeks admission. Both options require satisfactory recommendations, prerequisite courses, grade point average, statement of career objectives, and experience with school-age children. Consult the director of each option for further details.

### Psychology Option

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 606 Seminar in Exceptionality</td>
<td>4</td>
</tr>
<tr>
<td>PSY 601 Psychological Service Systems</td>
<td>3</td>
</tr>
<tr>
<td>PSY 622A Research &amp; Statistical Concepts in Psychological Services</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 625A Psychological Testing (Individual)</td>
<td>4</td>
</tr>
<tr>
<td>PSY 625B Psychological Testing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 655AB Field Work in Psychological Services (1 day per week)</td>
<td>2</td>
</tr>
<tr>
<td>PSY 655BC Field Work in Psychological Services (1 day per week)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 660 Seminar in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PSY 660T Tutorial in Counseling</td>
<td>1</td>
</tr>
<tr>
<td>PSY 683 Seminar in Human Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

## Course Requirements

Department of Educational Psychology & Counseling

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPC 430 Development &amp; Learning</td>
<td>3</td>
</tr>
<tr>
<td>EPC 451 Fundamentals of Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

### School Psychology Credential

The school psychology program is designed for persons wishing to become school psychologists in public schools. On completion of the program, the student receives the Pupil Personnel Services: School Psychology Credential. There are two options—one within the Department of Psychology (School of Social and Behavioral Sciences) and one within the Department of Educational Psychology and Counseling (School of Education).

### Admission

Admission criteria vary for the option to which the candidate seeks admission. Both options require satisfactory recommendations, prerequisite courses, grade point average, statement of career objectives, and experience with school-age children. Consult the director of each option for further details.

### Psychology Option

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 606 Seminar in Exceptionality</td>
<td>4</td>
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<tr>
<td>PSY 622A Research &amp; Statistical Concepts in Psychological Services</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 625A Psychological Testing (Individual)</td>
<td>4</td>
</tr>
<tr>
<td>PSY 625B Psychological Testing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 655AB Field Work in Psychological Services (1 day per week)</td>
<td>2</td>
</tr>
<tr>
<td>PSY 655BC Field Work in Psychological Services (1 day per week)</td>
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<tr>
<td>PSY 660 Seminar in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PSY 660T Tutorial in Counseling</td>
<td>1</td>
</tr>
<tr>
<td>PSY 683 Seminar in Human Relations</td>
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</table>

### Educational Psychology Option

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPC 430 Development and Learning in Early Childhood Education</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EPC 612 Advanced Study in Child and Adolescent Development</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EPC 451 Counseling and Guidance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EPC 600 Educational Statistics for Research and Measurement</td>
<td>3</td>
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</tbody>
</table>

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPC 601 Individual and Group Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EPC 602 Research Principles</td>
<td>3</td>
</tr>
<tr>
<td>EPC 611 Seminar in Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EPC 643 Counseling in Cross-Cultural Settings</td>
<td>3</td>
</tr>
<tr>
<td>EPC 655 Seminar in Counseling Theory &amp; Practice</td>
<td>3</td>
</tr>
<tr>
<td>EPC 657A Seminar in Career Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>EPC 658 Seminar in Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EPC 658L Group Counseling Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EPC 659A Counseling Practicum Communication</td>
<td>3</td>
</tr>
<tr>
<td>EPC 659B Counseling Practicum Skills</td>
<td>3</td>
</tr>
<tr>
<td>EPC 659E-F Fieldwork in School Psychology</td>
<td>3-3</td>
</tr>
<tr>
<td>EPC 659G-H Internship in School Psychology</td>
<td>3-3</td>
</tr>
<tr>
<td>EPC 663A-B Clinical and Psychometrics Assessment Techniques</td>
<td>3-3</td>
</tr>
<tr>
<td>EPC 664 Case Study of the Atypical Child</td>
<td>3</td>
</tr>
<tr>
<td>EPC 671 Law and Ethics for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>EPC 680 Seminar in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EPC 660 Program Planning for Exceptional Children and Youth</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** | 52-61 units

### Internship Programs

Internships are half year through the school psychology program, the candidate is eligible to secure an intern credential which will permit payment for the internship work performed in the schools and related to the coursework described above while completing remainder of program. Contact the program coordinators for details.
COURSES OF STUDY
## COURSES OF STUDY

### COURSE NUMBERING SYSTEM

Beginning with the Fall 1992 semester, the following course numbering system will be used:

- **001-099** Courses which carry no credit toward a degree or credential. Generally remedial or subcollegiate-level in content.
- **100-199** Lower division, introductory courses which constitute the beginning of college work in a major or in general education and which require no previous college experience. Open to upper division students.
- **200-299** Lower division courses of freshman and sophomore level. Open to upper division students. Constitue intermediate step between beginning and advanced work in a given field; general education courses which require previous college experience; courses which develop advanced skills; courses with specific prerequisites.
- **300-399** Upper division courses, normally taken by junior and senior students, which do not give credit toward a master’s degree. Sophomore students may enroll in 300 level courses, but freshmen may not without special permission. Advanced courses constructed upon lower division work; traditional survey courses whose breadth tends to preclude depth; upper division prerequisites to specialized work in a major; general education courses for upper division students; core courses in professional education; the highest number for courses primarily concerned with development of skills. These courses normally constitute the bulk of upper division course offerings.
- **400-499** Upper division courses which may, with approval, give credit toward a master’s degree if taken as a postgraduate. Limited to more advanced courses, normally taken by senior and graduate students, which have content that requires a high degree of intellectual maturity on the part of the student.

<table>
<thead>
<tr>
<th>Course Numbering</th>
<th>Course Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-099</td>
<td>Remedial/Remedial</td>
</tr>
<tr>
<td>100-199</td>
<td>Introductory</td>
</tr>
<tr>
<td>200-299</td>
<td>Lower Division</td>
</tr>
<tr>
<td>300-399</td>
<td>Upper Division</td>
</tr>
<tr>
<td>400-499</td>
<td>Graduate</td>
</tr>
</tbody>
</table>

### COURSES OF STUDY

#### I. Course Numbering System and Course Types

<table>
<thead>
<tr>
<th>Course Numbering</th>
<th>Course Categories</th>
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<td>400-499</td>
<td>Graduate</td>
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#### II. Degree Programs and Courses

<table>
<thead>
<tr>
<th>Course Numbering</th>
<th>Course Categories</th>
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<td>001-099</td>
<td>Remedial/Remedial</td>
</tr>
<tr>
<td>100-199</td>
<td>Introductory</td>
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<td>400-499</td>
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Beginning with the Fall 1992 semester, the following course numbering system will be used:

- **001-099** Courses which carry no credit toward a degree or credential. Generally remedial or subcollegiate-level in content.
- **100-199** Lower division, introductory courses which constitute the beginning of college work in a major or in general education and which require no previous college experience. Open to upper division students.
- **200-299** Lower division courses of freshman and sophomore level. Open to upper division students. Constitue intermediate step between beginning and advanced work in a given field; general education courses which require previous college experience; courses which develop advanced skills; courses with specific prerequisites.
- **300-399** Upper division courses, normally taken by junior and senior students, which do not give credit toward a master’s degree. Sophomore students may enroll in 300 level courses, but freshmen may not without special permission. Advanced courses constructed upon lower division work; traditional survey courses whose breadth tends to preclude depth; upper division prerequisites to specialized work in a major; general education courses for upper division students; core courses in professional education; the highest number for courses primarily concerned with development of skills. These courses normally constitute the bulk of upper division course offerings.
- **400-499** Upper division courses which may, with approval, give credit toward a master’s degree if taken as a postgraduate. Limited to more advanced courses, normally taken by senior and graduate students, which have content that requires a high degree of intellectual maturity on the part of the student.

#### COURSES OF STUDY

<table>
<thead>
<tr>
<th>Course Numbering</th>
<th>Course Categories</th>
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</thead>
<tbody>
<tr>
<td>001-099</td>
<td>Remedial/Remedial</td>
</tr>
<tr>
<td>100-199</td>
<td>Introductory</td>
</tr>
<tr>
<td>200-299</td>
<td>Lower Division</td>
</tr>
<tr>
<td>300-399</td>
<td>Upper Division</td>
</tr>
<tr>
<td>400-499</td>
<td>Graduate</td>
</tr>
</tbody>
</table>
part of the student. Should also meet one or more of the following specific criteria: (a) have specific prerequisites at the 100-200 level; (b) be supported by a substantial body of 100-300-level offerings from which a student could normally be expected to gain adequate background for the 400-level course; (c) be restricted in scope, aiming at depth rather than breadth.

500-599 Courses intended primarily for graduate students which may be taken by advanced undergraduate students for baccalaureate credit. Content requires significant independent thinking on the part of the student and offers opportunity for research. Should also meet one or more of the following criteria: (a) have specific prerequisites at the 400 level; (b) be supported by a substantial body of 300-400-level offerings from which a student could normally be expected to gain adequate background for the 500-level course; (c) be especially designed for a graduate curriculum (e.g., an introductory course to current topics in the field).

600-699 Courses limited to graduate students. Intended mainly for masters and credential programs; may be taken as part of a doctoral degree with approval.

700-799 Courses limited to graduate students. Intended mainly for doctoral programs; may be taken as part of a master’s degree with appropriate approval.

800-899 Courses specifically designed for professional groups seeking vocational improvement or career advancement. Credit for these courses does not apply to degrees or credentials at this university.

(Numbers in parentheses following course title indicate semester unit total.)

COURSE TYPES
For More information on courses, read “Enrollment Regulations-Appendix A” at the back of this catalog.

ACADEMIC INTERNSHIPS
Many departments and programs offer these special undergraduate courses which allow students to earn academic credit for formally supervised experience outside the traditional university classroom. Students work with faculty and internship hosts to plan, process, and evaluate the learning resulting from the internship experience. All Academic Internship courses are governed by the Academic Internship Policy, and are required to include (among other elements) a clear relationship to the academic discipline(s) offering the course; a screening or selection procedure for students wishing to enroll; a written learning agreement to formalize the internship experience; and facilitation of learning by the course instructor, including both writing assignments and seminars or other group meetings. Normally, a student may count no more than 6.0 units of Academic Internship course credit for their degree. (See Academic Internship Policy under Policies and Regulations for full details.)

INDEPENDENT STUDY COURSES
Enrollment in Independent Study (499) is by permission of the department chair and consent of an instructor to act as a sponsor. Admission is based on evidence of ability to pursue independent study in depth and approval of a project submitted at the time of registration. Students who are on probation or who have not completed academic disqualification readmission requirements may not enroll in 499 courses. Regular progress meetings and reports are required before credit can be received. The maximum number of units of credit in 499 courses that can be counted toward the baccalaureate degree is six units in a major and three additional units outside the major. Enrollment in Independent Study is not allowed for the purpose of substitution for an existing course. Not available for General Education.

INDIVIDUAL STUDY COURSES
Enrollment in Individual Study is by permission of the department chair and consent of an instructor to act as sponsor. Individual study courses may be taken only in substitution for approved courses which are not available during the semester of enrollment. A maximum of six units of credit in Individual Study may be earned in a single department. Enrollment in Individual study courses must be completed during the first three weeks of instruction. Not available for General Education.

EXPERIMENTAL/SPECIAL TOPICS COURSES
Every department is entitled to offer Experimental courses under the numbers 196, 296, 396, and 496, and offer Special Topics courses under the numbers 595 and 695. Experimental courses and Special Topics will be listed in the Schedule of Classes. Students interested in Experimental and/or Special Topics courses should consult the Schedule of Classes or the departments offering the courses.

PREREQUISITES
Course prerequisites are stated in the course lists. Students must have satisfied the prerequisite requirements for all courses in which they enroll. It is recognized that students may have preparation equivalent to the stated prerequisites; where a student has equivalent preparation, the instructor may determine the adequacy of substitute preparation offered by the student for admission to his/her course.
**AFRICAN STUDIES**  
(Interdisciplinary Minor)  
Coordinator: Tom Spencer-Walters  

**COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES**  
Phone: (818) 677-5832  

**PROGRAM COMMITTEE:** Joseph Holloway, Pan African Studies;  
Christopher Leu, Political Science; Barbara Rhodes, Pan African Studies;  
Tiyo Soga, Pan African Studies;  
Tom Spencer-Walters (Coordinator), Pan African Studies.  

**ADVISORS:** Advisement is available from the Coordinator of African Studies and the members of the Program Committee listed above.  

**DEGREE OFFERED:** Minor in African Studies.  

**THE PROGRAM:** The minor in African Studies is designed to provide an interdisciplinary approach to the study of African history, politics, geography, and cultures. It provides a background for advanced study of Africa and for teaching African and World Cultures in elementary and secondary schools. In several departments, students may take courses which satisfy requirements or may be used as electives in their majors as well as in the African Studies Minor. All students interested in the African Studies Minor must see a member of the Program Committee or the Coordinator of African Studies to work out a program that will meet their own specific needs and interests.  

**REQUIREMENTS FOR THE MINOR**  

**LOWER DIVISION (6 UNITS)**  
Select one of the following:  
- **HIST 145** African Civilization to Modern Times........3  
- **PAS 222** Geography and Culture of Pan-African Peoples..............................3  

Select one from the following:  
- **ANTH 152** Cultural and Social Anthropology........3  
- **GEOG 150** Human Geography........................................3  

(or one of the courses HIST 145 or PAS 222 not used to meet the requirement above)  

**UPPER DIVISION (18 UNITS)**  
Select from the following. Some of these courses may have prerequisites:  
- **ANTH 338** Peoples of Africa........................................3  
- **ANTH 496V** Exper. Courses in Anthropology: Africa......3  
- **ANTH 404** The Tribal Arts of Black Africa and Oceania.......................3  
- **EPC 496Y** Exper. Courses in Educational Psychology: Education in Selected African Nations...3  
- **GEOG 326** Africa......................................................3  
- **GEOG 496D** Exper. Courses in Geography: Africa.........3  
- **HIST 435** African History to the 19th Century..............3  
- **HIST 436** African History since the 19th Century...........3  
- **HIST 496V** Exper. Courses in History: Africa...............3  
- **HIST 497Y** Proseminar: Africa....................................3  
- **HUM 321** African Humanities....................................3  
- **PAS 344** Literature of the Caribbean and African Experience..........................3  
- **PAS 366** Colonialism in Africa..................................3  
- **PAS 491** Educational Systems of Africa........................3  
- **POLS 420E** International Relations of Selected Areas: Africa..........................3  
- **POLS 439A** Government and Politics of Tropical Africa.................................3  
- **POLS 439B** Government and Politics of Southern Africa..............................3  
- **POLS 471HH** Seminar: Government and Politics of Africa..............................3  

**TOTAL UNITS IN THE MINOR (24 UNITS)**
AMERICAN INDIAN STUDIES  
(Interdisciplinary Minor)  
Coordinator: Loretta Winters

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES  
Phone: (818) 677-5442

ADVISORS: Advisement is available from either the Coordinator of American Indian Studies or from members of the Program Committee (listed below).

PROGRAM COMMITTEE: Elliot McIntire, Geography; Mark Raab, Anthropology; Tacheeni Scott, Biology; David Wood, History.

DEGREES OFFERED: Minor in American Indian Studies.

THE PROGRAM: The minor in American Indian Studies offers courses in the culture and history of the American Indian. The approach is interdisciplinary. Students will examine American Indian literature, music, art, religious thought, history, land-use, urban problems and social attitudes. The program is designed to enhance the understanding and appreciation of the American Indian culture in its multiple aspects. Many courses in the program satisfy requirements in several majors as well as in the American Indian Studies minor. In addition, the program provides background for advanced study in areas such as history, anthropology, psychology, religious studies, art, geography, and American Indian education.

Not all courses in the minor will be offered each year. Interested students should consult an advisor about program requirements, substitutions and alternate program plans, including special topics courses specifically designed for the American Indian Studies program.

REQUIREMENTS FOR THE MINOR

REQUIRED COURSES (9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Introduction to American Indian Studies</td>
</tr>
<tr>
<td>HIST 369</td>
<td>History of American Indians</td>
</tr>
<tr>
<td>S&amp;BS 401</td>
<td>Seminar in Contemporary Issues of Native Americans</td>
</tr>
</tbody>
</table>

ELECTIVES (9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 206</td>
<td>Indians of North America</td>
</tr>
<tr>
<td>ANTH 207</td>
<td>Indians of California and the Southwest</td>
</tr>
<tr>
<td>ART 401</td>
<td>Arts of Native North American Societies</td>
</tr>
<tr>
<td>ENGL 314</td>
<td>North American Indian Literature</td>
</tr>
<tr>
<td>HIST 308</td>
<td>Writing Family History</td>
</tr>
<tr>
<td>RS 308</td>
<td>Religions of the North American Indians</td>
</tr>
<tr>
<td>Indep. 499C</td>
<td>American Indian Studies, Anthropology, Art, English, Sociology, History, Psychology, Religious Studies, or the School of Education</td>
</tr>
</tbody>
</table>

(Requires prior approval of the Coordinator)

TOTAL UNITS IN THE MINOR (MINIMUM OF 18 UNITS)

COURSE LIST

UPPER DIVISION

401. CONTEMPORARY ISSUES OF NATIVE AMERICANS (3)

This course focuses on the relationship between the American Indian community and the surrounding society. While concerned with the history and culture of Native Americans, its main emphasis is on the contemporary situation. Although the major focus will be on Native Americans, their experience will be compared and contrasted with the experiences of the dominate society and those of other racial and ethnic groups. This will provide the students with an understanding of the Native American world view and reveal some of the reasons for Native Americans’ conflicts with the non-Indian world.
ANTHROPOLOGY
Chair: Antonio Gilman

COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES
Department Office: Sierra Hall 221
Phone: (818) 667-3331 Fax: (818) 677-2873
Secretary: Antonia Peña-Hernandez.

FACULTY: Liucja Baskauskas, Naomi Bishop,
Bruce Gelvin, Antonio Gilman (Chair), Michael Love, Sabina
Magliocco, Judith Marti, Mark Raab, Greg Truex.

UNDERGRADUATE ADVISOR: Sabina Magliocco, Bruce Gelvin

GRADUATE ADVISOR: Antonio Gilman

DEGREES OFFERED: B.A. and M.A.

OPTIONS AND MINORS WITHIN MAJOR: Student’s Optional
Program, Minor.

ACADEMIC ADVISEMENT: All faculty post their office hours
outside their offices and in the main office each semester.
Undergraduate and graduate advisors are available to
answer specific questions about the program during the
semester and registration week.

DEPARTMENT PROGRAMS: Anthropology involves the study of
people, their origins, biological variations and
characteristics, their languages and cultural patterns, their
social structures and institutions, and their adaptation to
their environment. The Department offers a Major and an
Optional Program. The Major is designed to contribute to a
student’s liberal education and to prepare the student for
graduate work, teaching, or other professional pursuits. The
Optional Program is a major program developed for an
individual student’s interest, (i.e., subject areas:
Archaeology, Urban Anthropology, Art and Culture, or
other areas), to provide for maximum flexibility in the use of
instructional resources.

The Department of Anthropology supports the concept of
international education and encourages students to
investigate opportunities for overseas study. Certain courses
taken at CSU International Program Study Centers in
foreign countries are equivalent to courses in the
Department of Anthropology and may be used to fulfill
some of the requirements for degree options offered by the
Department and/or certain general education requirements.
Students should consult the International Programs Bulletin
available in the Office of International and Exchange
Programs, a departmental advisor, or the campus
International Programs Advisor for more information.

CAREERS: Anthropology provides an excellent liberal arts
background which prepares majors for a wide variety of
careers ranging from law to business to medicine. It also
provides specific training which can lead to positions in
such fields as archaeology, museum curator, archivist,
demographer, or park ranger.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

LOWER DIVISION REQUIRED COURSES (6 UNITS)
ANTH 151 Physical Anthropology.................................3
ANTH 152 Culture and Human Behavior.........................3

UPPER DIVISION REQUIRED COURSES (15 UNITS)
ANTH 303 Anthropological Thought..............................3
ANTH 310 Language in Culture....................................3
ANTH 319 Prehistoric Archaeology..............................3
ANTH 375 Ethnographic Research Techniques.....................3
ANTH 404 Comparative Social Organization....................3

DISTRIBUTION REQUIREMENT:
Choose one from 311, 423, 426, 427, 428, 429, 441, 453..............3
Regional Course: Choose one from the following:
306, 307, 339, 347, 351, 352..............................................3
Seminar in Anthropology: Choose from Anth 490A-D.............3
Electives: Choose five upper division electives.....................15

No more than one may be from the following
General Education courses in Anthropology:
300, 305, 308, 315, 344, 345.

TOTAL UNITS IN THE MAJOR (45 UNITS)

GENERAL EDUCATION (52 UNITS)

TITLE 5 (6 UNITS)
ADDITIONAL UNITS (21 UNITS)
TOTAL UNITS REQUIRED FOR DEGREE: 124

OPTIONAL PROGRAM

Students may, on their own initiative, and before the
completion of 90 units, devise an anthropology major
program which reflects specialized or interdisciplinary
interests. The requirements of the option are 1) a written
outline of proposed courses and statement of objectives;
2) at least 45 semester units, of which 39 or more are upper-
division; 3) more total units in anthropology than in any other
field; 4) the evaluation and approval of the proposed
program by a departmental committee of at least two faculty
members and an optional maximum of two other students;
5) approval by the Department Chair. A student may present
his or her proposed program directly to the evaluating
committee for consideration, or consult with one or more
faculty advisors before submitting a list of courses. Upon
acceptance of the program by the department, a program of
study will be prepared and maintained in the student’s file.

MINOR

LOWER DIVISION REQUIRED COURSES (3 UNITS)
Choose one of the following:
ANTH 150 Human Origin and Culture..........................3
ANTH 152 Culture and Human Behavior.........................3

UPPER DIVISION REQUIRED COURSES (15 UNITS)
Choose, in consultation with an advisor, five 300 or
400-level anthropology courses, including at least one
regional course.................................................................15

TOTAL UNITS IN THE MINOR (18 UNITS)

REQUIREMENTS FOR THE GENERAL MASTER OF ARTS DEGREE IN

ANTHROPOLOGY

The graduate program in anthropology offers two options
for students; one is directed toward a thesis, the other
toward a comprehensive examination covering two
subdisciplines and a geographical or topical area. All
entering students must complete the following for
admission to classified status in the program:

CLASSIFIED STATUS:
1. General university requirements for classified status.
   For those whose cumulative undergraduate grade
   point average is below 3.0, the Department requires a
   minimum of the 50th percentile on at least two
   sections at the Graduate Record Exam.
2. A bachelor’s degree with a major in anthropology.
3. Students without a major in anthropology, who meet
   University standards for admission to Graduate
Studies, need to fulfill certain prerequisites in anthropology. These may be determined in consultation with the Graduate Advisor.

4. Math 140 or equivalent.

FOR THE DEGREE:

1. A minimum of 30 units of approved graduate work consisting of:
   a) four required graduate seminars in anthropology
      ANTH 601 Seminar in Anthropological Theory......3
      ANTH 602 Prob. in Cultural Anthropology.........3
      ANTH 603 Prob. in Physical Anthropology..........3
      ANTH 606 Problems in Archaeology...............3
   b) approved electives at the 400, 500, and 600 level, including 499 and 599 (12 units)
   c) thesis option:
      ANTH 696A Directed Graduate Research............2
      ANTH 696B Directed Graduate Research............2
      ANTH 698 Thesis.......................................2
   or comprehensive option:
      ANTH 696A Directed Graduate Research............2
      ANTH 696B Directed Graduate Research............2
      ANTH 696C Directed Graduate Research............2
2. Research Skill: proficiency in one of the following:
   a) a foreign language.
   b) computer science (101/105 and 205FOR or equivalent).
   c) one upper division statistics course in addition to Math 140, or Anth 475.
3. Satisfactory completion of a graduate thesis, project, or comprehensive examination (Anth 697) directed by the student’s committee.

REQUIREMENTS FOR THE PUBLIC ARCHAEOLOGY MASTER OF ARTS DEGREE IN ANTHROPOLOGY

All entering students must complete the following to be admitted to and achieve classified status within the Public Archaeology Option:

CLASSIFIED STATUS:

1. General University requirements for admission. This includes the Graduate Record Exam for those whose GPA is below 3.0.
2. Completion of courses that are prerequisites to those taken in the option. Prior to classification students must in all cases have taken Anthropology 303 (Anthropological Thought), Anthropology 319 (Prehistoric Archaeology), Anthropology 427 (Archaeology of North America), and Anthropology 476A (Field Study, Archaeology: Excavation and Survey) or their equivalents. Preliminary course work to be completed prior to classification will be determined in consultation with the Option Advisor.
3. Mathematics 140 (Introductory Statistics) or equivalent.

FOR THE DEGREE:

1. The required minimum of 33 units of graduate work shall include the following:
   a) Required 500- and 600-level courses (15 units):
      ANTH 518 Laboratory Methods in Archaeology.....3
      ANTH 601 Seminar in Anthropological Theory.....3
      ANTH 606 Problems in Archaeology...............3
      ANTH 607 Seminar in Management
      of Archaeological Resources.....................3
      ANTH 694 Practicum in Cultural
      Resource Management............................3
   b) Electives (12 units)
      ANTH 426 Old World Archaeology.................3
      ANTH 428 Archaeology of Mesoamerica............3
      ANTH 429 Archaeology of South America...........3
      ANTH 430 Cultural Ecology........................3
      ANTH 451 Economic Anthropology................3
      ANTH 453 Human Paleontology.....................3
      ANTH 490A Seminar in Archaeology...............3
      ANTH 560 Social Evolution........................3
      ANTH 473 Anthropological Research Methods......3
   Other courses chosen in consultation with the Option Advisor.
   c) Thesis (6 units)
      ANTH 696A Directed Graduate Research...........2
      ANTH 696B Directed Graduate Research...........2
      ANTH 698 Thesis....................................2

HONORS PROGRAM

The Program leads to a B.A. degree in Anthropology with Honors and provides the student with an opportunity to engage in research under the supervision of an individual faculty member.

Anthropology majors with a 3.5 overall GPA, senior standing, and who have completed or are enrolled in Anth 375L may enter the program by enrolling in Anth 498, Honors Tutorial in Anthropology.

Students pursuing this option cannot take more than 3 units of independent study toward their anthropology degree. Anth 498 will count as one upper division elective.

Graduation with Honors in Anthropology will require the following:

A final overall GPA of 3.5 or better. Completion of all major requirements in Anthropology, completion of Anth 498, Honors Tutorial in Anthropology.

COURSE LIST

LOWER DIVISION

101. INTRODUCTION TO NORTH AMERICAN INDIAN STUDIES (3)
An introduction to traditional and contemporary American Indian cultures with an interdisciplinary approach to the history, social institutions, religion, literature, arts, and inter-ethnic relations of major Indian tribal and linguistic groups. (Available for General Education, Comparative Cultural Studies.)

107. CULTURES OF THE PACIFIC (3)
This course describes traditional and modern Polynesian, Micronesian, and Melanesian cultures and discusses the impact of exploration, occupation and control of the Pacific by major world powers. (Available for General Education, Comparative Cultural Studies.)

108. LATIN AMERICAN CULTURES (3)
A study of major social institutions and life styles in Central and South America focusing on contemporary peoples, their traditional cultural base, and current cultural changes. (Available for General Education, Comparative Cultural Studies.)

150. HUMAN ORIGIN AND CULTURE (3)
An overview of human physical and cultural origins and the development and distribution of diverse populations, languages, social institutions, and beliefs; introduction to the methods and insights of cultural anthropology, archaeology, linguistics and physical anthropology. (Available for General Education, Social Sciences.)
151. PHYSICAL ANTHROPOLOGY (3)
An anthropological perspective on biological variation in human and nonhuman primates in the past and the present; examines the interaction between biology and culture in the evolution of human society. The evolution and behavior of nonhuman primates are examined for what they reveal about the human condition. (Available for General Education, Social Sciences.)

152. CULTURE AND HUMAN BEHAVIOR (3)
Study of the variety of cultural patterns that human societies use to adapt to the environment, guide social interaction and understand the human condition. The course emphasizes the ideas and methods anthropologists use to develop a scientific and humanistic understanding of the world’s cultures. (Available for General Education, Social Sciences.)

222. VISIONS OF THE SACRED (3)
A study of the varieties of religious beliefs, rituals and experiences showing the relationship between people and their society, culture, environment and universe. (Available for General Education, Humanities.)

230. INTRODUCTION TO HUMAN SEXUAL BEHAVIOR (3)
(Same as Biology, History, Psychology, Religious Studies and Sociology 230.) This course provides an introductory overview of human sexual function and sexual behavior. Emphasis will be given to the historical and religious background of the prevailing attitudes toward sex in our culture as to current sexual practices from the perspective of contemporary social science. Additional topics include sexual values and ethics, love, legal aspects of sexual behavior, and eroticism in American culture. An inter-department team-taught course. May not be used for General Education credit.

UPPER DIVISION

300. ANTHROPOLOGY AND THE MODERN WORLD (3)
Prerequisites: Lower division G.E. course in Cultural Anthropology, Sociology, Political Science or Cultural Geography and completion of the lower-division writing requirement. A seminar examining contemporary global issues and problems and their effects on western and non-western cultures. Topics include anthropological perspectives on colonialization, modernization, acculturation, poverty, racism, sexism, energy, pollution, and applied anthropology. (Available for General Education, Social Sciences.)

303. ANTHROPOLOGICAL THOUGHT (3)
Prerequisite: Anth. 150 or 152. Study of the conceptual foundations of contemporary anthropological thought. Topics include evolutionary theory, functionalism, historicalism, structuralism, and interpretative anthropology.

305. INDIVIDUAL AND CULTURE (3)
Prerequisites: Anth. 150, Psy. 150, or Soc. 150 and completion of the lower-division writing requirement. Comparative study of the relationship between the individuals and their culture. Child-rearing in non-western cultures. Exploration of individual identity and group character. Regular written assignments will be required. (Not to be taken for credit in addition to Soc. 305.) (Available for General Education, Social Sciences.)

306. INDIANS OF NORTH AMERICA (3)
Prerequisite: Anth. 150 or 152. North American Indians in prehistoric, historic, and present time.

307. INDIANS OF CALIFORNIA AND THE SOUTHWEST (3)
Prerequisite: Anth. 150 or 152. Origins, modes of subsistence, social organization, and geographic and historical relationships. The European conquest and the present condition of several tribes.

308. WOMEN, SEX ROLES, AND CULTURE (3)
Prerequisite: Completion of the lower-division writing requirement. A discussion of women and sex roles in tribal, modernizing, and industrial societies; traditional sex roles and the impact of cultural change. (Available for General Education, Comparative Cultural Studies.)

310. LANGUAGE IN CULTURE: ANTHROPOLOGICAL LINGUISTICS (3)
Prerequisite: Completion of the lower-division writing requirement. A study of basic linguistic concepts in cultural contexts; an examination of language diversity and socio-cultural factors of language use. (Available for General Education, Comparative Cultural Studies, and for Section C of the Multicultural Requirement for Credential Candidates.)

311. HUMAN VARIATION (3)
Prerequisite: Anth. 151. Morphological, genetic, and physiological aspects of human biological variability; the concept and description of race; the interaction of cultural and environmental factors in human biological adaptation.

315. THIRD WORLD CULTURES (3) (FORMERLY 104)
Prerequisite: Completion of the lower-division writing requirement. Compares and contrasts non-Western, kin-organized societies with class-oriented Western societies. Also examines the historic relationship between Western societies and those of indigenous peoples in the Third World. (Available for General Education, Comparative Cultural Studies.)

316. ETHNOGRAPHY AS NARRATIVE (3)
Prerequisite: Anthropology 152. Consideration of the narrative conventions and styles of presentation of ethnographic writings, covering a variety of ethnographic works, including fiction with high ethnographic interest and content. Introduction to interpretive approaches highlighting the uniqueness of each culture and emphasizing the depth and complexities of each cultural scene.

319. PREHISTORIC ARCHAEOLOGY (3) (FORMERLY 153)
Prerequisite: Completion of the lower-division writing requirement. This course encompasses the origin and development of prehistoric human culture from hunting and gathering to the origin of urban societies. The course surveys the archaeological evidence from both the New and Old World. (Available for General Education, Social Sciences.)

321. ARCHAEOLOGY OF THE AMERICAN SOUTHWEST & CALIFORNIA (3)
Prerequisite: Anth. 319. The archaeology of the American Southwest and California, beginning in late Pleistocene times and continuing through to proto-historic times.

326. INTRODUCTION TO FOLKLORE (3)
Prerequisite: Completion of lower division writing requirement. Introduces students to the study of folklore from a cross-cultural perspective, including major forms, such as folktale, legend, ballad, joke, riddle, proverb, and festival, and the theories used to interpret them. (Available for General Education Section C, Humanities.)
339. PEOPLES OF SOUTH ASIA (3)
Prerequisite: Anth. 150 or 152 and completion of lower-division writing requirement. A survey of the cultures of South Asia reviewing the culture, history, language distribution, and principal culture types. (Available for General Education, Comparative Cultural Studies.)

344. ASIAN AMERICAN ETHNICITY AND CULTURES (3)
Prerequisites: Completion of 3 units of Social Science Section of General Education and completion of the lower-division writing requirement. An anthropological survey of Asian ethnic groups in the United States, focusing on problems of ethnic identity and expression and different modes of socio-cultural adaptation to the larger society. (Available for General Education, Comparative Cultural Studies.)

345. ETHNICITY IN THE UNITED STATES (3)
Prerequisites: Anth. 150 or 152 and completion of the lower-division writing requirement. Examination of individual and group ethnic identity. The interaction of mainstream culture, ethnic groups and social classes in U.S. society. Illustrations drawn from particular groups. (Available for General Education, Comparative Cultural Studies.)

346. URBAN ANTHROPOLOGY (3)
Prerequisite: Completion of the lower-division writing requirement. Cross-cultural urbanism, urbanization and migration, both with macro and micro focus. Regular written assignments will be required.

347. PEOPLES OF THE PACIFIC (3)
Prerequisite: Anth. 150 or 152. A survey of the traditional and changing cultures of Micronesia, Polynesia, and Melanesia from first settlement to the present.

351. PEOPLES OF MIDDLE AMERICA (3)
Prerequisite: Anth. 150 or 152. A survey of the cultures from Mexico to Panama tracing their characteristics and changes from the 16th century until the present.

352. PEOPLES OF SOUTH AMERICA (3)
Prerequisite: Anth. 150 or 152. A survey of the cultures of South America, including peasant and tribal societies, emphasizing their historical background, emergent characteristics and present changes.

356. PEOPLES AND CULTURES OF THE MEDITERRANEAN (3)
Prerequisites: ANTH 150 or 152. Examines people and cultures of the Mediterranean region, including Spain, southern France, Italy, Greece, the Middle East and North Africa, through contemporary ethnography and film.

375/L. ETHNOGRAPHIC RESEARCH TECHNIQUES (3) (Formerly 301)
Prerequisites: Anthropology 150 or 152, upper-division standing, completion of the lower-division writing requirement. Introduction to the concepts of ethnography as scientific research. Review of qualitative methods used in fieldwork, including data collection, database management, and analysis.

385A-O. SITE VISITS CALIFORNIA AND SOUTHWEST (1-3)
Prerequisite: Anth. 306 or 307. The prehistoric and modern cultures of Native Americans in the Southwest and California. Emphasis is on understanding their technologies, cultures, and ecology through direct field observation. The impact of Spanish and American people on Native American culture will also be examined. (No more than 3 units may be counted toward the major.)

COURSES ACCEPTABLE FOR THE MASTER'S DEGREE
(300-level courses in Anthropology do not carry graduate credit for a master's degree in anthropology.) Prerequisites may be waived with instructor's consent.

404. COMPARATIVE SOCIAL ORGANIZATION (3)
(Formerly 304)
Prerequisite: Anth. 150 or 152. The comparative study of social divisions in human societies.

405. COGNITIVE ANTHROPOLOGY (3)
Prerequisites: Anth. 310 and completion of the lower-division writing requirement. A survey of the impact of the cultural context on styles and modes of thought. Topics include theories of folk classifications, componential analysis, cultural models of social relations and thought, prototype theory and schema theory. Regular written assignments will be required.

421. PRIMATOLOGY: MORPHOLOGY, BEHAVIOR, AND SOCIAL ORGANIZATION (3)
Prerequisite: Anth. 151 and 150 or 152. A detailed examination of that part of physical anthropology which seeks to add to understanding of human behavior and evolution by elucidating the social organizations and behavioral adaptation of the primates.

423. HUMAN BEHAVIOR: EVOLUTIONARY PERSPECTIVES (3)
Prerequisites: Anth. 151; completion of the lower-division writing requirement. An introduction to the various methods and approaches anthropologists use to understand human behavior from a biocultural perspective. The course examines the determinants of human behavior, past and present. Regular written assignments will be required.

424. THE SUPERNATURAL IN THE MODERN WORLD (3)
Prerequisite: ANTH 152. An ethnographic approach to supernatural belief in the post-Enlightenment Western world through religions, narratives, folk healing, folk drama, ritual and media accounts. The course also analyzes scholarly approaches to these topics.

426. OLD WORLD ARCHAEOLOGY (3) (Formerly 359)
Prerequisite: Anth. 319. A survey of the culture history of the Old World from Paleolithic times to the rise of the major Old World civilizations, with an emphasis on the prehistory of the Southwestern Asian, Mediterranean, and European regions. Regular written assignments will be required.

427. ARCHAEOLOGY OF NORTH AMERICA (3)
Prerequisites: Anth. 319 and completion of the lower-division writing requirement. An examination of that part of physical anthropology which seeks to add to understanding of human behavior and evolution by elucidating the social organizations and behavioral adaptation of the primates.

428. ARCHAEOLOGY OF Mesoamerica (3)
Prerequisites: Anth. 319 and completion of the lower-division writing requirement. This course provides an overview of the cultural achievements and developments in Mesoamerica prior to the Spanish Conquest.

429. ARCHAEOLOGY OF SOUTH AMERICA (3)
Prerequisites: Anth. 319 and completion of the lower-division writing requirement. This course provides an overview of the cultural achievements and developments in South America prior to the colonization by the European countries.

430. CULTURAL ECOLOGY (3)
Prerequisites: Anth. 150 or 152; completion of the lower-division writing requirement. Cultural ecology attempts to understand the structure, distribution and evolution of
human societies on the basis of ecological principles. Regular written assignments will be required.

450. HISTORICAL ANTHROPOLOGY (3)
Prerequisites: Anth 150 or 152; completion of the lower division writing requirement. An introduction to the anthropological study of cultures within a historical context. Examines the importance of a diachronic approach to the study of contemporary societies and introduces anthropological methods for a study of the past. Teaches critical analysis of documentary materials relevant for anthropological research. Regular written assignments are required.

451. ECONOMIC ANTHROPOLOGY (3)
Prerequisites: Anth. 152 plus one regional area course. A comparative study of the economic component of human cultures. The problems of theoretical conceptualization will be emphasized.

452. PROBLEMS IN PSYCHOLOGICAL ANTHROPOLOGY (3)
Prerequisites: Anth. 305 or Soc. 305 or Psych. 305. The analysis of issues in psychological anthropology.

453. HUMAN PALEONTOLOGY (3)
Prerequisites: Anth. 151 and Anth. 319. The origin of humanity and the history of physical evolution beginning in Miocene times and continuing through to the present.

462. ANTHROPOLOGY OF THE ARTS (3) (Formerly 362)
Prerequisites: Anth. 150 or 152; completion of the lower-division writing requirement. Anthropological approaches to the study of artistic expression in diverse socio-cultural settings from the prehistoric to the present. Regular written assignments will be required.

470. ANTHROPOLOGICAL FILM STUDY (3) (Formerly 376)
Prerequisite: Anth. 150 or 152 and one upper division Anthropology course. A study of ethnological experiences, especially in non-literate societies, that lend themselves best to translation into films.

475. ANTHROPOLOGICAL RESEARCH METHODS (3) (Formerly 575)
Prerequisites: Classified status, Anthropology 375. Introduction to the integration of anthropological perspectives with other social scientific research, including quantitative and advanced qualitative methods.

476A-E. FIELD STUDY (3 EACH)
Fieldwork in any branch of anthropology, taken either in conjunction with, or subsequent to, an upper division course in that particular branch. A-Archaeology: Research on Excavated Materials; B-Biological Anthropology; C-Cultural Anthropology; D-Linguistics; E-Archaeology: Excavation and Survey.

490A-D. SEMINAR IN ANTHROPOLOGY (3)
Prerequisites: Anth. 375 (formerly Anth 301) and one upper division course in the appropriate subdiscipline. Faculty-directed research on primary data in the major subdisciplines of anthropology. Selected subjects in the same subdiscipline may be repeated up to three times. A-Archaeology; B-Biological Anthropology; C-Cultural Anthropology; D-Linguistics.

496A-Z. EXPERIMENTAL COURSES IN ANTHROPOLOGY (3)
Prerequisite: Appropriate introductory course. Selected topics in Anthropology with course content to be determined.

498. HONORS TUTORIAL IN ANTHROPOLOGY (4)
Prerequisite: Admission to Honors Program in Anthropology. Writing an honors thesis, based on primary research, under the supervision of a member of the faculty.

499. INDEPENDENT STUDY (1-3)

GRADUATE
(Prerequisites may be waived with instructor’s consent.)

518/L. LABORATORY METHODS IN ARCHAEOLOGY (3) (Formerly 418)
Prerequisite: Anth. 319. Participation in description, analysis and interpretation of archaeological collections. Classification, measurement and description, cataloging and recording of pottery, lithic, and other materials are discussed. Two hours lecture and one two hour laboratory per week.

560. SOCIAL EVOLUTION (3)
Prerequisite: Anthropology 404. Study of the ethnological evidence for human social evolution from primate troops to tributary states. Particular attention will be paid to the application of ethnological perspectives to the archaeological record for social evolution.

601. SEMINAR IN ANTHROPOLOGICAL THEORY (3) (Formerly 501)
Prerequisite: Classified status or consent of instructor. A survey of the development of anthropological theory across the subdisciplines of anthropology, with particular emphasis on cultural anthropology. The course is intended to prepare students for comprehensive M.A. examinations.

602. PROBLEMS IN CULTURAL ANTHROPOLOGY (3) (Formerly 502)
Prerequisite: Classified status or consent of instructor. A survey of current issues and debates in cultural anthropology. The course is intended to prepare students for comprehensive M.A. examinations.

603. PROBLEMS IN PHYSICAL ANTHROPOLOGY (3) (Formerly 503)
Prerequisite: Classified status or consent of instructor. Advanced study of theories, methods, problems and data pertinent to contemporary physical anthropology. The course is intended to prepare students for comprehensive M.A. examinations.

606. PROBLEMS IN ARCHAEOLOGY (3) (Formerly 506)
Prerequisite: Classified status or consent of instructor. An intensive review of current issues and concepts critical to general understanding of archaeology. The course is intended to prepare students for comprehensive M.A. examinations.

607. SEMINAR IN MANAGEMENT OF ARCHAEOLOGICAL RESOURCES (3)
Prerequisite: Classified status or consent of the instructor. This course covers the practical, scientific, and ethical aspects of conducting archaeological research for public and private agencies.

694. PRACTICUM IN CULTURAL RESOURCE MANAGEMENT (3)
Prerequisite: Anth. 607 or consent of instructor. Internship involving the student directly in a work experience in cultural resource management.
696A-B-C. DIRECTED GRADUATE RESEARCH (2-2-2)
(Formerly 596A-B-C)
Supervised research in thesis and comprehensive studies. For thesis option students, 696A and 696B are designed for completion of an annotated bibliography and thesis proposal respectively. For comprehensive option students 696A, B, & C are intended for directed reading in each of three areas to be covered in their comprehensive exam. 696A is intended for first semester graduate students and is prerequisite for classified status in the Master’s program.

697. DIRECTED COMPREHENSIVE STUDIES (1-3)
(Formerly 597)
Prerequisite: Completion of all courses required in the program.

698. THESIS OR GRADUATE PROJECT (2) (Formerly 598)

699. INDEPENDENT STUDY (1-6) (Formerly 599)
Prerequisite: Classified graduate status.
ART
Chair: Joe Lewis.

COLLEGE OF ARTS, MEDIA, AND COMMUNICATION
Chair: Joe Lewis
Secretary: Jane McIntyre
Operations Analyst: Jay Wollenhaupt
Phone: (818) 677-2242   FAX: (818) 677-3046
E-mail: art.dept@csun.edu Web: www.csun.edu/artdep/


EMERITUS FACULTY:  George Alsup, Robert Bassler, Saul Bernstein, John Canavier, Mary Ann Danin, William Davis, Ralph Evans, Tom Fricano, John Hannah, Marvin Harden, Anne Heath, Donna Ruedy, Ruth Schrier, Lenore Sorenson, Donald Strong, Don Sudlow, Howard Tollefsen, Jeanne Trabold, Ernest Velardi, Dolores Yonker

GRADUATE COORDINATORS:  Contact Department of Art

DEGREES OFFERED:  B.A., M.A., M.F.A.

THE MAJOR:  The Department of Art offers a curriculum designed for students wishing a liberal arts education in art and design. Emerging artists have numerous opportunities available to them for expressing their creativity and obtaining employment after graduation. Students may explore several areas of art making and choose the field that best fits their interests and talents. The lower division and upper division core program is required of all Art Majors. Students select a minimum of 18 upper division elective units from two or more areas of concentration offered in the Art Department in order to complete the Bachelor of Arts program in their chosen area of study. Experiences are also available outside specialty areas offering students opportunities to sharpen professional skills and increase their marketability.

CAREERS:  The programs in the Department of Art prepare students for a broad range of opportunities in today’s academic and professional fields. Included are: Animation; Art Writing and Publishing; Computer Arts; Design; Illustration; Museum and Gallery Practices; Photography; Prototypes; Public Art; Studio Arts; Teaching; Video/Film. A more complete list is available in the Art Advisement Office.

ACADEMIC ADVISEMENT:  Students must meet with a faculty advisor at least once each semester. Faculty advisors are assigned through the Art Department Advisement Center, H-1107, Phone: (818) 677-2348. All full-time faculty serve as advisors. Students must consult their advisor each semester to assure completion of all requirements for graduation. All courses taken beyond the core requirements by Art Majors must be approved by their Department advisor. An Art Department Advising Form is required for this purpose. Students transferring from a non-accredited institution may be required to submit a portfolio.

CREDENTIAL INFORMATION:  An approved waiver program leading to a teaching credential, K-12, in the single subject area of art is available. For advisement concerning the program, prospective candidates should make an appointment with an approved advisor in the Art Department Advisement Center, H-1107 Phone: (818) 677-2348. Candidates should also seek advisement with the Credentials Office, ED 1105, Phone: (818) 677-2586

INTERNATIONAL STUDY:  The College of Arts, Media, and Communication supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Program Study Centers in foreign countries are equivalent to courses in the School of the Arts and may be used to fulfill some of the requirements for degree options offered by the School and/or certain general education requirements. Students should consult the International Programs Bulletin available in the Student Development & International Programs, USU SW113, a departmental advisor, or the campus International Programs Advisor for more information.

UNDERGRADUATE PROGRAM:  The Department of Art offers the curriculum leading to the Bachelor of Arts degree. This curriculum is designed for students who wish:

1. A liberal arts program with an emphasis in art.
2. Specialized study in art.
3. Preparation for graduate study in art.
4. Preparation for academic and professional fields.
5. Art teaching credential preparation.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE
All Art Majors are required to Complete Lower Division and Upper Division Core courses, plus the required units of lower division and upper division electives. The art major consists of a minimum of fifty-four units comprised of the following:

LOWER DIVISION REQUIRED COURSES (21 UNITS)

Art 124A  Drawing 1 ......................................................3
Art 124B  Drawing 1 ......................................................3
Art 140  Beginning 2-Dimensional Design ..........................3
Art 141  Beginning 3-Dimensional Design ..........................3
Art 200  Introduction to Visual Technology.......................3

Select two of the following courses (6 Units)

Art 110  History of Western Art, Pre-History to the Middle Ages .................................3
Art 111  History of Western Art, Renaissance to the Present.................................3
Art 112  Survey of Non-Western Arts.................................3

LOWER DIVISION ELECTIVES (MINIMUM OF 6 UNITS)

Art electives (100 and 200 level courses)

The selection of lower division electives will be for the purpose of satisfying prerequisites for upper division courses or for sampling areas in which the student might wish to specialize.
UPPER DIVISION REQUIRED COURSES (9 UNITS)

Art 438 Senior Projects ................................................3

Art History: Select two of the following: Art 313, 401, 403, 404, 412, 413, 414, 415, 416, 420, 421, 423, 425, 426, 428, 431, 432, 433, 441, 445, 448, 461, 462, 464, 468

UPPER DIVISION ELECTIVES (18 UNITS)

A minimum of 18 units of upper division courses shall be selected with the aid of an art adviser from two or more areas of concentration. It is recommended that students planning to do graduate study in Art complete a minimum of 12 upper division units in one area of concentration.


TOTAL UNITS IN THE ART MAJOR (54 UNITS)

GENERAL EDUCATION (52 UNITS)

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (12 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 124

AREAS OF CONCENTRATION

Lower and Upper Division Course listed by Areas of Concentration. Students may take any course listed in any area of concentration (provided that they have satisfied course prerequisites or have consent of instructor.)

ART EDUCATION:

380, 383, 385, 400, 479, 480, 481, 484, 485, 486, 487 (484, 485, 486 and 590 are required for the Single Subject Credential in Art).

ART HISTORY:

311 (does not satisfy the Upper Division Core Requirement for Art Majors.) 313, 401, 403, 404, 412, 413, 414, 415, 416, 420, 421, 423, 425, 426, 428, 431, 432, 433, 441, 445, 448, 461, 462, 464, 468, 496A-Z.

STUDIO AREAS OF CONCENTRATION:

Ceramics: 267, 366, 367, 467
Drawing: 224AB, 230, 324AB, 330, 424, 430
Fiber/Fabric Design: 272, 372, 470, 472, 474, 475
Graphic Design: 244, 323, 341, 343, 344, 346, 354, 356, 444, 446, 458
Illustration: 222, 322AB, 422
Industrial Design: 240, 325, 333, 340AB, 349, 440AB
Painting: 227, 228A, 326, 327, 328, 427, 429
Photography: 250, 350AB, 353, 355, 450, 455ABC
Up to 6 units of upper division photojournalism in the Department of Journalism may be applied towards the Art Major when students have taken the prerequisites of Art 250 and one upper division photography class.
Printmaking: 237, 337AB, 437
Sculpture: 235, 335, 339, 435
Traditional Animation: 323, 363, 443
Video/Film: 202, 300, 302, 312, 402
Wood Design: 277, 377, 477

INTERIOR DESIGN:
The Interior Design program is administered by Family Environmental Science Department (see page 291.) The following courses in the program are taught by the Art Department: ART 314, 320, 329, 447AB

ADDITIONAL COURSES:

Additional Course Offerings Available for Art Major Elective Credit:

Art 113 Architectural Drafting
Art 124C Drawing I
Art 148 Color Theory
Art 296A-Z Experimental Courses in Art
Art 308 Color Application
Art 314 Furniture Design and Construction
Art 320 Computer Drafting for Interior Design
Art 321 3D Computer Workshop
Art 329 Interior Design Presentation Techniques
Art 342 Exhibition Design
Art 447AB Advanced Interior Design
Art 481 Art as Therapy
Art 487 Puppetry
Arts 494 Internship in Art
Arts 495 Extended Study
**Arts 496A-Z Experimental/Special Topics in Art
**Art 499 Independent Study (maximum of 6 units toward Art degree requirements)

**Cannot be used to satisfy the Upper Division Core Requirements in the Art Major.

Art courses that do not qualify as credit toward the Art Major*: Art 100, 101, 105, 151, 205, 303, 305, 310, 315

*will count towards University elective credit only

INTERDISCIPLINARY ARTS STUDY

ARTS 494. INTERNSHIP IN THE ARTS (3-3)
Prerequisites: Senior or graduate standing, portfolio review or audition and consent of the instructor. An academic internship course. Six units maximum, three of which may be graduate. Course offered for Credit/No Credit only.

ARTS 496A-Z. INTERDISCIPLINARY ARTS STUDY
The College of Arts, Media, and Communication will, on occasion, offer interdisciplinary courses which combine topics or projects from two or more departments, primarily in the College of the Arts, Media, and Communication and which will be team taught.

MINOR IN ART

The Art Minor Program has been divided into two options:

OPTION I: STANDARD MINOR

LOWER DIVISION REQUIREMENTS: (12 UNITS)

Art 124A Drawing I .................................................3
Art 124B Drawing II ................................................3
Art 140 Beginning 2-Dimensional Design ..................3
Art 141 Beginning 3-Dimensional Design ..................3

UPPER DIVISION REQUIREMENTS: (12 UNITS)

Art 305 Art Today ..................................................3

TOTAL ART MINOR MINIMUM: (24 UNITS)
OPTION II: ART HISTORY

LOWER DIVISION REQUIREMENTS: (6-9 UNITS)
Art 110 History of Western Art, Pre-History to Middle Ages ................................................3
Art 111 History of Western Art, Renaissance to the Present ..............................................3
and/or
Art 112 Survey of Non-Western Arts..................................3
and/or
Any lower division studio course.

UPPER DIVISION REQUIREMENTS: (15-18 UNITS)
Select Art History courses (with consent of an Art History adviser). Upper division studio courses may be selected with the approval of an art history advisor.

TOTAL ART MINOR MINIMUM: 24 UNITS

GRADUATE PROGRAMS

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

TOTAL UNITS REQUIRED FOR THE MASTER OF ARTS DEGREE: 30

The Master of Arts degree is offered in the following areas of concentration:

OPTION I: ART EDUCATION
OPTION II: ART HISTORY
OPTION III: STUDIO

(With areas of concentration in Ceramics, Drawing, Fiber Art/Fabric Design, Painting, Printmaking, Sculpture, Video/Film, and Wood Design.)

(Not more than 12 units of work taken before fully classified status is achieved may be applied toward the M.A. program.)

I. ENTRANCE INTO THE PROGRAM

A. Those who choose Art Education must have their portfolio evaluated and approved by the appropriate Graduate Committee.

B. Art History Option:

1. Entrance Qualifications
   a.) B.A. in Art History or the equivalent, with a GPA of 3.0 or better.
   b.) Three professional recommendations
   c.) A written statement of purpose
   d.) A personal or telephone interview with a member of the Art History faculty
   e.) Passing score on the GRE (Graduate Record Examination)
   f.) Two (2) samples of academic writing which demonstrate art historical research skills.

2. Classification
   a.) Passing of the university Upper Division Writing Exam
   b.) Passing of the Foreign Language Reading Exam
   c.) Completion of 12 units in Art History at the 400 level or above, including at least one class at the 500 or 600 level
   d.) Passing of the Art History Comprehensive Exam

3. Advancement to Candidacy
   a.) Formation of thesis committee and selection of thesis advisor
   b.) Completion of an additional 12 units at the 500 or 600 level. These must include Art 611, Art 615, and two semesters of Art 619 (graduate seminar in Art History.)

C. Those who choose Studio areas must have their portfolio evaluated and approved by the studio Graduate Committee, and have completed a minimum of 12 upper division units in one area of concentration.

II. REQUIREMENTS FOR CLASSIFIED GRADUATE STATUS

A. A Bachelor’s degree in art from an accredited institution, or a Bachelor’s degree with a minimum of 24 units of upper division art or the equivalency as determined by the appropriate Department Graduate Committee.

B. An undergraduate grade point average of 3.0. Students who do not meet the requirement of undergraduate GPA of 3.0 must do the following:
   1. Complete the Graduate Record Examination (GRE) with a departmentally accepted score.
   2. Students applying to Art Education or Studio areas of concentration who do not meet the undergraduate GPA of 3.0 and do not take the GRE must fulfill the following in-lieu requirements:
      a. Submit three letters of recommendation from former professors or other persons adjudged by the Department to be competent to evaluate the student’s potential for graduate level performance;
      b. Submit a written philosophical statement of intention (1 to 2 pages);
      c. Complete Art 611 or 615 with a minimum grade of B. Art Education students may substitute Art 590 for Art 611.
      d. Pass a personal screening interview conducted by the appropriate Department graduate committee (or designee(s)).

C. Pass the Upper Division Writing Proficiency Examination.

III. REQUIREMENTS FOR THE DEGREE

A. Select a graduate advisor and thesis committee.

B. Complete the Program for Master of Arts form with approval of Graduate Advisor.

C. Meet at least once a semester with thesis committee to demonstrate satisfactory progress toward the degree.

D. Completion of a minimum of 30 units of approved graduate work comprised of the following:

   Approved student programs shall include a minimum of 21 units of graduate level (500 & 600) coursework.

   1. Required Courses (6 Units)
      Art 611 History and Philosophy of Art ...............3
      or
      Art 590 History and Philosophy of Art Education....3
      Art 615 Art Analysis and Criticism....................3

   2. For the Studio Option, courses in Area of Concentration
(12 Units). Candidate must select an area of concentration from the following:
   Ceramics, Drawing, Fiber Art/Fabric Design, Painting, Printmaking, Sculpture, Video/Film, and Wood Design

3. Graduate Level Elective Course
   Art 500 History of Art Museums and Collecting in Western Civilization .........................3
   Art 502 Art Museum Practices .................................................3-3-3
   Art 520 Studio Problems: Video/Film Art .................3-3
   Art 521 Studio Problems: Painting ............................3-3-3-3
   Art 524 Studio Problems: Drawing ......................3-3-3-3
   Art 525 Studio Problems: Printmaking .................3-3-3-3
   Art 535 Studio Problems: Sculpture .................3-3-3-3
   Art 540 Studio Problems: Design .................3-3-3-3
   Art 560 Studio Problems: Ceramics .................3-3-3-3
   Art 565 Studio Problems: Wood .........................3-3-3-3
   Art 570 Studio Problems: Fiber & Fabrics ..........3-3-3-3
   Art 619 Seminar in Art History .........................3-3-3
   Art 620 Advanced Studio Problems: Video/Film Art ..........3-3-3-3
   Art 621 Advanced Studio Problems: Painting 3-3-3-3
   Art 624 Advanced Studio Problems: Drawing .................3-3-3-3
   Art 625 Advanced Studio Problems: Printmaking .................3-3-3-3
   Art 635 Advanced Studio Problems: Sculpture ..........3-3-3-3
   Art 640 Advanced Studio Problems: Design ........3-3-3-3
   Art 660 Advanced Studio Problems: Ceramics ..........3-3-3-3
   Art 665 Advanced Studio Problems: Wood ....3-3-3-3
   Art 670 Advanced Studio Problems: Fiber and Fabrics ........3-3-3-3
   Art 681A/B Seminar in Art Education .....................3-3-3
   Art 686 Research in Art Education .........................3-3-3
   Art 696A-C Directed Graduate Research .................1-3
   Art 699A-C Independent Study ....................1-3-3-3-3

4. Students in Art Education and Art History may apply approved 400 level courses toward their area of concentration. (Not applicable in the Studio areas of concentration.)

5. Courses in related and/or outside field (9 Units)
   These are to be selected, with the approval of the adviser, from 400, 500, 600 level courses in art or related fields.

6. Reading proficiency in French or German is required for candidates whose area of concentration is Art History.

E. Thesis, project or artistic performance:
   Art 698 M.A. .........................................................3

F. Oral examination, if deemed necessary by the appropriate departmental Graduate Committee.

**TOTAL UNITS REQUIRED FOR THE MASTER OF ARTS DEGREE:** 30

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**REQUIREMENTS FOR THE MASTER OF FINE ARTS DEGREE**

**TOTAL UNITS REQUIRED FOR THE MASTER OF FINE ARTS DEGREE:** 60

The Master of Fine Arts (MFA) in Art is offered in the following studio areas of specialization:
   Ceramics, Drawing, Fiber Art/Fabric Design, Painting, Printmaking, Sculpture, Video/Film, and Wood Design

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I. REQUIREMENTS FOR CLASSIFIED GRADUATE STATUS

Students must meet all Classified Graduate Status requirements in order to enter the program.

A. A bachelor’s degree in Art from an accredited institution or a bachelors degree with a minimum of 24 units of upper division art, or the equivalency, as determined by the Department Studio Graduate Committee.

1. An undergraduate grade point average of 3.0. Students who do not meet the undergraduate GPA of 3.0 must do the following:
   a. Complete the Graduate Record Examination (GRE) with a departmentally accepted score.
   b. Students who do not meet the undergraduate GPA of 3.0 and do not take the GRE must fulfill the following in-lieu requirements:
      1. Submit three letters of recommendation from former professors or other persons adjudged by the department to be competent to evaluate the student’s potential for graduate level performance;
      2. Submit a written philosophical statement of intention (1 to 2 pages);
      3. Complete Art 611 or 615 with a minimum grade of “B”;
      4. Pass a personal screening interview conducted by the Department Studio Graduate Committee (or designee(s)).
      2. Completion of 18 advisor approved units of upper division and/or graduate work in the proposed specialization.
      3. Completion of a minimum of 12 units of Art History, six units of which must be upper division.

B. With the approval of the Department Studio Graduate Committee, up to 30 units of previously completed graduate course work with a grade of “B” or better may be allowed towards the MFA degree.

C. Successful completion of a Qualifying Portfolio Evaluation by the Department Studio Graduate Committee, with emphasis in the proposed specialization(s). A Statement of Intent and a resume will be submitted with the portfolio.

D. Pass the Upper Division Writing Proficiency Exam.

II. CLASSIFIED STUDENT REQUIREMENTS

A. Select a graduate advisor and thesis committee.
B. Complete the Program for Master of Fine Arts form with approval of graduate advisor.
C. Meet at least once a semester with thesis committee
to demonstrate satisfactory progress toward
Advancement to Candidacy.

D. Completion of a minimum total of 60 units of graduate
work in approved graduate courses.

Studio Specialization (39 Units*)

All student programs must emphasize from one to
three specialization(s).

The student’s graduate advisor must be from one of
the selected specializations.

All units must be approved by the student’s graduate
advisor. A minimum of 12 units must be from a
single specialization.

Select one to three specializations from the
following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>Art 520</td>
<td>Studio Problems: Video/Film Art............</td>
<td>3-3-3</td>
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<tr>
<td>Art 620</td>
<td>Advanced Studio Problems: Video/Film Art.</td>
<td>3-3-3</td>
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<tr>
<td>Art 521</td>
<td>Studio Problems: Painting ..................</td>
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<tr>
<td>Art 660</td>
<td>Advanced Studio Problems: Ceramics ......</td>
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<tr>
<td>Art 565</td>
<td>Studio Problems: Wood ....................</td>
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<tr>
<td>Art 665</td>
<td>Advanced Studio Problems: Wood ..........</td>
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<tr>
<td>Art 570</td>
<td>Studio Problems: Fiber and Fabrics ........</td>
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<tr>
<td>Art 670</td>
<td>Advanced Studio Problems: Fiber and Fabrics</td>
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<tr>
<td>Art 690</td>
<td>A-Z MFA Studio* ................................</td>
<td>3-3-3</td>
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<tr>
<td>Art 698MFA</td>
<td>MFA Thesis/Artistic Performance...........</td>
<td>3</td>
</tr>
</tbody>
</table>

* 39 unit total includes 3 units of Art 698 Thesis/Artistic Performance

**Art 690 MFA Studio is not a separate specialization.
It allows continued course work for classified MFA students
in their specialization(s).

REQUIRED COURSES (9 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Art 611</td>
<td>History &amp; Philosophy of Art...............</td>
<td>3</td>
</tr>
<tr>
<td>Art 615</td>
<td>Art Analysis &amp; Criticism ..................</td>
<td>3</td>
</tr>
<tr>
<td>Art 691A-Z</td>
<td>MFA Seminar ..................................</td>
<td>3*</td>
</tr>
</tbody>
</table>

* 3 units required; repeatable as an elective for a total of
12 units.

ELECTIVES (12 UNITS)

(Related and/or outside specialization(s)

All elective courses must be selected in consultation with
graduate advisor. Select from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 400-699</td>
<td>Elective Courses in Art............</td>
<td>3-3-3</td>
</tr>
<tr>
<td>Art 691A-Z</td>
<td>MFA Seminar ..........................</td>
<td>3-3-3</td>
</tr>
</tbody>
</table>

Additional Elective courses outside the specialization(s) may
be selected with advisor approval.

III. MFA ADVANCEMENT TO CANDIDACY

A. Advancement to Candidacy takes place when the
required preparatory course work is completed, and the
student is prepared to advance to the final Thesis/Artistic
Performance phase of the degree requirements.

B. Prerequisites to Advancement to Candidacy are:

1. Successful completion of periodic work-in-progress
evaluations.

2. Classified graduate standing with a minimum grade
point average of 3.0 in all work undertaken for the
program.

3. The removal of any incompletes or completion of
satisfactory progress (SP) grades.

4. Successful completion of the Advancement to
Candidacy Portfolio Evaluation approved by the
student’s thesis committee.

5. Department approval of the Plan for Thesis Project,
prior to registration for Art 698 MFA Thesis or Artistic
Performance.

IV. MFA TRANSFER AND RESIDENCY POLICY

A. Transfer credit allowable toward the MFA is not to
exceed 30 graduate units. The Department Studio Graduate
Committee approves all transfer credits.

B. Only courses in which the student receives a minimum
grade of “B” may be transferred.

C. Only courses completed in the last seven years may
apply to the degree.

D. MFA candidates must complete a minimum residency
consisting of 18 graduate units in their designated
specialization(s).

ELECTIVE COURSES

Refer to the Graduate Level Elective Courses on page 112.
Students may take approved 400 level courses outside their
specialization. No new elective courses are needed for
implementation.

TOTAL UNITS REQUIRED FOR THE MASTER OF
FINE ARTS DEGREE: 60

COURSE LIST

LOWER DIVISION

100. INTRODUCTION TO ART PROCESSES (3)

Experiences for the non-art major in drawing, painting,
sculpture and other art processes. Provides an
understanding of the place of art in life through actual
participation. One hour discussion, four hours studio.
Available for General Education, Humanities.) Not
available for Art Major credit.

101. INTRODUCTION TO THREE-DIMENSIONAL FORMS
AND MATERIALS (3)

An introduction for non-art majors to materials and
techniques of selected 3-dimensional art forms. Workshop
and lecture experience in a minimum of three of the
105. UNDERSTANDING THE VISUAL ARTS (3)
An introduction for the non-art major to basic concepts common to the visual arts. Illustrated lectures, demonstrations and studio projects combine to provide an understanding and appreciation of visual elements and art principles. Two hours discussion, two hours studio. (Available for General Education, Humanities.) Not available for Art Major credit.

110. HISTORY OF WESTERN ART, PRE-HISTORY THROUGH THE MIDDLE AGES (3)
Painting, sculpture, and architecture from prehistoric times to the end of the Middle Ages. An historical approach to the better understanding of our Western artistic tradition through the study of various art forms from ancient civilizations through the medieval period. (Available for General Education, Humanities for non-art major.)

111. HISTORY OF WESTERN ART, RENAISSANCE TO THE PRESENT (3)
A survey of painting, sculpture, and architecture of the Western tradition from the 14th century to the present with particular emphasis on the art object as a form of cultural expression. (Available for General Education, Humanities for non-art major.)

112. HISTORY OF NON-WESTERN ARTS (3)
A survey of arts created in the non-Western tradition emphasizing Asia, Africa, and South America from the viewpoint of fundamental human expressive decisions as embodied in structures and environmental planning, sculpture, painting, and drawing. (Available for General Education, Comparative Cultural Studies.) Course offered Fall or Spring semester.

113. ARCHITECTURAL DRAFTING (3)
Prerequisite: Art Majors, Art 141; Non-art majors consult department for equivalency. Developing skills in documenting architectural concepts through the use of models, designs, plans, and symbols. Developing an awareness of current concepts and conventions in architecture through practice, discussion, and direct observation. Media include pencil, ink, ozylite and computer assisted drafting. Emphasis is on working drawings, models. Class meets six hours per week.

124A. DRAWING I (3)
Introduction to basic drawing experiences. Graphic representation of objects stressed through a variety of techniques and media. Emphasis on form, structure, values, line, and systems of perspective and space. Six hours laboratory. (Available for General Education, Humanities for non-art major.)

124B. DRAWING I (3)
Prerequisite: Art 124A. Basic drawing experiences dealing with the human figure. Emphasis on form, structure, proportions, gesture, and systems of perspective and space. Class meets six hours per week.

124C. DRAWING I (3)
Prerequisite: Art 124A or approval of instructor. Introduction to rendering as it applies to various fields of design. Projects include rendering materials and techniques and methods of design presentation. Class meets six hours per week.

140. BEGINNING TWO DIMENSIONAL DESIGN (3)
Introduction to the elements and principles of two-dimensional design which are common to the visual arts. A foundation course stressing visual perception and an effective knowledge of the graphic means of expression and communication. Class meets six hours per week. (Available for General Education, Humanities for non-art major.)

141. BEGINNING THREE-DIMENSIONAL DESIGN (3)
A study of the elements and principles of 3-dimensional design and their applications, with emphasis on form in space, design systems, and contemporary art concepts. Experimentation in both natural and synthetic material. Class meets six hours per week. (Available for General Education, Humanities for non-art major.)

148. COLOR THEORY (3)
Prerequisite: Art 140. Introduction to the basic theories of color. Investigations into color harmony and its development as applied to two- and three-dimensional visual form. Introductory studies of physiological and psychological aspects of color are investigated. Class meets six hours per week.

151. PHOTOGRAPHY AS ART (3)
Introduction for non-art majors to the subject matter and aesthetics of photography. A review of artists’ works that have been a major influence in the field and which reflect broader issues in art. Because assignments include color slide photography, students must provide their own 35mm camera. (Available for General Education, Humanities.) Not available for Art Major credit.

200. INTRODUCTION TO VISUAL TECHNOLOGY (3)
Prerequisite: Art 124AB, 140, 141. This course is prerequisite for some upper division non-General Education studio art courses. A survey of the computer based electronic technology used by visual artists and designers. Student projects explore the creative potential of basic program options and experience how each relates to the new electronic media environment. Class meets six hours per week.

202. INTRODUCTION TO VIDEO FILM ART (3)
Introduction to the uses of video/film as a means of personal expression. Slide presentations serve as primary investigations into basic concepts of visual techniques underlying the video/film media as applied to the artistic statement. Six hours laboratory.

205. LANDMARKS OF ART (3)
An introduction for non-art majors to selected works of art and design. Illustrated lectures provide a framework for understanding the continuing relationship between art and society. Designed for General Education; however, art majors may take the course for university elective credit. (Available for General Education, Humanities.) Not available for Art Major credit.
222. ILLUSTRATION MATERIALS AND TECHNIQUES (3)
Prerequisites: Art 124A and Art 124B, or Art 244. Introduction to the use of materials and techniques used in a variety of art areas and specifically in the field of illustration. Emphasis is on understanding media potential and the development of refined technical skills required for the successful execution of illustrations. A wide range of wet and dry media tools and techniques will be covered. Nine hours laboratory.

224A DRAWING II: ANATOMY (3)
Prerequisite: Art 124B. The study of the human form and its graphic representation. Problems dealing with anatomy, form and structure introduced by studies of the posed model. Class meets six hours per week.

224B. DRAWING II: PORTRAITURE (3)
Prerequisite: Art 124B. A study of human form with emphasis on hands and the head. An investigation of the traditional techniques and concepts of portraiture. Class meets six hours per week.

226. PAINTING STYLES (3)
An introduction to selected ideas and processes of painting. Studio projects emphasize the particular points of view, stylistic qualities, interpretations of art elements and uses of media and techniques which are important in particular art movements or types of painting. Recommended for non-art majors. Six hours laboratory.

227. PAINTING I (3)
Prerequisite: Art Majors, Art 140, may be taken concurrently; non-art majors consult department for equivalency. Emphasis on two-dimensional pictorial structure. An application of design fundamentals to graphic space, organization and imagery. Use of various painting media. Class meets six hours per week.

228A. PAINTING TECHNIQUES AND MEDIA (3)
Prerequisites: Art 140, 227. A study of two-dimensional media and materials with emphasis on traditional concepts, form, imagery. Materials such as encaustic, tempera, watercolor, oils, etc., will be used. Class meets six hours per week.

228B. PAINTING TECHNIQUES AND MEDIA (3)
Prerequisites: Art majors, Art 140 may be taken concurrently; non-art majors consult department for equivalency. A study of two-dimensional media and materials with emphasis on new materials and their expresssive potential. Contemporary materials such as acrylics, plastics, fabric, natural and modern industrial materials will be used. Class meets six hours per week.

230. PERSPECTIVE (3)
Prerequisite: Art majors, Art 124A; non-art majors consult department for equivalency. The understanding and use of various systems of perspective. Emphasis upon linear perspective and applications to rendering which are based upon uses of perspective. Class meets six hours per week.

235. SCULPTURE I (3)
Prerequisites: Art majors, Art 141; non-art majors consult department for equivalency. Introduction to a variety of sculptural concepts. Involvement in basic processes, including modeling, casting, carving, and construction. Nine hours laboratory.

237. PRINTMAKING I (3)
Prerequisites: Art majors, Art 124A, 140; non-art majors, Art 140. Introduction to the materials and basic processes of printmaking with a thorough exploration of monotypes and relief techniques, including wood and linoleum cutting and other processes. Nine hours laboratory.

240. INDUSTRIAL DESIGN I (3)
Prerequisite: Art majors, Art 141; non-art majors consult department for equivalency. A beginning course in industrial design. Study of contemporary design for industry. Emphasis on aesthetic content as related to materials, manufacturing processes, and problem solving through student projects. Nine hours laboratory.

244. GRAPHIC DESIGN I (3)
Prerequisites: Art majors, 140; non-art majors consult department for equivalency. Introductory survey of the professional field of advertising and graphic design. Emphasis on fundamental principles and skills. A breadth approach is used in presenting materials, techniques and concepts of the field. Nine hours laboratory.

250. PHOTOGRAPHY I (3)
Prerequisite: Art majors, Art 140; non-art majors consult department for equivalency. Basic instruction in the creative use of the camera and printing techniques. Instruction in basic principles and darkroom experience. Emphasis on photography as a fine art, stressing beginning visual awareness and craftsmanship. Nine hours laboratory.

267. INTRODUCTION TO CERAMICS (3)
Prerequisite: Art majors, Art 141, non-art majors consult department for equivalency. Basic methods of hand building and wheel-forming. Emphasis on designing, decorating, glazing, and firing procedures. Nine hours laboratory.

272. FIBER ART/FABRIC DESIGN I (3)

277. DESIGN IN WOOD I (3)
Prerequisite: Art majors, Art 141; non-art majors consult department for equivalency. A basic course exploring the use of wood as a design medium. Studio experiences. Emphasis on design within the limitations of the material and tools. Nine hours laboratory.

296 A-Z. EXPERIMENTAL/SELECTED TOPICS IN ART (1-3)
Experimental courses in Art with course content to be determined.

UPPER DIVISION

300. DIGITAL TECHNOLOGIES IN ART (3)
301. WEB DESIGN (3)
Prerequisite: Art 200. An introduction to principles and techniques for visual and information design for websites. Course includes an introduction to website animation technologies. Nine hours laboratory.

302. VIDEO/FILM ART (3-3)
Prerequisite: Art 200. Studies in the development and techniques of video/film production as a means of personal expression. Short videos and films are created as personal artistic statements. Six hours laboratory.

303. MULTICULTURAL 3D ART (3)
This course for non-art majors presents arts and crafts from African, Asian, Latin American and Native American cultures in a manner that will allow the student to experience the making of the object and provide some understanding of the cultural and historical context in which that object is used. (Available for General Education, Humanities for non-art major.) Not available for Art Major credit.

305. ART TODAY (3)
Prerequisite: Completion of the lower-division writing requirement. An introduction for the non-art major to the art, design and architecture of our time. Illustrated lectures explore the development, techniques and ideas underlying the contemporary visual environment. Art majors may take this course for university elective credit. (Available for General Education, Humanities for non-art major.) Not available for Art Major credit.

308. COLOR APPLICATION (3)
Prerequisite: Art 140, Art 200. An exploration of the theories of color with emphasis on its application to a wide range of artistic formats. The functions of color and its associative aspects will be studied in studio activities. Two hours discussion, two hours studio.

310. HISTORY OF WESTERN ARCHITECTURE: SHELTER AND COMMUNITY (3)
Prerequisite: Completion of the lower-division writing requirement. A study of the development of Western architecture. The course stresses both fundamental elements and social and cultural factors. One segment is devoted to Los Angeles. Regular written assignments will be required. (Available for General Education, Humanities.) Not available for Art Major credit.

311. BIBLIOGRAPHY, RESEARCH METHODS AND HISTORIOGRAPHY OF ART HISTORY (3)
Prerequisites: Art 110, 111. A seminar designed to acquaint the student with basic bibliography, methods of research, and the historiography of art history. This course is required of all students who specialize in art history within the art major. Course offered Fall semester only. Does not satisfy upper division core requirement for Art Majors.

312. COMPUTER ANIMATION (3-3)
Prerequisite: Art 200 or equivalent. An investigation into the creation of computer generated imagery and its application to animation. Digital modeling and movement within virtual environments are explored in the production of short computer animations. Nine hours laboratory.

313. HISTORY OF DESIGN (3)
A study of important developments in the history of design: architecture and ornament, interior and furniture, decorative arts, textile design, industrial design, product design and graphic design. Course offered Fall semester only.

314. FURNITURE DESIGN AND CONSTRUCTION (2)
Prerequisites: Art 141 and 124C. Wood and metal construction for Interior Design students. The study of wood, metal and synthetics and their nature in the processes and techniques of furniture and object making. Six hours laboratory.

315. PERSPECTIVES IN ART HISTORY (3)
Prerequisite: Completion of the lower division writing requirement. An introduction for non-art majors. Art as a means of examining western civilization from prehistory to the present. A comparative study of the visual/plastic arts from the historical perspectives of their function in society. (Available for General Education, Comparative Cultural Studies for non-art major.) Course offered Fall and Spring semester. Not available for Art Major credit.

320. COMPUTER DRAFTING FOR INTERIOR DESIGN (1)
Prerequisite: Art 113. Emphasis on the use of various drafting programs to generate plotter drawings. Application of computer drafting skills to studio courses. Three hours laboratory.

321. 3D COMPUTER WORKSHOP (2)
Prerequisite: Art 141, 200 level course from classes listed below in area of specialization or permission of instructor. Application of computer skills to sculpture, wood, ceramics, industrial design, and fiber/fabric.

322A. ILLUSTRATION I (3)
Prerequisites: Art 200, 222. Basic principles and practices of publication and advertising illustration. Projects emphasize conceptual problem-solving, composition and the development of personal style. Projects will be designed for inclusion in a professional portfolio. Nine hours laboratory.

322B. ILLUSTRATION II (3)
Prerequisite: Art 322A and 324A. The techniques used in illustration, emphasis upon problem solving and the development of skills necessary in illustration for publication and advertising. Nine hours laboratory.

323. ANIMATION I (3)
Prerequisites: Art 124B, Art 200 and 302 or equivalent. Introduction to and overview of the theory and practice of animation. Activities cover the process of animation including conceptualization, storyboards, layout design, in-betweening, cell preparation, and clean-up drawing. Nine hours laboratory.

324A. DRAWING III: FIGURE DRAWING (3)
Prerequisites: Art 124AB, 200. Study of the human figure using models. Emphasis upon creative interpretation of structure, gesture and space as they relate to the elements of line, form, value and color. Class meets six hours per week.

24B. DRAWING III: FIGURE DRAWING AND PAINTING (3)
Prerequisite: Art 324A. Study of the human figure using models. Emphasis upon creative interpretation of structure, gesture and space as they relate to the elements of line,
335. DESIGN VISUALIZATION (3)
Prerequisite: Art 124C, 200. Experiences in rapid visualization whereby solutions to design problems will be executed in drawing form. Emphasis will be on representation of material and surface quality. This class uses marker media. Class meets six hours per week.

326. PAINTING II: ABSTRACT PAINTING (3)
Prerequisite: Art 200, 227. Emphasis upon an individuality of response to contemporary problems in painting incorporating a variety of media, techniques and concepts related to abstract painting. Class meets six hours per week.

327. PAINTING II: REPRESENTATIONAL IMAGERY (3)
Prerequisite: Art 200, 227. Emphasis upon individuality of response to contemporary problems in painting, incorporating a variety of media, techniques, and content related to representational imagery. Class meets six hours per week.

328. WATER COLOR (3-3)
Prerequisite: Art 200; upper division standing; portfolio review required for repeat credit. Transparent and opaque watercolor techniques. Emphasis on technical proficiency and creative expressions. Class meets six hours per week.

329. INTERIOR DESIGN PRESENTATION TECHNIQUES (3)
Prerequisites: Art 124AB, 140 and 200. Problems, utilizing various drawing media and techniques, stressing the elements of two-dimensional composition and pictorial organization. Class meets six hours per week.

330. DRAWING III: COMPOSITION (3-3)
Prerequisites: Art 124AB, 140 and 200. Problems, utilizing various drawing media and techniques, stressing the elements of two-dimensional composition and pictorial organization. Class meets six hours per week.

333. DESIGN PROJECTIONS (3)
Prerequisites: Art 200, 325 or 329. Advanced visual presentation of three-dimensional concepts emphasizing mixed media techniques used by interior and industrial designers. Class meets six hours per week.

335. SCULPTURE II (3-3)
Prerequisite: Art 141, 200 and 235. Further exploration of sculpture concepts and media, with emphasis upon individual invention. Nine hours laboratory.

336. ENVIRONMENTAL SCULPTURE (3)
Prerequisites: Art 141, 200 and 235. Exploration of sculptural possibilities utilizing the environment as the medium. Both group and individual projects. Experimentation in terms of concept, materials, and application. Nine hours laboratory.

337A. PRINTMAKING II: INTAGLIO (3)
Prerequisite: Art 237. Intaglio methods, including collagraph, on metal and related materials. Color processes. Nine hours laboratory.

337B. PRINTMAKING II: SERIGRAPHY (SILKSCREEN) (3)
Prerequisite: Art 200, 237. Methods and materials used to create stencils for multi-color registration and printing including photo processing. Nine hours laboratory.

337C. PRINTMAKING II: LITHOGRAPHY (3)
Prerequisite: Art 200, 237. Lithographic methods on stone or metal plates. Black/white and color processes. Nine hours laboratory.

339. FIGURE AND PORTRAIT SCULPTURE (3-3)
Prerequisite: Art 200, 235 (124B recommended). Exploration of various three dimensional means of expression utilizing the human body. Direct modeling from life in clay and wax. Emphasis upon structural analysis and personal interpretation of the figure. Experience in armature construction, mold making and casting techniques. Nine hours laboratory.

340AB. INDUSTRIAL DESIGN II (3-3)
Prerequisites: (340A) Art 124C, 141, 200, 240, and should be taken concurrently with Art 325. (340B) Art 340A. Research, analysis, and design of useful products related to aesthetic, manufacturing, and human factors with emphasis on human needs and manufacturing methods. Nine hours laboratory.

341. GRAPHIC DESIGN PRODUCTION (3)
Prerequisite: Art 200, 244. Layout, paste-up and mechanical preparations for reproduction. Introduction to color separation and half-tone screens in preparation for various printing processes used in graphic design. Nine hours laboratory.

342. EXHIBITION DESIGN (3)
Prerequisite: Art 140 or 141, Art 200. Study of the techniques of exhibition design. Problems of design and production in projects that emphasize creating gallery and related exhibitions or venues. Class meets six hours per week.

343. TYPOGRAPHY AND LETTER FORMS (3-3)
Prerequisite: Art 200; upper division standing. Theory and practice of letter forms and typography as they apply to graphics, advertising and other areas of design and visual communication. Projects cover principles of typography, letter structure, type face selection, fundamentals of computer typesetting, and typographic layout. Nine hours laboratory.

344. GRAPHIC DESIGN II (3-3)
Prerequisites: Art 200, 244. Recommended: Art 341 or equivalent. Introduction to intermediate skills and conceptual problems of the field. Stressed is the integration of theory with practical applications. Projects demand creative solutions to typical problems faced by the graphic designer. Nine hours laboratory.

346. CALLIGRAPHY (3)
Prerequisite: Art 200; upper division standing. Introduction to the fundamentals of calligraphy. Practical experience in the development of written letter forms. Projects include historical and aesthetic considerations, materials and techniques, and creative solutions to various applications of calligraphy. Class meets six hours per week.
349. PROCESS AND MATERIALS (3)
Prerequisites: Art 141, 200 and Art 240. Technical problems designed to develop a working awareness of the process of structure assemblies and finish techniques important to the field of design. Class meets six hours per week.

350AB. PHOTOGRAPHY II (3-3)
Prerequisite: (A) Art 200 and 250, (B) 350A. A continuation of the principles learned in Photography I with more advanced problems. The student is encouraged to explore the medium more fully through experience with slide making, multiple imagery, solarization, and other techniques. The history and heritage of photography is integrated into the course. Nine hours laboratory.

353. COLOR PHOTOGRAPHY (3-3)
Prerequisite: Art 200, 250 or consult Art Department for equivalency. Investigation into the various aspects of color photography which include: exposure and development of negative film; printing with color materials utilizing the subtractive color principles which underlie color filtration and correction; a brief survey of contemporary color photographers with an emphasis on the aesthetics of their works; refinement of the students' visual eye while pursuing their own stylistic expression. Nine hours laboratory.

354. COMPUTER GRAPHICS (3-3)
Prerequisite: Art 200; upper division standing in art; non-art majors consult department for equivalency. The application and principles of computer graphics as a creative technological medium. Practical experience with microcomputers in studying the potentials of graphic communication and visual expression. Nine hours laboratory.

355. LARGE FORMAT PHOTOGRAPHY (3)
Prerequisite: Art 200, 250. Exploration of the various aspects of large format (4x5" x 8x10") photography including camera operation, darkroom techniques, and artificial lighting. Emphasis on exercising control over all aspects of the image making process, including recognizing visual problems and selecting the appropriate techniques to bring about their solution. A wide range of photographic situations will be addressed. Nine hours laboratory.

356. COMPUTER PUBLISHING DESIGN (3-3)
Prerequisite: Art 200, 244. Application of graphic design principles to computer generated page layout. The design of text documents, graphic elements, and their incorporation into page layouts will be covered using current software applications. Emphasis placed on the use of the computer for decision-making and experimentation. Nine hours laboratory.

363A. ANIMATION II (3)
Prerequisite: Art 200, 323. Study of animation applications resulting in the creation of videotaped animation exercises that exhibit a basic knowledge of animation concepts such as action analysis, timing, overlapping and secondary action, pantomime, kinetics and mechanics. Students animate simple moving forms and then advance to the animation of more complex subjects. Beginning exercises in animation layout and scene design are also introduced. Nine hours laboratory.

363B. ANIMATION II (3)
Prerequisite: Art 363A. Intermediate study of animation applications resulting in the creation of videotaped animation exercises that exhibit an understanding of action analysis of human and animation forms, broad acting and pantomime, special effects, layout, perspective, timing, kinetics and mechanics. Students animate complex subjects such as bi-pedal and quadruped walk and run cycles, and characters showing gesture and emotion. Intermediate exercises in animation layout and scene design are introduced. Nine hours laboratory.

366. CERAMICS II: EARTHENWARE (3-3)
Prerequisite: Art 200, 267. Emphasis on a wide variety of hand building methods and mold making. Experimentation with clay bodies suitable for construction and casting. Kiln firings that also include saggar and Rakü. Basic glaze formulation and surface design. Nine hours laboratory.

367. CERAMICS II: STONEWARE & PORCELAIN (3-3)
Prerequisites: Art 141, 200, 267. Further development of wheel-forming skills necessary to the planning, designing, building, firing, and glazing of ceramic forms. Nine hours laboratory.

372. FIBER ART/FABRIC DESIGN II (3)
Prerequisite: Art 200, 272. The continuing study of fiber art and fabric design processes involving weaving, off loom, basic printing and dyeing with emphasis on aesthetics and design. Nine hours laboratory.

377. DESIGN IN WOOD II (3-3)
Prerequisites: Art 141, 200, 277. Studio problems in wood design and fabrication. Emphasis on problem solution consistent with principles of good design and artistic technical proficiency. Contemporary solutions will require review of historical developments in the medium. Nine hours laboratory.

380. CHILDREN'S ART (3)
Prerequisite: Junior standing. The development of fundamentals and principles for determining art experiences for children. Understanding the significance of art in the child's development. Emphasis on developing basic art skills in criticism, aesthetics, history, and studio production. Two hours discussion, two hours studio, and visits to art exhibitions. Recommended for Multiple Subjects Credential Candidates.

383. ART IN EARLY CHILDHOOD (3)
Prerequisite: Junior standing. Analysis and discussion of the significance of art in the development of young children ages three through eight combined with studio experiences in two- and three-dimensional materials. Two Hours discussion, two hours studio.

385. CHILDREN'S CRAFTS (3)
Prerequisite: Junior standing. Basic skills and understandings which provide meaningful craft experiences for children. Emphasis on the educational value of crafts. Beginning techniques and processes involving three-dimensional materials. Two hours discussion, two hours studio.
396A-Z. EXPERIMENTAL/SELECTED TOPICS IN ART (1-3)

400. DEVELOPING VISUAL LITERACY (3)
Prerequisite: Art 380, Junior standing. In-depth exploration of selected art processes culminating in a significant research paper or project. Two hours discussion, two hours studio.

401. HISTORY OF NATIVE NORTH AMERICAN ART (3)
The visual arts of North American native cultures from the Eskimo to Canada, the Northwest and Southwest areas of the United States, the Plains, and Eastern Indian societies.

402. ADVANCED VIDEO/FILM ART (3-3)
Prerequisite: Art 302. Advanced studies in Video/Film Art involving a broad range of concepts dealing with media techniques and presentation. Investigation into artistic problems leading to the development and refinement of individual artistic statements. Six hours laboratory.

403. HISTORY OF LATIN AMERICAN ART (3)
A survey of Latin American arts from pre-classic cultures in Central and South America through the evolution of high cultures to the Conquest. Art and architecture of the colonial period to the modern.

404. HISTORY OF AFRICAN AND OCEANIA ART (3)
The visual arts of sub-Saharan African Africa considered in their cultural context, including related art forms, such as literature, music, and ritual observances. The arts of the South Pacific, the tribal societies of Melanesia, Polynesia, Micronesia, and Australia.

412. HISTORY OF KOREAN ART (3)
Prerequisite: Upper division standing. The arts of Korea from the Neolithic period through the Choson period. An intensive investigation of the visual arts of the Korean peninsula including the definition of native characteristics, the understanding of the impact of Buddhism and Confucianism, a look at the relationships between elite and popular art, and the examination of the country's greatest artistic legacy, ceramics.

413. HISTORY OF CHINESE ART (3)
Prerequisite: Upper division standing. The art and architecture of China from the Neolithic period to the fall of the Manchu Dynasty.

414. HISTORY OF JAPANESE ART (3)
Prerequisite: Upper division standing. The art and architecture of Japan from the Neolithic period to the end of the Edo (Tokugawa) period.

415. HISTORY OF THE ART OF INDIA (3)
Prerequisite: Upper division standing. The art and architecture of India from prehistoric times to the nineteenth century. An intensive investigation of Buddhist and Hindu art forms and their expansion in Asia and an examination of the Indian Islamic arts.

416. HISTORY OF ANCIENT NEAR EASTERN ART (3)
Prerequisite: Art 110. The study of the architecture, sculpture, and related art forms of the ancient Near East, Mesopotamia, Anatolia, and Iran from prehistoric times to the beginning of the Sassanian Empire. Course offered Fall or Spring semester.

420. HISTORY OF GREEK ART AND ARCHITECTURE (3)
Prerequisite: Art 110. The art and architecture of the Aegean area from the early Archaic to the end of the Hellenistic Periods.

421. HISTORY OF ROMAN ART AND ARCHITECTURE (3)
Prerequisite: Art 110. The art and architecture of the Roman World from ca. 700 B.C. to 400 A.D. Course offered Fall or Spring semester.

422. ILLUSTRATION III (3-3-3-3)
Prerequisites: Art 322B and 344 or 327. Advanced study of specific problems in publication and advertising illustration. Projects require the creative implementation of the ideas, media and techniques used by illustrators. Nine hours laboratory.

423. HISTORY OF EARLY CHRISTIAN AND MEDIEVAL ART (3)
Prerequisite: Upper division standing, Art 110. A study of the art and architecture of Europe and the Mediterranean from the third century to the end of the fourteenth century.

424. DRAWING IV: LIFE DRAWING (3-3)
Prerequisite: Art 324B. Advanced problems in draftsmanship, and study of the human figure, with special emphasis on freedom of expression and experimentation. (Portfolio review is required to be eligible for enrollment for third and fourth semester repeat credit.) Class meets six hours per week.

425. HISTORY OF ITALIAN RENAISSANCE ART (3)
Prerequisite: Art 111. A study of the developments in art and architecture of Italy from 1300 to 1520 with particular emphasis on the relationship between the visual tradition and cultural context. Regular written assignments are required.

426. ART AND ARCHITECTURE OF ITALY AND SPAIN DURING THE SIXTEENTH CENTURY (3)
Prerequisite: Art 111 or the consent of the instructor. A comprehensive survey of architecture, painting and sculpture in Italy (High Renaissance and Mannerism) and Spain during the sixteenth century. Particular emphasis will be given to the relationship between style and cultural context.

427. PAINTING III (3-3-3-3)
Prerequisite: Art 326 and Art 327. Emphasis on individuality and invention through independent research and experimentation. Guidelines and objectives to be established with individuals. (Portfolio review is required to be eligible for enrollment for third and fourth semester repeat credit.) Class meets six hours per week.

428. HISTORY OF NORTHERN RENAISSANCE ART (3)
Prerequisite: Art 111. A study of the developments in art and architecture of Northern Europe from the fourteenth through the sixteenth centuries. Particular emphasis will be given to the relationship between the visual tradition and cultural context. Regular written assignments are required.

429. ADVANCED STUDY IN CONTEMPORARY PAINTING PROCESSES (3-3-3-3)
Prerequisite: Art 326. Portfolio review is required on entering the course. Projects include the use of large scale works which incorporate concepts shared by both painting and sculpture. The relationship between the techniques,
media and tools of these two areas are also explored. Projects emphasize the use of bas-relief, varied shaped or three dimensional supports. Class meets six hours per week.

430. DRAWING IV: COMPOSITION (3-3)
Prerequisite: Art 330. Advanced drawing problems in two-dimensional composition and pictorial organization. Class meets six hours per week.

431. HISTORY OF BAROQUE ART (3)
Prerequisite: Art 111. A study of the arts from the Counter Reformation (1563) to the death of Louis XIV (1715). Painting, sculpture, and architecture in Europe with a special emphasis on the arts of Italy, the Netherlands, and France. Regular written assignments are required. Course offered Fall or Spring semester.

432. HISTORY OF EUROPEAN ART 1720-1850 (3)
Prerequisite: Art 111. The development of painting, sculpture, architecture and the decorative arts in Europe from c. 1720 through 1850. Course offered Fall or Spring semester.

433. HISTORY OF EUROPEAN ART 1850-1900 (3)
Prerequisite: Art 111. The development of painting, sculpture, and architecture in Europe during the second half of the nineteenth century. Emphasis will be placed on the major figures of Impressionism, Post-Impressionism, Art Nouveau, and the close relationship between the visual arts, literature, and political history. Course offered Fall or Spring semester.

435. SCULPTURE III (3-3-3-3)
Prerequisite: Art 335. Advanced study with special consideration of conception, media, and techniques through emphasis on individual projects. (Portfolio review is required to be eligible for enrollment for third and fourth semester repeat credit.) Nine hours laboratory.

437. PRINTMAKING III (3-3-3)
Prerequisite: Art 337, 6 units. Intensive study of etching, collagraph, silkscreen, lithography or experimental processes and combinations, stressing individual growth and aesthetic control imagery and technique. (Portfolio review is required to be eligible for enrollment for third and fourth semester repeat credit.) Nine hours laboratory.

438. SENIOR PROJECTS (3) (Formerly VISUAL ARTS SEMINAR)
Prerequisite: Senior standing. Projects which afford students the opportunity to assess their training, summarize their achievements, and analyze their place in the visual arts.

439. BRONZE CASTING SCULPTURE (3-3)
Prerequisite: Art 235. Lost-wax bronze casting foundry projects. Students will create sculpture to be cast in bronze. Meets nine hours per week.

440A. INDUSTRIAL DESIGN III (3)
Prerequisites: Art 340AB. An advanced course in industrial design. Intended to present students with professional design problems involving client-designer relationships and industry. The student will be required to produce prototypes, mechanical drawings, and renderings of their design solutions. Nine hours laboratory.

440B. INDUSTRIAL DESIGN III (3-3-3)
Prerequisite: Art 440A. Advanced industrial design involving a broad range of professional design problems such as client designer relationships and industry. Students will be required to produce prototypes, mechanical drawings, and renderings of their design solutions. If applicable, the course will prepare students for product commercialization. (Portfolio review is required to be eligible for enrollment for second and third semester repeat credit.) Nine hours laboratory.

441. HISTORY OF AMERICAN ART (3)
Prerequisite: Art 111. A study of the American tradition of art and architecture from 1620 to the early twentieth century. Course offered Fall semester only.

443. ANIMATION DRAWING (3)
Prerequisites: Art 224A and 324A. Exploration of the various forms of drawing related to the field of animation. Direct drawing of the human figure from models; drawing a variety of animals from live observation; and development of layout drawing used for background painting. Emphasis will be on volume, mass, weight, movement/gesture, conveying attitude, dramatic expression, action poses, acting, anatomy, consistent perspective and economy of line. Six class hours per week.

444. GRAPHIC DESIGN III (3-3)
Prerequisite: Art 344. Advanced and complex problem solving consistent with those of graphic designers in the field. Emphasis on project of substantive scope, integration of skills and presentation. Students should have developed a professional resume and portfolio by the end of this series. Nine hours laboratory.

445. HISTORY OF MODERN ART (3)
Prerequisite: Art 111. An investigation of major movements in twentieth-century painting, sculpture, architecture with reference to the social, economic, and ideological context. Course offered Fall and Spring semester.

446. PACKAGING DESIGN (3-3)
Prerequisite: Art 344. Designing for product containers, identification graphics, product line packaging, and related display. Coordination of the fundamental elements of packaging such as typography, color, imagery, and packaging structure. Nine hours laboratory.

447A. ADVANCED INTERIOR DESIGN (3)
(Prerequisite course banked.) Advanced studies in interior design emphasizing commercial and contract interiors. Primary focus on public needs rather than individual requirements. Continued use of contemporary media including computer assisted drawing. Nine hours laboratory.

447B. ADVANCED INTERIOR DESIGN (3)
Prerequisite: 447A. Advanced studies in interior design emphasizing public and community institutional structures. Oral presentations will develop understanding of client-designer relations. Presentation will include prototypes, models, detailed renderings and cost projections. Nine hours laboratory.
448. HISTORY OF CONTEMPORARY ART (3)
Prerequisites: Art 111, 445. A course that deals with American and European art from mid-century to the present. Included is a study of developments in non-traditional media, crafts and popular arts as well as painting and sculpture. Regular written assignments are required. Course offered Fall or Spring semester.

450. PHOTOGRAPHY III (3-3-3-3)
Prerequisites: 350AB. Advanced problems in photography. Emphasis on content; the student is encouraged to apply technical and expressive skills in photography toward some original and meaningful use of the medium. The student is required to present original project to the class for discussion and is then required to execute them. (Portfolio review is required to be eligible for enrollment for third and fourth semester repeat credit.) Nine hours laboratory.

455A. ADVERTISING PHOTOGRAPHY I (3)
Prerequisites: Art 250. The professional problems, techniques and equipment of advertising photography. Activities include: the use of large format camera, equipment, professional lighting, environmental and studio product photography, professional printing, and print finishing techniques. Nine hours laboratory.

455B. ADVERTISING PHOTOGRAPHY II (3)
Prerequisite: Art 455A. Advanced projects in advertising photography. Emphasis on problems of large product and exterior photography, portrait and figure studies and uses of complex lighting. Nine hours laboratory.

455C. ADVANCED ADVERTISING PHOTOGRAPHY (3-3)
Prerequisite: Art 455B. Investigation of advanced advertising problems in photography exploring both the technical and conceptual challenges of visual communication. Advanced projects in portraiture, fashion, table-top, photo-illustration, editorial will be addressed. Computer imaging will be introduced and become an important area of investigation. Nine hours laboratory.

458. GRAPHICS SEMINAR (2)
Prerequisites: Senior standing, 344; and six additional units of upper division advertising graphics. A review of career options that relate to advertising graphics. The study of particular problems faced by the graduate in selecting, planning and becoming established in a profession. Discussions and assignments are designed to aid the student in meeting professional requirements.

461. HISTORY OF GRAPHIC ARTS (3)
A history of the development of the original print as a work of art from the fifteenth century to the present, including relief, intaglio, and planographic media. Course offered Spring semester only.

462. HISTORY OF PHOTOGRAPHY (3)
A course which emphasizes the aesthetics of photography and its emergence and acceptance as a fine art. In addition to slide lectures and discussions, students will be required to attend several photography exhibitions and lectures at galleries and museums in the area.

464. HISTORY OF THE CITY OF ROME (3)
Prerequisite: Art 110 or 111 or consent of instructor. A study of the development of the architecture and the urban planning of the city of Rome from the beginning to the present, which will also, through literature, take into account the flavor of life in the city.

467. CERAMICS III (3-3-3-3)
Prerequisites: Art 366 and 367. Throwing, plaster casting, glazing, and stacking the kiln for bisque and glaze firing. Lectures and discussions on clay bodies, glaze composition, methods of decoration, and the design of ceramic forms. (Portfolio review is required to be eligible for enrollment for third and fourth semester repeat credit.) Nine hours laboratory.

468. HISTORY OF WOMEN IN THE VISUAL ARTS (3)
Prerequisite: Art History 111 or 112. Women's Studies 200 strongly recommended. Covers the history of women as artists in the European and American traditions. Art by women in non-Western cultures will also be studied, together with related issues such as images of women and feminist art analysis. Course offered Fall or Spring semester.

470. DESIGN ON FABRIC III (3-3)

472. STUDIO PROBLEMS IN FABRIC AS ART (3-3-3-3)
Prerequisites: Art 470 or 474 or 475. Advanced projects in design and structure of fabric with emphasis on concept and individual expression. Two- and three-dimensional forms and advanced pattern development will be explored. (Portfolio review is required to be eligible for enrollment for third and fourth semester repeat credit.) Nine hours laboratory.

474. DECORATIVE DESIGN/TEXTILES AND RELATED SURFACES (3)
Prerequisites: Upper division standing and portfolio. Development of original designs suitable for mass-produced textiles and related surfaces such as paper goods, china, and stationery using various color media on paper. Limitations relating to function, style, production, and other technical considerations will be explored. Nine hours laboratory.

475. FIBER ART III (3-3)
Prerequisite: Art 372. Advanced problems in fiber structure methods and processes both loom and non woven. Emphasis on design. Nine hours laboratory.

477. DESIGN IN WOOD III (3-3-3-3)
Prerequisites: Art 377. Advanced studio problems in wood design and fabrication. Particular emphasis upon the maturity and depth of design solutions. (Portfolio review is required to be eligible for enrollment for third and fourth semester repeat credit.) Nine hours laboratory.

479. ART EDUCATION ACROSS CULTURES (3)
Prerequisite: Junior standing. Provides knowledge and practice in planning and relating art experiences and increases teacher effectiveness in cross-cultural teaching of the arts. Two hours discussion, two hours studio. Meets requirement for multicultural education for Multiple and Single Subject Credentials - Category B for the Clear Credential.
480. ART EXPERIENCES FOR EXCEPTIONAL CHILDREN (3)
The significance of art for exceptional children including the deaf, blind, emotionally disturbed, learning handicapped, hospitalized children and the gifted. Two hours discussion, two hours studio. Meets the Special Education requirement for a Clear Credential for Single Subject Credential; Art only.

481. ART AS THERAPY (3)
Prerequisite: Senior standing. A study of main theoretical trends in Art Therapy, practice and historical development. Studio experiences with appropriate art materials. Two hours discussion, two hours studio. Course offered fall semester.

484. ART EDUCATION PORTFOLIO (1)
Prerequisite: Complete admission to Teacher Education Program (Credentials Office). A capstone course in which students are assessed in their subject matter competency prior to student teaching. This course must be successfully completed to be cleared for entrance into student teaching. Credit/No Credit only.

485. STUDIO PROBLEMS IN TEACHING CRAFTS (3)
Prerequisite: Junior standing. Emphasis on the development of basic skills in a variety of crafts, such as: weaving, textiles, ceramics, wood, and paper. Introduces the student to principles of design and craftsmanship. Discussions of aesthetics, criticism, and cultural heritage related to the crafts accompany the studio component. Develops strategies for integrating these skills and understandings into a variety of education and recreational settings. One hour discussion, four hours of studio. Required for a Single Subject Credential in Art.

486. STUDIO PROBLEMS IN TEACHING ART (3)
Prerequisite: Junior standing. Skills and understandings related to organizing and developing strategies for teaching art in a variety of educational settings. Emphasis upon two-dimensional media such as drawing, watercolor painting, poster painting and printmaking. Two hours discussion, two hours studio. Required for a Single Subject Credential in Art. Course offered spring semester.

487. PUPPETRY (3)
Prerequisite: Junior standing. This course examines the art of the puppet in its various forms: rod, string, hand, and shadow. Application to schools, libraries, hospital, recreation, special education and other settings. Two hours discussion, two hours studio.

494. INTERNSHIP IN ART (3-3)
Prerequisites: Senior or graduate standing, portfolio review. Experiential education in appropriate aspects of specific area of interest. Six units maximum. An Academic Internship course. Available for Art Major credit. Offered Credit/No Credit basis only.

495A-Z. EXTENDED STUDY (3-3)
Prerequisite: Senior standing and prerequisite course in selected study area (listed below), consent of instructor, student’s art advisor and the Department Chair. A portfolio will be required by the course instructor. Continued study in designated studio areas. Students will attend the scheduled class of the prerequisite course. Only one Extended Study is permitted in each study area and a maximum of six units may be applied toward a degree requirement.

Activity courses, six class hours per week
A. Anatomy, prerequisite: 224A
B. Portraiture, prerequisite: 224B
C. Design Visualization, prerequisite: 325
D. Watercolor, prerequisite: 328
E. Design Projections, prerequisite: 333
F. Exhibition Design, prerequisite: 342
G. Process and Materials, prerequisite: 349
H. Animation II, prerequisite: 363B
I. Animation Drawing, prerequisite: 443

Laboratory courses, nine hours per week
N. Large Format Photography, prerequisite: 355
O. Decorative Design/Textiles and Related Surfaces Prerequisite: 474

496A-Z. EXPERIMENTAL/SELECTED TOPICS IN ART (1-3)
Experimental courses in Art with course content to be determined.

499. INDEPENDENT STUDY (1-6)
Enrollment in Independent Study (499) is by permission of the department chair and consent of an instructor to act as a sponsor. Admission is based on evidence of ability to pursue independent study in depth and approval of a project submitted at the time of registration. Regular progress meetings and reports are required throughout the semester. Completion of the project is required before credit may be received. No more than six units of credit in 499 may be earned toward the Bachelor’s Degree in Art. Enrollment in Independent Study is not allowed for the purpose of substitution for an existing course.

GRADUATE COURSES
(300-level courses in Art do not carry credit for a Master's in Art; 400-level courses in Art carry credit for a Master's in Art only if they are approved by the department and graduate adviser.) Qualifed Undergraduate Seniors may take 500 level courses with consent of the instructor.

500. HISTORY OF ART MUSEUMS AND COLLECTING IN WESTERN CIVILIZATION (3)
Prerequisite: Art 110 and 111 and two 400-level courses in art history. A study of how the museum concept has developed through the centuries, the survey of the most important public museums in the world and their content. The importance of art collecting since the nineteenth century and problems in museology.

502. GALLERY AND MUSEUM PRACTICES (3)
Introduction to problems in gallery and museum organization, management, and administration, including preparatorial and curatorial functions.

520. STUDIO PROBLEMS: VIDEO/FILM ART (3-3)
Prerequisite: Graduate standing and consent of instructor. Investigation of artistic problems in video/film art, exploration leading to resolution of artistic statements. Problem solving involved in the development of artistic
concepts dealing with media techniques and presentation. Increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

521. STUDIO PROBLEMS: PAINTING (3-3-3-3)
Prerequisite: Graduate standing and consent of instructor. Investigation of artistic problems in painting, exploration leading to resolution in artistic statements. Problems of increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

524. STUDIO PROBLEMS: DRAWING (3-3-3-3)
Prerequisite: Art 424. Investigation of advanced problems in drawing or in drawing and related art disciplines. Projects of increasing complexity which require evidence of greater depth and skill in the resolution of visual statements. Class meets one hour per week in seminar and five hours per week in supervised studio work.

525. STUDIO PROBLEMS: PRINTMAKING (3-3-3-3)
Prerequisite: Graduate standing and consent of instructor. Investigation of artistic problems in printmaking, exploration leading to resolution in artistic statements. Problems of increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

535. STUDIO PROBLEMS: SCULPTURE (3-3-3-3)
Prerequisite: Graduate standing and consent of instructor. Investigation of advanced problems in sculpture.

539. ADVANCED FIGURE STUDY (3-3-3-3)
Prerequisite: Art 339. Advanced sculptural problems dealing with the human figure. Large scale sculpture from the model emphasizing expressive content. Nine hours laboratory.

540. STUDIO PROBLEMS: DESIGN (3-3)
Prerequisite: Graduate standing and consent of instructor. Investigation of artistic problems in design, exploration leading to resolution in artistic statements. Problems of increasing complexity and greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

560. STUDIO PROBLEMS IN CERAMICS DESIGN (3-3)
Prerequisite: Graduate standing and consent of instructor. Investigation of artistic problems in ceramics and/or glass design, exploration and experimentation leading to resolution in artistic statements. Problems in increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

565. STUDIO PROBLEMS IN WOOD (3-3)
Prerequisite: Graduate standing and consent of instructor. Investigation of artistic problems in wood exploration and experimentation leading to resolution in artistic statements. Problems in increasing complexity and evidence of greater depth of artistic concept required in the sequence or course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

570. STUDIO PROBLEMS IN FIBER AND FABRICS (3-3)
Prerequisite: Graduate standing and consent of instructor. Investigation of artistic problems in fiber and fabrics, exploration and experimentation leading to resolution in artistic statements. Problems in increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

590. HISTORY AND PHILOSOPHY OF ART EDUCATION (3)
Prerequisite: Junior standing. Intensive study of the historical and chronological development of Art Education in America and abroad. Emphasis on significant trends and movements which have affected its growth and present structure. May be used as upper division art elective for B.A. degree. Required for Single Subject Credential in Art.

611. HISTORY AND PHILOSOPHY OF ART (3)
Prerequisite: Graduate standing; one year of history of art; two years recommended. Seminar examining the development of movements and ideas in twentieth century art. Research in modern art and artists. Course offered Fall semester only.

615. ART ANALYSIS AND CRITICISM (3)
Prerequisite: Minimum one year history of art; graduate standing. Seminar exploring the critical approach to the work of art in terms of form, content, and expression. Aesthetic and methodological problems will be treated in particular relationship to contemporary art and its criticism. Course offered Spring semester only.

619. SEMINAR IN ART HISTORY (3-3)
Prerequisite: Classified graduate standing and Art History 311 or its equivalent. Research in depth on specific problems of art history. Restricted to graduate students in Art History or consent of the instructor.

620. ADVANCED STUDIO PROBLEMS: VIDEO/FILM/ART (3-3-3-3)
Prerequisites: Classified graduate status or with advisors approval. Investigation into advanced concepts involved in the production of video/film and digital art forms. The resolution of problems dealing with media, technique and presentation will be explored. Increasing complexity and evidence of conceptual depth is required in the sequence of course work. Class meets six hours per week in supervised studio work.

621. ADVANCED STUDIO PROBLEMS: PAINTING (3-3-3-3)
Prerequisites: Classified Graduate standing and consent of instructor. Investigation of artistic problems in painting, exploration leading to resolution in artistic statements. Problems of increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.
624. ADVANCED STUDIO PROBLEMS: DRAWING (3-3-3-3)  
Prerequisite: Classified Graduate standing and consent of instructor. Investigation of advanced problems in drawing and related art disciplines. Projects of increasing complexity which require evidence of greater depth and skill in the resolution of visual statements. Class meets one hour per week in seminar and five hours per week in supervised studio work.

625. ADVANCED STUDIO PROBLEMS: PRINTMAKING (3-3-3-3)  
Prerequisite: Classified Graduate standing and consent of instructor. Investigation of artistic problems in printmaking, exploration leading to resolution in artistic statements. Problems of increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

626. ADVANCED STUDIO PROBLEMS IN FIBER & FABRICS  
Prerequisite: Classified Graduate standing and consent of instructor. Investigation of artistic problems in fibers and fabrics, exploration and experimentation leading to resolution in artistic statements. Problems of increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

627. ADVANCED STUDIO PROBLEMS: SCULPTURE (3-3-3-3)  
Prerequisite: Classified Graduate standing and consent of instructor. Investigation of advanced problems in sculpture. Problems of increasing complexity and greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

630. ADVANCED STUDIO PROBLEMS IN CERAMICS DESIGN (3-3-3-3)  
Prerequisite: Classified Graduate standing and consent of instructor. Investigation of advanced problems in ceramics, exploration and experimentation leading to resolution in artistic statements. Problems in increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

635. ADVANCED STUDIO PROBLEMS: SCULPTURE (3-3-3-3)  
Prerequisite: Classified Graduate standing and consent of instructor. Investigation of advanced problems in sculpture. Problems of increasing complexity and greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

640. ADVANCED STUDIO PROBLEMS: DESIGN (3-3-3-3)  
Prerequisites: Classified Graduate standing and consent of instructor. Investigation of artistic problems in design, exploration leading to resolution in artistic statements. Problems of increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

665. ADVANCED STUDIO PROBLEMS IN WOOD (3-3-3-3)  
Prerequisite: Classified Graduate standing and consent of instructor. Investigation of artistic problems in wood, exploration and experimentation leading to resolution in artistic statements. Problems in increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

670. ADVANCED STUDIO PROBLEMS IN FIBER & FABRICS (3-3-3-3)  
Prerequisite: Classified Graduate standing and consent of instructor. Investigation of artistic problems in fiber and fabrics, exploration and experimentation leading to resolution in artistic statements. Problems in increasing complexity and evidence of greater depth of artistic concept required in the sequence of course work. Class meets one hour per week in seminar and five hours per week in supervised studio work.

681B. SEMINAR IN ART EDUCATION (3)  
Prerequisite: Classified Graduate standing (may be taken concurrently with 681A). Investigation and identification of areas in greatest need of research in art education. Special emphasis on selection of projects most appropriate for development and for advanced research.

686. RESEARCH IN ART EDUCATION (3-3)  
Prerequisite: Graduate standing. Art 681B may be taken concurrently. Current experiments and studies in art education; problems of conducting research unique to the area of investigation. Development of research studies with emphasis on design, criteria, measurement, and standards of proof. Restricted to M.A. Art candidates.

696A-C. DIRECTED GRADUATE RESEARCH (1-3)  
Prerequisite: Classified status and consent of adviser.

ART 698MA. M.A. THESIS/ARTISTIC PERFORMANCE (3)  
Prerequisites: Classified Graduate standing, completion of or current enrollment in all required Area of Concentration courses for the M.A. degree in Art, permission of graduate advisor and thesis committee, and conformance to university standards for graduate thesis. This course provides the M.A. degree candidate with a culminating experience, approved and supervised by the student's Thesis Committee, to be undertaken only with the consent of the student’s Thesis Committee after all other requirements have been met. This course will encompass the preparation, completion and formal presentation of the culminating work for the degree. Within the Master of Arts in Art program there are three areas of study: Art Education, Art History and the Studio Arts. Each of these areas of study follows its own specific department-approved procedures. The final form of the thesis must adhere to University regulations for thesis presentation and be approved by the Office of Graduate Research & International Programs.

699. INDEPENDENT STUDY (1-6)  
Enrollment limited to qualified classified graduate students with the permission of the department, graduate adviser and the departmental graduate committee. Intensive independent investigation into that area of the fine arts in which the graduate student is specializing.

improving teaching methods and inquiry into other disciplines for related implications. Identification of areas of greatest need for research. Graduate students from outside the department of Art permitted with consent of instructor.
M.F.A.

ART 690 A-Z. M.F.A. STUDIO (3-3-3-3)
Prerequisites: M.F.A. Classified status, permission of instructor and graduate advisor. Investigation of advanced artistic problems leading to a highly specialized and personal aesthetic.

ART 691 A-Z. M.F.A. SEMINAR (3-3-3-3)
Prerequisite: M.F.A. Classified status. An orientation to the procedures and requirements of the MFA professional degree program in Studio Arts. Exploration into career development, professional issues, and writing about art. Philosophies pertaining to disciplines in the visual arts will be examined through a series of guest lectures.

ART 698MFA. M.F.A. THESIS/ARTISTIC PERFORMANCE (3)
Prerequisites: M.F.A. Classified status, completion of or current enrollment in all required Area of Specialization courses for the M.F.A. degree, permission of Graduate Advisor and Thesis Committee, and conformance to University standards for graduate thesis. This course provides the M.F.A. candidate with a culminating experience, approved and supervised by the degree committee, which will present the artistic endeavors pursued during the graduate program. This consists of an exhibition and/or performance of the student’s work, photographic documentation and a written statement addressing the aesthetic, philosophical and, when appropriate, technical aspects of the work. The final form of the thesis must adhere to University regulations for thesis presentation and be approved by the Office of Graduate Research & International Programs.

ART 698MA. M.A. THESIS/ARTISTIC PERFORMANCE (3)
ART 698MA. M.A. THESIS/ARTISTIC PERFORMANCE (6)
Prerequisites: Classified graduate standing, completion of or current enrollment in all required
ASIAN AMERICAN STUDIES DEPARTMENT

Chair: Enrique de la Cruz

COLLEGE OF HUMANITIES

Department Office: SH 103
Phone: (818) 677-4966 FAX (818) 677-7094
Secretary: Liza Kraay

FACULTY: Enrique de la Cruz (Chair), Gordon Nakagawa, James Sobredo, George Uba, Teresa Kay Williams-Leon

DEGREES OFFERED: B.A. Major in Asian American Studies, Minor in Asian American Studies

CREDENTIAL INFORMATION: Students interested in applying Asian American Studies courses towards requirements for various teaching credentials should consult the department for a current list of approved offerings.

DEPARTMENT PROGRAMS: The Asian American Studies Department provides an interdisciplinary liberal arts program. The department offers a Bachelors of Arts Major and a Minor in Asian American Studies designed to provide students with critical analysis, writing, communication, and reasoning skills while retrieving, documenting, and analyzing the literary, artistic, economic, social, political, and historical experiences of Asians in the United States. The objectives of both programs are to:

- articulate the complex issues in Asian American Studies
- articulate the complexities of race, class, and gender in the United States and within a global context
- provide a broad interdisciplinary exposure in literary analysis, historical analysis, contemporary issues, and cultural affairs
- articulate the complexities of American society
- develop critical analysis skills and the methodologies to analyze social issues
- build on the CSUN General Education program
- provide students with a liberal arts education demonstrated by critical reasoning, writing, reading, and communication skills at the post-college level
- provide an opportunity to demonstrate the integration of the undergraduate experience

The department also participates in the CSUN General Education Program. Many courses in the Minor meet General Education requirements and may be used for both purposes.

CAREERS: Students interested in careers in business, government, education, journalism, human services, urban planning, law, and other related fields may find the Major or Minor in Asian American Studies as a suitable field of study. Students interested in the Major or Minor in Asian American Studies must consult with a department advisor. The Asian American Studies Department supports international education and encourages students to investigate opportunities for overseas and foreign language study. Of particular interest to Asian American Studies students are study abroad opportunities throughout the Pacific Rim. For overseas studies, students should consult an advisor in the Office of International and Exchange Programs and a department advisor to coordinate their studies.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

OPTION A: STANDARD MAJOR

CORE COURSES: (15 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 100</td>
<td>Introduction to Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AAS 201</td>
<td>Race, Racism, and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>AAS 210</td>
<td>History of Asians in America</td>
<td>3</td>
</tr>
<tr>
<td>AAS 220</td>
<td>Survey of Asian American Literature</td>
<td>3</td>
</tr>
<tr>
<td>AAS 390</td>
<td>Asian American Communities:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Field Practicum</td>
<td></td>
</tr>
</tbody>
</table>

COMMUNITY STUDIES: (6 UNITS)

Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 310</td>
<td>Methodologies in Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AAS 345</td>
<td>Contemporary Issues in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Asian American Studies</td>
<td></td>
</tr>
<tr>
<td>AAS 347</td>
<td>Asian American Legal &amp;Political History</td>
<td>3</td>
</tr>
<tr>
<td>AAS 360</td>
<td>Asian American Immigration-Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>AAS 440</td>
<td>Urbanization and Asian American Communities</td>
<td>3</td>
</tr>
</tbody>
</table>

CULTURAL AND LITERARY STUDIES: (6 UNITS)

Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 230</td>
<td>Asian Americans and the Media</td>
<td>3</td>
</tr>
<tr>
<td>AAS 321</td>
<td>Asian American Fiction</td>
<td>3</td>
</tr>
<tr>
<td>AAS 325A-B</td>
<td>Asian American Creative Studies</td>
<td>3*</td>
</tr>
<tr>
<td>AAS 420</td>
<td>Asian American Literary Workshop</td>
<td>3*</td>
</tr>
<tr>
<td>AAS 430</td>
<td>Asian Americans and Popular Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

SOCIAL RELATIONS, FAMILY, AND GENDER STUDIES: (6 UNITS)

Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 340</td>
<td>Asian American Women</td>
<td>3</td>
</tr>
<tr>
<td>AAS 350</td>
<td>Asian American Personality and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mental Health</td>
<td></td>
</tr>
<tr>
<td>AAS 355</td>
<td>Biracial and Multiracial Identity</td>
<td>3</td>
</tr>
<tr>
<td>AAS 455</td>
<td>Asian American Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>AAS 453</td>
<td>Asian American Families</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVES: 6 UNITS

Select six units of electives either in Asian American Studies or from another department with permission from advisor. Intermediate language study in an appropriate Asian or Pacific Island language is highly recommended and would qualify under this section.

SENIOR CAPSTONE: 3 UNITS

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 495</td>
<td>Advanced Seminar in Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AAS 497</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS REQUIRED FOR DEGREE: 42

OPTION B: DOUBLE MAJOR/SINGLE SUBJECT WAIVER: (Designed for students who choose to double major in Asian American Studies and second field of study or pursue a single subject waiver)

CORE COURSES: (9 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 100</td>
<td>Introduction to Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AAS 210</td>
<td>History of Asians in America</td>
<td>3</td>
</tr>
<tr>
<td>AAS 220</td>
<td>Survey of Asian American Literature</td>
<td>3</td>
</tr>
</tbody>
</table>
COMMUNITY STUDIES: (6 UNITS)
Select two of the following:
AAS 310 Methodologies in Asian American Studies.....3
AAS 347 Asian American Legal and Political History..3
AAS 360 Asian American Immigration-Global Perspective........................................3
AAS 390 Asian American Communities: Field Practicum ....................................3
AAS 440 Urbanization and Asian American Communities ........................................3

CULTURAL AND LITERARY STUDIES: (6 UNITS)
Select two of the following:
AAS 321 Asian American Fiction ..................................3
AAS 325A-B Asian American Creative Studies Workshop ........................................3
AAS 420 Asian American Literary Self-Representation ........................................3
AAS 430 Asian Americans and Popular Culture ......3

SOCIAL RELATIONS, FAMILY, AND GENDER ISSUES: (6 UNITS) Select two of the following:
AAS 340 Asian American Women ..................................3
AAS 355 Biracial and Multiracial Identity ....................3
AAS 455 Asian American Sexuality ................................3
AAS 453 Asian American Families ................................3

SENIOR CAPSTONE: (3 UNITS) Select one of the following:
AAS 495 Advanced Seminar in Asian American Studies ........................................3
AAS 497 Senior Thesis ......................................................3

SECOND MAJOR OR COMPLETION OF A SINGLE SUBJECT WAIVER PROGRAM: UNITS VARY
TOTAL UNITS REQUIRED FOR DEGREE: 30 PLUS
SECOND MAJOR OR SINGLE SUBJECT WAIVER PROGRAM
Three to six units of intermediate study of an Asian or Pacific Island language are highly recommended and may be substituted for courses in Option A or B with the approval of a department advisor. Special topics courses, experimental topics courses, and/or independent study in Asian American Studies may be substituted for required courses in either major option with the permission of an advisor.

MINOR REQUIREMENTS

COURSE OPTIONS: 9 UNITS
AAS 100 Introduction to Asian American Studies......3
AAS 210 History of Asians in America .........................3
AAS 220 Survey of Asian American Literature ........3

UPPER DIVISION REQUIREMENTS: (15 UNITS) Select five of the following:
AAS 321 Asian American Fiction ..................................3
AAS 325A-B Asian American Creative Studies Workshop ........................................3
AAS 340 Asian American Women ..................................3
AAS 345 Contemporary Issues in Asian American Studies ........................................3
AAS 350 Asian American Personality and Mental Health ........................................3

AAS 360 Asian American Immigration-Global Perspective........................................3
AAS 450 Asian American Child and the Schools......3
AAS 495 Advanced Seminar in Asian American Studies .................................3
AAS 497 Senior Thesis ......................................................3

*Only one course in the AAS 325A-B series may be applied to the minor. Elective in Asian American Studies or related fields may be substituted for the above required courses with prior approval of the minor advisor and the Chair of the department.

TOTAL UNITS IN MINOR: 24

GENERAL EDUCATION OVERLAP

OPTION A: STANDARD MAJOR
For Option A, the following courses may be counted for the Standard Major and General Education:
Section A.2 AAS 201
Section B AAS 453
Section C.1 AAS 220 or AAS 321
Section D AAS 210 or AAS 350
Section E AAS 230 or AAS 390
Section F.2 AAS 360
Section F.3 AAS 100, AAS 340, or AAS 345

OPTION B: DOUBLE MAJOR/SINGLE SUBJECT WAIVER
For Option B, the following courses may be counted for the Double Major and General Education:
Section A AAS 450
Section B AAS 453
Section C.1 AAS 220 or AAS 321
Section D AAS 210 or AAS 350
Section E AAS 230 or AAS 390
Section F.2 AAS 360
Section F.3 AAS 100 or AAS 340

MINOR
The following courses may be counted for the Minor and General Education:
Section C.1 AAS 220 or AAS 321
Section D AAS 210 or AAS 350
Section E AAS 230
Section F.2 AAS 360
Section F.3 AAS 100, AAS 340, or AAS 345

COURSE LIST
LOWER DIVISION
AAS 097. DEVELOPMENTAL READING (3)
Intensive study of basic reading skills, focusing on the type of reading students will do in college. Designed for English as a Second Language students whose reading score on the English Placement Test requires them to complete this course before taking AAS 098 or the equivalent. Available on CR/NC basis only.

AAS 098. DEVELOPMENTAL WRITING (3)
Intensive study of basic writing skills with special focus on English as a Second Language students whose scores on the English Placement Test indicate serious deficiencies must take this course or its equivalent. Grade of Credit is required to enter AAS 155 or its equivalent. Available on a CR/NC basis only.
AAS 100. INTRODUCTION TO ASIAN AMERICAN STUDIES (3)
Survey of research on Asians in America, including history, community life, language experience, arts, education, politics, and economics. The course will emphasize research on Americans of Chinese, Filipino, Japanese, Korean, Southeast Asian, South Asian, and Pacific Island ancestry. (Available for General Education, Comparative Cultural Studies and available for Section B of the Multicultural Credential Requirement for Credential Candidates.)

AAS 201. RACE, RACISM, AND CRITICAL THINKING (3)
Prerequisite: Completion of GE Section A.1 (Composition) and GE Section A.3 (Math). Introduction to the process of critical thinking through the lens of race-based theories and selected historical and contemporary discourse of African-Americans, Asian Americans, European Americans, and Latinos on race relations and multiculturalism in American society. Examines contemporary social issues through the use of scholarly studies and a range of cultural “texts” in order to explore the effects of race and racism on the relationship between language and logic, processes and form of reasoning, and practices of critical reflection. The intersection of race, gender, and class will also be examined. (Available for General Education, Section A2: Critical Reasoning, Basic Subjects.)

AAS 210. HISTORY OF ASIANS IN AMERICA (3)
Introduction to the history of Asian Americans in the United States from the 1800s to the present. Students will review the historical forces affecting immigration of the following communities: Chinese, Japanese, Filipino, Korean, Asian Indian, Southeast Asian, and Pacific Islander. Students will analyze the problems resulting from limited access to the social, political, and economic institutions of American society. (Available for General Education, Social Sciences.)

AAS 220. SURVEY OF ASIAN AMERICAN LITERATURE (3)
Prerequisite: Completion of the lower division writing requirement. Survey of Asian American literature from the late Nineteenth Century to the present. An introductory study of prose fiction and non-fiction, poetry, and drama written by Americans of Chinese, Japanese, Korean, Filipino, Southeast Asian, South Asian, and Pacific Island ancestry. Regular writing assignments required. (Available for General Education, Humanities.)

AAS 230. ASIAN AMERICANS AND THE MEDIA (3)
Study of the effects of mass media on the history and development of Asians in America. Particular attention to Asian American images in film, television, and advertisements. (Available for General Education, Applied Arts and Sciences.)

AAS 296A-Z. EXPERIMENTAL COURSES IN ASIAN AMERICAN STUDIES (1-3)
Experimental courses in Asian American Studies with course content to be determined.

AAS 310. METHODOLOGIES IN ASIAN AMERICAN STUDIES (3)
Prerequisite: Completion of the lower division writing requirement and AAS 100. Introduces students to research methodologies in Asian American Studies. Utilizing an interdisciplinary approach, the course teaches students historical documentation, archival research, oral history, participant observation, government documents and statistics, survey date analysis, and writing research conclusions.

AAS 321. ASIAN AMERICAN FICTION (3)
Prerequisite: Completion of the lower division writing requirement. Study of Asian American fiction written by Americans of Chinese, Japanese, Korean, Filipino, South Asian, and Southeast Asian ancestry. Regular writing assignments will be required. (Available for General Education, Humanities.)

AAS 325A. ASIAN AMERICAN CREATIVE STUDIES WORKSHOP: LITERARY ARTS (3)
Prerequisite: Completion of the lower division writing requirement. This course will offer intensive practice in the writing of poetry and prose fiction. The course will include analysis of published Asian American writings and a series of writing exercises and/or writing assignments that will culminate in a portfolio of not less than 4000 words. The course will offer perspectives on the shifting definitions of “Asian American” and on the Populist/Activist and Academic/Literary approaches that have helped shape the contours of Asian American creative writing. Students will participate in the written and oral critiques of each other’s work.

AAS 325B. ASIAN AMERICAN CREATIVE STUDIES WORKSHOP: PERFORMANCE ARTS (3)
This course involves the study and practice of Asian American performance with particular emphasis on adapting, scripting, and performing personal, family, and community-based narratives. Students will also gain competencies in the analysis, performance, and criticism of Asian American dramatic and non-dramatic, non-traditional texts, including (auto)biographies, memoirs, diaries, oral histories, and narrative accounts drawn from everyday life.

AAS 340. ASIAN AMERICAN WOMEN (3)
Prerequisite: Completion of the lower division writing requirement. A multidisciplinary analysis of women in the diverse Asian American communities. The study of the historical, social, political, and economic factors which have impacted the role and status of Asian women in American society. Regular writing assignments required. (Available for General Education, Comparative Cultural Studies and available for Women’s Studies Minor, Ethnic Studies and Diversity.)

AAS 345. CONTEMPORARY ISSUES IN ASIAN AMERICAN STUDIES (3)
Prerequisite: Completion of the lower division writing requirement. Critical analysis of contemporary issues confronting Asian Americans in the United States. Emphasis will be placed on social and economic issues such as immigration, education, employment, health, and inter-ethnic and intra-Asian conflict. Regular writing assignments required. (Available for General Education, Comparative Cultural Studies and available for Section B of the Multicultural Requirement for Credential Candidates.)

AAS 347. ASIAN AMERICANS: LEGAL AND POLITICAL HISTORY (3)
Prerequisite: Completion of the lower division writing requirement and AAS 100. An advanced course on the legal and political history of Asian Americans. Examines immigration exclusion, segregation, civil rights reform laws, and contemporary legal and political issues affecting Asians in America.
AAS 349. FILIPINO EXPERIENCE (3)
Prerequisite: Completion of the lower division writing requirement. Examines the nexus between historical events and contemporary issues facing Filipino Americans; focuses on waves of Filipino migration and immigration to the U.S. and their experiences in various sectors of American society: labor, family, military, politics, education, and community formation; interrogates Filipino American identity in the U.S.

AAS 350. ASIAN AMERICAN PERSONALITY AND MENTAL HEALTH (3)
Prerequisite: Completion of the lower division writing requirement. Analysis of psychological issues from an Asian American perspective. Specific topics include the impact of minority status on personality development, cross-cultural comparisons of and Asian Americans, and introduction to problems in the assessment, diagnosis, and treatment of mental health problems in Asian Americans. (Available for General Education, Social Sciences and available for Section B of the Multicultural Requirement for Credential Candidates.)

AAS 355. BIRACIAL AND MULTIRACIAL IDENTITY (3)
Prerequisite: Completion of the lower division writing requirement. Interdisciplinarily studies the socio-historical realities, identities, and political maintenance of people with multiple racial and ethnic heritages; examines the binary racial structure of the U.S., social and legal customs of racial designation and membership; focuses on multiracial populations such as Creoles, mulattos, mestizos, Black-Indians, Eurasians, Afroasians, Amerasians, Black-Chinese, etc.

AAS 360. ASIAN AMERICAN IMMIGRATION-GLOBAL PERSPECTIVE (3)
Prerequisite: Completion of the lower division writing requirement. Examines Asian immigration to the U.S. from a world systems perspective. Examines immigration process and the implication of this process for contemporary interest in the Pacific Rim. Topics include origins of Asian immigration, major U.S. immigration legislation, demographic structure of contemporary Asian immigration, and cross-cultural comparisons of other world groups. Regular writing assignments required. (Available for General Education, Comparative Cultural Studies.)

AAS 390. ASIAN AMERICAN COMMUNITIES: FIELD PRACTICUM (3)
Prerequisite: Completion of the lower division writing requirement. Recommended: Concurrent enrollment in AAS 345 or other related course. Field study, observation, and participation in selected community institutions and agencies to be conducted under supervision and after preparatory instruction to acquaint the student with field and service learning techniques. May be repeated once for credit. (Available for General Education, Section E Applied Arts and Sciences.)

AAS 396A-Z. ADVANCED EXPERIMENTAL COURSES IN ASIAN AMERICAN STUDIES (1-3)
Experimental courses in Asian American Studies with course content to be determined.

AAS 420. ASIAN AMERICAN LITERARY SELF-REPRESENTATIONS (3)
Prerequisite: Completion of the lower division writing requirement and AAS 100. Examines self-representations in Asian American literary studies. Addresses how self-representations in Asian American literature commonly work within and across a variety of literary genres.

Attention also will be paid to the aesthetic, cultural, socio-historical, and publishing factors that have shaped non-fictional self-representations.

AAS 430. ASIAN AMERICAN POPULAR CULTURE (3)
Prerequisite: Completion of the lower division writing requirement and AAS 100. Critical analysis of representations and images of Asian Americans and popular culture, emphasizing the production, consumption, and use of popular culture by and about Asian Americans in the U.S. Surveys theories and methods for studying popular culture, especially in terms of the differential impact of race, gender, ethnicity, and sexual orientation.

AAS 440. URBANIZATION AND ASIAN AMERICAN COMMUNITIES (3)
Prerequisite: Completion of the lower division writing requirements and AAS 100. Examination of the development of Asian American communities in the United States from 1850 to present. Particular attention to the impact of Asian American communities on the economic, social, cultural, and political development of urban Southern California and on the relationship between Asian American communities and other ethnic communities.

AAS 450. ASIAN AMERICAN CHILD AND THE SCHOOLS (3)
Prerequisite: Completion of the lower division writing requirement. Study of the development of the Asian American child with particular emphasis on bicultural and bilingual issues which may influence educational progress. Culturally relevant socialization patterns of children from Chinese, Japanese, Korean, Filipino, and Southeast Asian backgrounds will be examined. This course is intended for students interested in teaching and human services. Regular writing assignments required. (Available for Section A of the Multicultural Requirement for Credential Candidates.)

AAS 453. ASIAN AMERICAN FAMILIES (3)
Completion of the lower division writing requirement. An overview of the demographic, social, cultural, structural, and historical aspects of Asian American families in the United States. Comparative family features among Asian American ethnic groups and other cultural and ethnic groups in America will be examined. Parenting styles, communication styles, values, traditions, and beliefs will be examined across ethnic backgrounds, class, and immigration histories. (Available for Section B of the Multicultural requirement for credential candidates.)

AAS 455. ASIAN AMERICAN SEXUALITY (3)
Prerequisite: Completion of the lower division writing requirement. Explores the personal, social, and political identities of Asian Americans as expressed form the lens of sexuality; interdisciplinarily examines current topics in Asian American sexuality, such as gender roles, cultural beliefs and sexual mythology, sexual practices, media images, literary representations, sexual violence and abuse, sex-related health, sex work and commodification, and sexual orientation.

AAS 495. ADVANCED TOPICS SEMINAR (3)
Prerequisites: Completion of the upper division writing requirement, AAS 100, 210 and six upper divisions units in Asian American Studies, or permission of instructor. A seminar serving to integrate the interdisciplinary nature of research and critical theories in Asian American Studies.
AAS 496A-Z. SENIOR EXPERIMENTAL COURSES IN ASIAN AMERICAN STUDIES (1-3)
Experimental courses in Asian American Studies with course content to be determined.

AAS 497. SENIOR THESIS (3)

AAS 499A-C. INDEPENDENT STUDIES (1-3)
Enrollment is limited to upper division students with written permission from the department chair and the sponsoring faculty person. No more than 3 units of Independent Study may be applied to the Minor in Asian American Studies.
ASIAN STUDIES
(Interdisciplinary Minor)
Coordinator: Shiva Bajpai

COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES
Phone: (818) 667-3551/3566 FAX (818) 677-3614

UNDERGRADUATE ADVISORS: All Program Committee members.

PROGRAM COMMITTEE: Shiva Bajpai, Coordinator (History); Joe Arimitsu (Art 2D); Narayan Champawat (Philosophy); Joseph Chen (History); Akiko Hirota (Foreign Languages and Literatures); Antonia Hussey (Geography); Linda Lam-Easton (Religious Studies); Kit Machado (Political Science).

DEGREE OFFERED: Minor in Asian Studies.

ACADEMIC ADVISEMENT: All Asian studies minors are required to see an advisor to work out a program of study that will meet their specific needs and interests. A student’s program must include courses that involve at least two of the three Asian areas.

The Program Coordinator and all faculty members are available for advisement during the academic year. The coordinator and/or a designee are on duty during orientation and on certain days during the summer. In addition, the program office publishes an information brochure which can be picked up in the office and also obtained by mail or phone request.

DEPARTMENT PROGRAMS: Asian Studies is an interdisciplinary program designed to provide an integrated approach to the study of the history, culture, and current problems of this increasingly important region of the world. The program includes courses that involve the areas of East Asia, South Asia, and Southeast Asia. Graduates from this program may either pursue their studies in graduate schools or apply their knowledge and training in various governmental and private agencies interacting with Asian countries.

A minor in Asian Studies is of particular interest and value to students majoring in Anthropology, Geography, History, Political Science, or Economics.

The minor in Asian Studies consists of 21 units with no more than 6 units in the lower division. The student must consult with an Asian Studies advisor to develop an approved program from the courses listed for the major which best suits his/her individual needs. The student will be able to choose a broad program which will provide a background in several regions of Asia, or he/she will be able to specialize in East Asia, South Asia, or Southeast Asia.

REQUIREMENTS FOR THE MINOR

LOWER DIVISION (6 UNITS)
Select from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>HIST 191</td>
<td>History of Eastern Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 192</td>
<td>History of Eastern Civilization II</td>
<td>3</td>
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</tbody>
</table>

Students who expect to pursue work in Asian Studies beyond the undergraduate level should be aware that competence in an Asian language is a common requirement for advanced degrees. Consequently, those students minoring in Asian Studies may substitute a maximum of 6 units of an Asian language, e.g., Chinese, Japanese, Hindi, or a Southeast Asian language, as electives in their lower division program.

UPPER DIVISION (15 UNITS)
Select from the following:

Social Sciences:
- Anthropology 339A-C, 347
- Geography 324
- History 438, 490, 492, 493
- Economics 300, 460
- Political Science 420F, 420G, 420H, 434A-B, 435
- Sociology 333

Humanities:
- Art History 413, 414, 415
- English 479 (same as MCLL 479)
- Philosophy 343, 344
- Religious Studies 385, 390, 424, 426, 496A
- Theatre 431

Proseminar or Independent Study (select from the following with the consent of an advisor):
- Anthropology 499
- Art History 499
- Economics 499
- Geography 499
- History 497W, 498, 499
- Political Science 471JJ, 471KK, 499
- Religious Studies 497E, 499
- Sociology 499
INTERCOLLEGIATE ATHLETICS PROGRAM
Director of Athletics: Richard M. Dull
Senior Associate Director of Athletics: Grace Collins

INTERCOLLEGIATE ATHLETICS PROGRAM
DEPARTMENT OFFICE:
Intercollegiate Athletics Building
Phone: (818) 677-3208

COACHING FACULTY:
Head Coaches: Mike Batesole, Jim Bracken, Bobby Braswell,
  Jeff Campbell, Terry Davilla, Frozena Jerro, Jeff Kearin,
  Allison Lee, Lian Lu, Stephanie Martin, Barry Schreifels,
  Janet Sherman, Don Strametz, Gary Victor.

Cal State University Athletics is a diverse and broad-based
sports program which exists to provide highly skilled students
with the opportunity to further develop their athletics talents
while obtaining a college education and degree. We provide
the highest level of Amateur athletic entertainment for the
campus community and seek to develop campus spirit and
pride for students, faculty, staff and alumni.

Ten men’s and ten women’s intercollegiate sports are offered at
California State University Northridge. Approximately 500
students are directly participating on these teams. Currently,
Cal State Northridge Athletics offers the following sports:

WOMEN’S basketball, cross country, indoor track, outdoor track
and field, soccer, softball, swimming and diving, tennis and
volleyball; and MEN’S baseball, basketball, cross country,
football, indoor track, outdoor track and field, golf, soccer,
swimming and diving, and volleyball.

Currently, Cal State Northridge is affiliated primarily with the
Big Sky and Big West Conferences, which are NCAA Division I
conferences.

The programs must function within the regulations relative to
academics and amateurism which are set forth by the National
Collegiate Athletic Association (NCAA).

Students designated as intercollegiate athletes must be enrolled
full time and are subject to mandates for degree progress
established by the NCAA.

COURSE LIST

ATHL 197A-Z. OFF-SEASON CONDITIONING (1-1-1-1)
  Conditioning exercises and drills for varsity sports in the off
  season.

VARSITY ATHLETICS (2-2-2-2)
  Members of athletic squads are required to register for
  varsity participation.

Team Number and Title
  ATHL 200  Varsity Baseball—M
  ATHL 201  Varsity Basketball—M
  ATHL 202  Varsity Basketball—W
  ATHL 204  Varsity Cross Country—M
  ATHL 205  Varsity Cross Country—W
  ATHL 208  Varsity Golf—W
  ATHL 209  Varsity Football—M
  ATHL 210  Varsity Golf—M
  ATHL 215  Varsity Soccer—W
  ATHL 216  Varsity Soccer—M
  ATHL 217  Varsity Softball—W
  ATHL 218  Varsity Swimming—M
  ATHL 219  Varsity Swimming—W
  ATHL 222  Varsity Tennis—W
  ATHL 223  Varsity Track & Field—M
  ATHL 224  Varsity Track & Field—W
  ATHL 226  Varsity Volleyball—M
  ATHL 227  Varsity Volleyball—W
BIOLOGY

Chair: Jim Dole
Associate Chair: Joyce Maxwell

COLLEGE OF SCIENCE AND MATHEMATICS

Department Office: Science 2102
Phone: (818) 677-3356  Fax: (818) 677-2034
E-mail: hfbio002@csun.edu
Web Page: http://www.csun.edu/~hfbio002/
Administrative Analyst/Specialist: Jan Volbeda

FACULTY: Larry Allen, Lisa Banner, Larry Baresi, Peter Bellinger, Nancy Bishop, Linda Caren, Robert Carpenter, Edward Carroll, Randy Cohen, Jim Dole (Chair), Steve Dudgeon, Peter Edmunds, Cheryl Hogue, Jennifer Matos, Joyce Maxwell, Aida Metzenberg, Stan Metzenberg, Steven Oppenheimer, Paula Schiffman, O. Tacheeni Scott, Mary Lee Sparling, Michael Summers, Paul Tomasek, Paul Wilson, Maria Elena Zavala


ADJUNCT FACULTY: Jack D. Barrett, Harold Bass, Kerry Clegg, Eugene DiNovo, Peter Egggena, Norman Glover, Alan Holtzman, Rehwa Lee, Max E. McIntosh, Anne Morin, Seymour Froman, Ken Tachiki

UNDERGRADUATE ADVISORS: Principal Advisor: Kontogiannis; Pre-medical: Kuhn; Pre-dental: Corcoran; Medical technology: Bishop; Teacher preparation: Matos, S. Metzenberg; Biotechnology: Caren.

GRADUATE ADVISOR: Coordinators of Graduate Studies: Summers, Wilson. Advisors are assigned in accordance with a student’s special interest area.

DEGREES OFFERED: B.A., B.S. and M.S. in Biology. An M.S. in Genetic Counseling (see Genetic Counseling) is offered jointly with the Department of Educational Psychology and Counseling and the Department of Special Education.

CREDENTIAL INFORMATION: A special option (B.A. with some modification or B.S. Option II with some modification) has been approved by the State of California as an academic subject matter program for the Science Credential with concentration in Biology. For advisement students should contact a Teacher Preparation Advisor (see above). For details on the credential program see the Credentials section of this catalog or refer to the Index.

ACADEMIC ADVISEMENT: Advisement is required of Biology undergraduate and graduate students during the fall semester before registering for the spring semester through Touch Tone Registration (TTR). Advisement can be obtained at the Biology Student Advisement Center, Science 2133, or from any Biology faculty member in the student’s option. A schedule of faculty office hours is available in the Biology Office. The Coordinators of Graduate Studies will provide advisement for the Biology Graduate Program.

PRE-MEDICAL AND PRE-PROFESSIONAL INFORMATION: The B.A. degree is recommended for all pre-professional students; however, any of the B.S. options may be followed by students with special interests. Pre-medical, pre-dental and other students pursuing health associated professional careers should see the appropriate advisor. For information about required or recommended pre-professional courses contact the Biology Department Office.

THE MAJOR: Biology is the study of life, its variety and processes. The discipline is dynamic and its intellectual framework is expanding rapidly. In one direction, the study of organisms is the basis for the understanding of how populations of organisms interact among themselves and with their environment. This includes a consideration of the distribution and abundance of organisms, how they have changed over time, energy flow among organisms and the cycling of inorganic and organic resources. In another direction, the study of biological molecules is the basis for understanding how cells are constructed and how they function, including their metabolism, growth, development and reproduction.

LEARNING OUTCOMES: The Biology Department has identified four learning outcomes to be achieved by its students as a result of completing one of its Baccalaureate degree programs.

(1) Students should demonstrate knowledge of: a) the structure and metabolism of cells; b) the transmission and expression of genetic information; and c) the immediate and long term (evolutionary) consequences of interactions between organisms and their environment.

(2) Students should demonstrate specialized knowledge in one or more disciplines of biology.

(3) Students should be aware of and/or capable of using new and existing methods and technologies in these disciplines.

(4) Students must demonstrate facility in applying the methods of scientific inquiry, including observation, hypothesis testing, data collection and analysis.

CAREERS: Many career opportunities are available to the student majoring in biology. The undergraduate program provides an excellent background for further work in medicine, dentistry, pharmacy, optometry, veterinary medicine, biotechnology, medical technology and graduate programs. It also can serve for direct entry into teaching and a variety of positions in industrial, research and governmental organizations.

BACHELOR OF ARTS PROGRAM: The Bachelor of Arts degree is designed for students seeking a broad foundation in biology as part of a liberal education in the arts and sciences. Provided that careful attention is paid to the requirements for advanced (postbaccalaureate) and professional programs, the B.A. degree is appropriate for those students (1) intending to enter a graduate program, (2) seeking a teaching credential (see above), or (3) preparing for dentistry, medicine, optometry, pharmacy or veterinary medicine. The B.A. degree is also suitable for careers in such areas as pharmaceutical sales and medical illustration (see Pre-medical and Pre-professional Information).

BACHELOR OF SCIENCE PROGRAM: The Bachelor of Science degree is appropriate for students seeking in-depth training in a particular biological field as preparation for a specific career. It is designed to prepare students for (1) employment in commercial, industrial or governmental operations or laboratories, (2) traineeships required for certification or licensure in designated areas of applied biology and microbiology, or (3) related graduate programs. The B.S. degree is available in five options: Cell and Molecular
Biology, Environmental Biology, Microbiology, Biotechnology/Medical Technology, and Marine Biology.

The Cell and Molecular Biology Option (Option I) with a Bachelor of Science degree will prepare students for work in private or government laboratories where modern cellular and molecular techniques are used. This option also prepares the student for advanced graduate study.

The Environmental Biology Option (Option II) with a Bachelor of Science degree prepares graduates for employment in positions such as ecologist, systems ecologist, or wildlife preserve manager; for positions with the U.S. Department of Agriculture, Bureau of Land Management, National or State Parks and other government agencies and private organizations; or for consulting positions in formulating environmental impact reports. A modified version of this option is appropriate for students seeking a teaching credential. This option also prepares the student for advanced graduate study.

The Microbiology Option (Option III) with a Bachelor of Science degree will prepare students for employment in microbiological labs, both government and private, and satisfies the recommended curricula of the American Society for Microbiology, the Society of Industrial Microbiologists, and the California Department of Health Services. This option also prepares the student for advanced graduate study.

The Biotechnology/Medical Technology Option (Option IV) with a Bachelor of Science degree is designed: (1) to meet the State academic requirements for Clinical Laboratory Technology or Medical Technology; or (2) to prepare a student for a career in biotechnology. Students who complete the course sequence for Medical Technology will be prepared to apply for the clinical year of training in Laboratory Technology or to begin a career in industry or government. Students completing the Biotechnology course sequence will be well prepared for an entry-level biotechnology position in industry or government or for graduate programs in biotechnology. Students choosing either track of this option should consult an advisor as soon as possible concerning the proper course sequence to be followed and other requirements in each field.

The Marine Biology Option (Option V) with a Bachelor of Science degree prepares graduates for advanced graduate study and for employment in the marine sciences.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE
Each student is required to complete the Core Program plus all of the requirements in the Selective Program.

CORE PROGRAM

LOWER DIVISION COURSES (26 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 106/106L</td>
<td>Biological Principles I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 107/107L</td>
<td>Biological Principles II &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101/101L</td>
<td>General Chemistry I &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 102/102L</td>
<td>General Chemistry II &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 100A/100AL</td>
<td>General Physics I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 100B/100BL</td>
<td>General Physics II &amp; Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

UPPER DIVISION COURSES (17 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 322</td>
<td>Population Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 360</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 380</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 333</td>
<td>Principles of Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Principles of Organic Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

MATHEMATICS REQUIREMENT

All biology majors are required to demonstrate a proficiency in mathematics equivalent to a passing grade in MATH 105. They may do this by receiving a passing score on the Math Placement Test sufficient for admission to Math 255A.

SELECTIVE PROGRAM (20 UNITS)

Students must take a minimum of 20 units of specialized coursework in addition to the Core. With the approval of a faculty advisor and the concurrence of the Department Curriculum Committee, students may create their own program. Approval for such individualized programs must be obtained before enrollment in the last 12 units of Biology courses. By appropriate choice of courses, students may obtain the equivalent of a traditional degree in Botany or Zoology.

1. Molecular, Cellular, and Physiological Biology
Take at least seven units from the following, including one course that has a bench lab designated by an “L” and one course that is at the 400 level or above:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 281/282</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 315/315L</td>
<td>Principles of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 316/316L</td>
<td>Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 335/335L</td>
<td>Applied Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 381</td>
<td>Cell Biology Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 411/411L</td>
<td>Animal Histology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 417/417L</td>
<td>Microbial Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 441/441L</td>
<td>Embryology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 470</td>
<td>Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 481/481L</td>
<td>Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 482/482L</td>
<td>Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 485/485L</td>
<td>Immunology with Serology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 487/487L</td>
<td>Hematology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 561</td>
<td>Molecular Genetics of Eukaryotic Organisms</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 562</td>
<td>Molecular Genetics of Eukaryotic Organisms</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 563</td>
<td>Cytogenetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 564</td>
<td>Human Biochemical Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 566</td>
<td>Genetics of Bacteria and their Viruses</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 567</td>
<td>Medical Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 571</td>
<td>Molecular Diagnostics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 572/572L</td>
<td>Recombinant DNA Techniques</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 577/577L</td>
<td>Cell and Tissue Culture</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 580/580L</td>
<td>Cellular Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 582/582L</td>
<td>Principles of Neurophysiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 585</td>
<td>Mechanisms of Bacterial Pathogenesis</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 589</td>
<td>Cellular Immunology</td>
<td>3</td>
</tr>
</tbody>
</table>

This requirement assures that the student will study two examples of the molecular and functional mechanisms that occur within individual organisms.

2. Systematics and Comparative Biology
Choose one from the following list. Either the course chosen here in List 2 (Systematics and Comparative Biology) or the one chosen in List 3 (Ecology and Environmental Biology) must have a field studies component, as designated by an asterisk (*)..

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 311/311L</td>
<td>Comparative Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 312/312L/312/392F</td>
<td>Vertebrate Biology*</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 313/313L/313/392B</td>
<td>Vertebrate Zoology*</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 403/403L</td>
<td>Plant Morphology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 406/406L/492K</td>
<td>Systematic Botany*</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 410/410L</td>
<td>Medical Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 415/415L</td>
<td>Mammalogy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 418/418L</td>
<td>Bacterial Diversity</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 435/435L</td>
<td>Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 504/504L</td>
<td>The Algae*</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 512/512L/592E</td>
<td>Herpetology*</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 513/513L</td>
<td>Entomology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 530/530L/592J</td>
<td>Ichthyology*</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 536</td>
<td>Medical Mycology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 544</td>
<td>Biology of Viruses</td>
<td>3</td>
</tr>
</tbody>
</table>
This requirement assures that the student will have the opportunity to closely study biodiversity in one group of organisms from the points of view of adaptive diversification, phylogeny, biogeography, and classification.

3. Ecology and Environmental Biology
Choose one from the following list. Either the course chosen here in List 3 (Ecology and Environmental Biology) or the one chosen in List 2 (Systematics and Comparative Biology) must have a field studies component, as designated by an asterisk (*).

- **BIOL 328** Biological Conservation ................. 3
- **BIOL 407/492N** Plant Ecology .................. 4
- **BIOL 411/411L/492C** Microbial Ecology* .......... 4
- **BIOL 421/421L/492B** Marine Biology* .............. 4
- **BIOL 422/422L** Physiological Ecology* .......... 4
- **BIOL 423/492F** Field Ecology* ................... 4
- **BIOL 424/424L/492G** Ecological Modeling .......... 4
- **BIOL 426/426P** Biology of Deserts* ............... 3
- **BIOL 427/427L** Principles of Ecology ............. 3
- **BIOL 514/514L/592A** Avian Ecology* ............... 4
- **BIOL 524** Tropical Biology ....................... 3
- **BIOL 525** Animal Behavior ....................... 3
- **BIOL 525/592D** Animal Behavior with Field Studies* ....... 4
- **BIOL 527/527L/592L** Biology of Pelagic Organisms* .... 4
- **BIOL 528/528L/592B** Behavioral Ecology* .......... 4
- **BIOL 529/529L/592I** Marine Ecology* .............. 4
- **BIOL 531/531L/592Q** Ecology of Marine Fishes* ....... 4

This requirement assures that the student will study some aspect of the interactions between organisms and their environment.

4. Elective Requirement
Electives should be taken to bring the total beyond the Core to 20 units, including at least 17 upper division units. No more than three units of BIOL 490 and 499 combined may be used, and BIOL 490 and 499 may not be used to satisfy either laboratory or field requirements. Electives may include any upper division biology course (except those explicitly excluded in their description) or the following:

- **MATH 255A** Calculus I ......................... 3
- **CHEM 461** Biochemistry I ..................... 4
- **CHEM 464** Principles of Biochemistry ........... 4
- **GEOG 322** Introductory Oceanography ........... 4
- **GEOG 351** Fundamentals of Paleontology ....... 4
- **BIOL 310/310L** Functional Human Anatomy ...... 4
- **BIOL 330/330L** Design and Analysis of Experiments 3
- **BIOL 447/447L** F.I.R.E......................... 4
- **BIOL 490** Tutorial Studies ...................... 1
- **BIOL 499** Independent Study .................... 1-3
- **BIOL 502** Biometry .......................... 3
- **BIOL 560** Organic Evolution ................... 3

This requirement gives additional opportunity for student choices in the program while guaranteeing that students are exposed to biological concepts and practices.

**TOTAL UNITS IN THE MAJOR (63 UNITS)**

**GENERAL EDUCATION (43 UNITS)**

The entire Section B, Natural Sciences, is considered met by required courses in the Biology major.

**TITLE 5 (6 UNITS)**

**ADDITIONAL UNITS (12 UNITS)**

**TOTAL UNITS REQUIRED FOR B.A. DEGREE: 124**

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE**

Each student pursuing a Bachelor of Science degree must complete the designated Core program plus all required courses and the selective program of one of the options.

**CORE PROGRAM FOR ALL B.S. OPTIONS**

**LOWER DIVISION COURSES (27 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 106</td>
<td>Biological Principles I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 107</td>
<td>Biological Principles II &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>General Chemistry I &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry II &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 100A</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 100B</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 255A</td>
<td>Calculus I</td>
<td>3</td>
</tr>
</tbody>
</table>

**UPPER DIVISION COURSES (9 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 322</td>
<td>Population Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 360</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 380</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
</tbody>
</table>

**OPTION I: CELL AND MOLECULAR BIOLOGY**

Graduates in the Cell and Molecular option are prepared for positions as research associates or quality assurance technicians in research laboratories or industry or a variety of similar positions.

**REQUIRED COURSES (11 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 381</td>
<td>Cell Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 100AL/100BL</td>
<td>General Physics I &amp; II Lab</td>
<td>2</td>
</tr>
<tr>
<td>CHEM333/334</td>
<td>Principles of Organic Chemistry I &amp; II</td>
<td>8</td>
</tr>
</tbody>
</table>

(Math 255B is highly recommended)

**SELECTIVE PROGRAM (28 TO 32 UNITS)**

1. **Cell and Tissues (4 Units)**

Choose one from the following:

- **BIOL 411/411L** Animal Histology | 4
- **BIOL 447/447L** F.I.R.E | 4

2. **Developmental Biology (4 Units)**

**BIOL 441/441L** Embryology | 4

3. **Physiology (8 Units)**

Choose two from the following:

- **BIOL 417/417L** Microbial Physiology | 4
- **BIOL 481/481L** Plant Physiology | 4
- **BIOL 482/482L** Animal Physiology | 4
- **BIOL 580/580L** Cellular Physiology | 4

4. **Molecular Biology (3-4 Units)**

Choose one from the following:

- **BIOL 561** Molecular Genetics of Microorganisms | 3
- **BIOL 562** Molecular Genetics of Eukaryotic Organisms | 3
- **CHEM461** Biochemistry I | 4
- **CHEM464** Principles of Biochemistry | 4

5. **Elective Group I (6-8 Units)**

Choose two from the following:

- **BIOL 485/485L** Immunology with Serology Lab | 4
- **BIOL 544** Biology of Viruses | 3
- **BIOL 571** Molecular Diagnostics | 3
- **BIOL 572/572L** Recombinant DNA Techniques | 4

6. **Elective Group II (3-4 Units)**

Choose one from the following:

- **BIOL 315/315L** Principles of Microbiology | 4
- **BIOL 330/330L** Design & Analysis of Experiments | 3
- **BIOL 435/435L** Parasitology | 4
- **BIOL 470** Biotechnology | 3
- **BIOL 499** Independent Study | 3
- **CHEM462** Biochemistry II | 4
TOTAL UNITS IN THE MAJOR, CORE PLUS
OPTION I (75 TO 79 UNITS)
GENERAL EDUCATION (40 UNITS)
The entire Section B, Natural Sciences, is considered met by required courses in the Biology major. Subsection A.3, Mathematics, is satisfied by MATH 255A.
TITLE 5 (6 UNITS)
ADDITIONAL UNITS (3 TO 7 UNITS)
TOTAL UNITS REQUIRED FOR B.S. DEGREE,
OPTION I: 128

OPTION II: ENVIRONMENTAL BIOLOGY
The Environmental Option prepares graduates for positions such as ecologist or wildlife manager with government agencies and private organizations. In modified form this option also meets the requirements for a teaching credential. (See Credential Programs section of this catalog).
Areas of interest: Before electing upper division courses in the Selective Program, each student should consult an advisor in his/her area of interest to select a program of courses appropriate to the student’s goals.

REQUIRED COURSES (7 TO 11 UNITS)
BIOL 330/330L Design & Analysis of Experiments.........3 or
BIOL 502 Biometry..............................................3 or
CHEM235 Introductory Organic Chemistry........4 or
CHEM333/334 Principles of Organic Chemistry I and II...8
(Note: Chem 333/334 is strongly recommended for students planning to pursue an advanced degree)

SELECTIVE PROGRAM (32 UNITS)
Select 32 additional upper-division units from the following lists.
1. Ecology (11-12 Units)
Choose three from the following:
BIOL 407/407L/492N Plant Ecology‡..........................4
BIOL 422/422L Physiological Ecology.........................4
BIOL 423/492F Field Ecology....................................4
BIOL 424/424L/492G Ecological Modeling....................4
BIOL 426/492P Biology of the Deserts.......................3
BIOL 514/514L/592A Avian Ecology‡........................4
BIOL 528/528L/592B Behavioral Ecology......................4
BIOL 529/529L/592I Marine Ecology..........................4

2. Botany (4 Units)
Choose one from the following:
BIOL 316/316L Plant Biology/Lab..............................4
BIOL 403/403L Plant Morphology................................
BIOL 406/406L/492K Systematic Botany....................4
BIOL 407/407L/492N Plant Ecology‡..........................4
BIOL 481/481L Plant Physiology..............................4
BIOL 504/504L The Algae........................................

3. Zoology (3-4 Units)
Choose one from the following:
BIOL 312/312L/392F Vertebrate Biology......................4
BIOL 313/313L/392B Invertebrate Zoology..................4
BIOL 415/415L Mammalogy....................................4
BIOL 512/512L/592E Herpetology..............................4
BIOL 513/513L Entomology.....................................4

BIOL 514/514L/592A Avian Ecology‡........................4
BIOL 525 Animal Behavior.....................................3
(Note: An optional field course in animal behavior, 592D, is listed under Electives.)
BIOL 530/530L/592I Ichthyology.............................4
4. Electives (12-14 Units)
   a. Select one additional course from the Botany or Zoology sections above.
   b. Then select additional courses from the Ecology, Botany, or Zoology sections above, or from the courses listed below, to make a total of 32 upper-division units in the “Selective Program.” Other courses may be substituted with the approval of an Environmental Biology advisor.

BIOL 315/315L Principles of Microbiology.................4
BIOL 328 Biological Conservation..........................3
BIOL 419/419L/492C Microbial Ecology....................4
BIOL 421/421L/492B Marine Biology........................4
BIOL 435/435L Parasitology..................................4
BIOL 527/527L/592L Biology of Pelagic Organisms........4
BIOL 560 Organic Evolution................................3
BIOL 592D Animal Behavior Field Studies................1
(Note: 592D requires concurrent or prior enrollment in 525; see listing under Zoology)
GEOL 508 Invertebrate Paleontology.......................4
GEOL 513 Micropaleontology.................................4

TOTAL UNITS IN THE MAJOR, CORE PLUS
OPTION II (75 TO 79 UNITS)
GENERAL EDUCATION (40 UNITS)
The entire Section B, Natural Sciences, is considered met by required courses in the Biology major. Subsection A.3, Mathematics, is satisfied by MATH 255A.
TITLE 5 (6 UNITS)
ADDITIONAL UNITS (3 TO 7 UNITS)
TOTAL UNITS REQUIRED FOR B.S. DEGREE,
OPTION II: 128

OPTION III: MICROBIOLOGY
The Microbiology Option satisfies the recommendations of the American Society for Microbiology, the Society of Industrial Microbiologists and the California State Department of Health Services.

REQUIRED COURSES (34 UNITS)
BIOL 315/315L Principles of Microbiology.................4
BIOL 381 Cell Biology Laboratory............................1
BIOL 410/410L Medical Microbiology.......................4
BIOL 417/417L Microbial Physiology.........................4
BIOL 418/418L Bacterial Diversity..........................4
BIOL 419/419L/492C Microbial Ecology....................4
CHEM321/321L Chemical Analysis I and Lab................4
CHEM332/332L Principles of Organic Chemistry I...4
CHEM333 Principles of Organic Chemistry II..........4
COMP 100 Computers: Their Impact and Use............3
PHYS 100AL General Physics I Lab........................1
PHYS 100BL General Physics II Lab......................1
(MATH 140 and 255B are highly recommended)

‡ Plant Ecology (Biology 407/407L/492N) may be used to fulfill the Botany requirement or the Ecology requirement, but not both. Avian Ecology (514/514L/592A) may be used to fulfill the Zoology requirement or the Ecology requirement, but not both.
SELECTIVE PROGRAM (8 UNITS)
Choose any courses from the following list or other courses with advisor approval.

- BIOL 435/435L Parasitology.................................4
- BIOL 470 Biotechnology........................................3
- BIOL 485/485L Immunology with Serology Lab...........4
- BIOL 487/487L Hematology....................................4
- BIOL 499 Independent Study (3 Units Maximum)..........1-3
- BIOL 536 Medical Mycology....................................3
- BIOL 544 Biology of Viruses..................................3
- BIOL 566 Genetics of Bacteria & Their Viruses .......3
- CHEM 464 Principles of Biochemistry......................4

(Note: Choosing CHEM 464 automatically satisfies the course requirements for a minor in Chemistry; see Chemistry Department for evaluation.)

TOTAL UNITS IN THE MAJOR, CORE PLUS MEDICAL TECHNOLOGY (70-72 UNITS)

OPTION IV: BIOTECHNOLOGY/ MEDICAL TECHNOLOGY
This option has two tracks. The Biotechnology track prepares students for careers or graduate programs in Biotechnology. The Medical Technology track prepares students for the clinical year of training and the California License exam in Clinical Laboratory Technology. Students in either track should consult the appropriate faculty advisor.

REQUIRED COURSES FOR BOTH BIOTECHNOLOGY AND MEDICAL TECHNOLOGY (17 UNITS)

- BIOL 315/315L Principles of Microbiology................4
- BIOL 381 Cell Biology Laboratory.............................4
- CHEM 333 Principles of Organic Chemistry I ..............4
- CHEM 334 Principles of Organic Chemistry II ............4
- CHEM 365 Introduction to Biochemistry .....................4
or
- CHEM 464 Principles of Biochemistry.......................4

BIOTECHNOLOGY ADDITIONAL REQUIRED COURSES (11 UNITS)

- BIOL 470 Biotechnology.........................................3
- BIOL 572/572L Recombinant DNA Techniques ..............4
- BIOL 577/577L Cell and Tissue Culture ......................4

BIOTECHNOLOGY SELECTIVE PROGRAM (6-8 UNITS)
Choose two from the following list:

- BIOL 330/330L Design & Analysis of Experiments ..........3
- BIOL 417/417L Microbial Physiology........................4
- BIOL 418/418L Bacterial Diversity............................4
- BIOL 419/419L/492C Microbial Ecology .....................4
- BIOL 447/447L F.I.R.E..........................................4
- BIOL 481/481L Plant Physiology...............................4
- BIOL 482/482L Animal Physiology............................4
- BIOL 485/485L Immunology with Serology Lab ..........4
- BIOL 544 Biology of Viruses..................................3
- BIOL 561 Molecular Genetics of Microorganisms............3
- BIOL 562 Molecular Genetics of Eukaryotic Organisms ....3

BIOL 564 Human Biochemical Genetics.....................3
BIOL 571 Molecular Diagnostics..............................3
BIOL 575/575L Electron Microscopy in Biomedical Sciences ....4
BIOL 580/580L Cellular Physiology.........................4
BIOL 582/582L Principles of Neurophysiology ............4
BIOL 589 Cellular Immunology..............................3
CHEM 321/321L Chemical Analysis I and Lab................4

(Note: Choosing CHEM 321/321L automatically satisfies the course requirements for a minor in Chemistry; see Chemistry Department for evaluation.)

TOTAL UNITS IN THE MAJOR, CORE PLUS MEDICAL TECHNOLOGY (73 UNITS)

GENERAL EDUCATION (40 UNITS)
The entire Section B, Natural Sciences, is considered met by required courses in the Biology major. Subsection A.3, Mathematics, is satisfied by MATH 255A. Section E, Applied Arts and Sciences, is partially satisfied by COMP 100.

TITLE 5 (6 UNITS)
ADDITIONAL UNITS (7 UNITS)

TOTAL UNITS REQUIRED FOR B.S. DEGREE, OPTION IV: 128

OPTION V: MARINE BIOLOGY
The Marine Biology Option prepares graduates for employment in the marine sciences and for advanced graduate study. Advisement is mandatory and a course program must be approved by an advisor by the beginning of the student's junior year.

REQUIRED COURSES (13-17 UNITS)

- BIOL 330/330L Design & Analysis of Experiments ..........3
or
- BIOL 502 Biometry.................................................3
- BIOL 421/421L/492B Marine Biology .........................4
- PHYS 100AL/100BL General Physics I & II Lab ............2
- CHEM 235 Introductory Organic Chemistry ...............4
or
- CHEM 333/334 Principles of Organic Chemistry I and II .....8

(Note: CHEM 333/334 is strongly recommended for students planning to pursue an advanced degree.)

SELECTIVE PROGRAM (27 UNITS)
Select three additional courses from Section 1 (Marine Biology) below and 15 units from Section 2 (Electives), for a total of 27 units.

1. Marine Biology (12 Units)
Biology Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 313/313L/392B</td>
<td>Invertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 504/504L</td>
<td>The Algae</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 527/527L/592L</td>
<td>Biology of Pelagic Organisms</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 529/529L/592I</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 530/530L/592J</td>
<td>Ichthyology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 312/312L/392F</td>
<td>Vertebrate Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 316/316L</td>
<td>Plant Biology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 403/403L</td>
<td>Plant Morphology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 406/406L/492K</td>
<td>Systematic Botany</td>
<td>4</td>
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<tr>
<td>BIOL 407/407L/492N</td>
<td>Plant Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 415/415L</td>
<td>Mammalogy</td>
<td>4</td>
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<tr>
<td>BIOL 422/422L</td>
<td>Physiological Ecology</td>
<td>4</td>
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<tr>
<td>BIOL 423/423L/492F</td>
<td>Field Ecology</td>
<td>4</td>
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<tr>
<td>BIOL 424/424L/492G</td>
<td>Ecological Modeling</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 481/481L</td>
<td>Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 502</td>
<td>Biometry</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 514/514L/592A</td>
<td>Avian Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 525</td>
<td>Animal Behavior</td>
<td>3</td>
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<tr>
<td>BIOL 592D</td>
<td>Animal Behavior Field Studies</td>
<td>1</td>
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<tr>
<td>CHEM 103/104</td>
<td>Intro. Chem. I &amp; II with Lab</td>
<td>10</td>
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<tr>
<td>BIOL 528/528L/592B</td>
<td>Behavioral Ecology</td>
<td>4</td>
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<tr>
<td>BIOL 531/531L/592Q</td>
<td>Ecology of Marine Fishes</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 560</td>
<td>Organic Evolution</td>
<td>3</td>
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<tr>
<td>GEOL 322/322L</td>
<td>Introductory Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 560</td>
<td>Advanced Oceanography</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN THE MINOR: 26 TO 31**

**HONORS PROGRAM**

This program provides an opportunity for outstanding biology majors to gain research experience with individual faculty guidance and may be of value for research-minded pre-medical applicants. The designation of “Honors” will be added to the academic record of any student who completes the program.

Admission to the program is granted by approval of the Department Honors Committee. Students in the B.A. degree program or in any of the B.S. options are eligible provided they have: 1) completed 90 units of college work; 2) maintained a grade point average of 3.50 overall and in the biology major; and 3) obtained the approval of a faculty sponsor who will supervise their research. Interested students should contact the Biology Department office.

Graduation with Honors requires:

1. Completion of the following courses.
   - BIOL 300/330L: Design and Analysis of Experiments
   - BIOL 498: Senior Thesis
   - BIOL 499: Independent Study
   - All eight units must be in addition to those completed for the major.

2. Maintenance of a G.P.A. of 3.50 overall and in all courses in the Biology major completed at CSUN.

3. Approval of a senior thesis by the Honors Committee, including a presentation of the research.

**GRADUATE PROGRAM**

The purpose of the Graduate Program is to provide the student with the opportunity for advanced study in specialized areas of Biology and to develop the skills required to do independent research. A reading knowledge of a modern foreign language may be useful, but is not required.

**REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE FOR ADMISSION TO THE DEPARTMENT:**

Students may be admitted as either Classified or Conditionally Classified Graduate students. In addition to the University’s requirements, the Biology Department requires:

1. Submission of a Biology Department Graduate Program Application. This is a separate application, in addition to the University Application, and is available in the Biology Office (SC 2102).

2. Minimum undergraduate grade point average of 2.75. If the undergraduate grade point average is less than 3.0, up to 12 units of 400-level Biology courses with a grade of B or better may be required.

3. A Bachelor’s degree with a major in Biology. Post-baccalaureate students with other majors, or those whose degree program did not include courses equivalent to the undergraduate core in the Biology major, may be required to make up the deficiencies.

4. General and Biology Advanced Subject Graduate
TOTAL UNITS REQUIRED FOR THE M.S. DEGREE: 31

CONDITIONALLY CLASSIFIED STATUS:
If a student meets the Department admission requirements but does not meet the requirements for classified status, conditional classification is given. Students accepted to the program with deficiencies in Biology core courses are expected to complete the core before proceeding with 600-level courses. It is important to achieve fully classified status prior to completing more than 12 units of graduate work, as NO MORE THAN 12 UNITS OF WORK PRIOR TO ATTAINING FULLY CLASSIFIED STATUS WILL BE APPLIED TO A MASTER’S PROGRAM.

FOR THE DEGREE:
First semester graduate students in Biology must meet with a graduate coordinator during their first semester in the program. In addition, every graduate student must meet once a year during the fall semester with the Department Graduate Committee.

1. Completion of a minimum of 30 units of grade A, A-, B+, or B work in all approved courses applied towards the Master’s degree:
   a. Required Core (11 units):
      Biology 691, Graduate Proseminar (2 units) and 600-level seminar or lecture courses (9 Units).
   b. Additional Courses (minimum of 8 units):
      Biol 502, Biometry (an equivalent 3-unit upper division course may be substituted) AND any 400-, 500-, or 600-level biology courses except BIOL 490, 497EE, 499, 692, 698, and 699. A maximum of 9 units of 400-level courses may be applied toward the degree. No more than 6 units from other disciplines such as Chemistry, Psychology, etc., may be counted.
   c. Thesis courses:
      Independent Study (Biol 699)..........................0-6 Units
      Thesis (Biol 698).....................................3-6 Units
2. Enrollment and attendance in at least one semester of Biology Colloquium, Biol. 692 (1 Unit).
3. Completion and successful oral defense of a thesis.
4. Formal approval by the Biology faculty.

CONDITIONALLY CLASSIFIED STATUS:
If a student meets the Department admission requirements but does not meet the requirements for classified status, conditional classification is given. Students accepted to the program with deficiencies in Biology core courses are expected to complete the core before proceeding with 600-level courses. It is important to achieve fully classified status prior to completing more than 12 units of graduate work, as NO MORE THAN 12 UNITS OF WORK PRIOR TO ATTAINING FULLY CLASSIFIED STATUS WILL BE APPLIED TO A MASTER’S PROGRAM.

FOR THE DEGREE:
First semester graduate students in Biology must meet with a graduate coordinator during their first semester in the program. In addition, every graduate student must meet once a year during the fall semester with the Department Graduate Committee.

1. Completion of a minimum of 30 units of grade A, A-, B+, or B work in all approved courses applied towards the Master’s degree:
   a. Required Core (11 units):
      Biology 691, Graduate Proseminar (2 units) and 600-level seminar or lecture courses (9 Units).
   b. Additional Courses (minimum of 8 units):
      Biol 502, Biometry (an equivalent 3-unit upper division course may be substituted) AND any 400-, 500-, or 600-level biology courses except BIOL 490, 497EE, 499, 692, 698, and 699. A maximum of 9 units of 400-level courses may be applied toward the degree. No more than 6 units from other disciplines such as Chemistry, Psychology, etc., may be counted.
   c. Thesis courses:
      Independent Study (Biol 699)..........................0-6 Units
      Thesis (Biol 698).....................................3-6 Units
2. Enrollment and attendance in at least one semester of Biology Colloquium, Biol. 692 (1 Unit).
3. Completion and successful oral defense of a thesis.
4. Formal approval by the Biology faculty.

TOTAL UNITS REQUIRED FOR THE M.S. DEGREE: 31

COURSE LIST
LOWER DIVISION
100. INTRODUCTORY BIOLOGY (3)
An analysis of selected topics illustrating major biological concepts, including ecology, evolution, heredity and organizational and cellular structure and physiology. Primarily designed for non-science majors. No credit for Biology majors. Lecture 3 hours. May not be taken for credit by students who have completed BIOL 101, 106 or 107. Students using this course to satisfy a General Education requirement in Natural Sciences may satisfy the corresponding laboratory requirement by completing Biology100L.

100L. INTRODUCTORY BIOLOGY LABORATORY (1)
Prerequisite: BIOL 100 (may be taken concurrently). Observations, experiments, demonstrations, and required field trips to augment Introductory Biology. Emphasis on the methods of science, basic biological principles, the natural environment, and the effects of human activity on the environment. This course may be used to satisfy the laboratory requirement in Natural Sciences of General Education provided BIOL 100 is also completed. Not for credit in Biology major. Laboratory 3 hours.

101. GENERAL BIOLOGY (4)
An analysis of selected topics illustrating major concepts in biology, including evolution, environmental relationships, heredity, the cell, energetics and functions of living systems, and development. (Available for General Education, Natural Sciences, if required in the major.) Lecture 3 hours, laboratory 3 hours. May not be taken for credit by students who have completed BIOL 106 or 107. Not for credit in Biology major.

106. BIOLOGICAL PRINCIPLES I (3)
Prerequisite: Concurrent enrollment in BIOL 106L. An analysis of selected topics illustrating major concepts in biology, including the scientific process, heredity, evolution, taxonomy and systematics, ecology, and animal behavior. Lecture 3 hours. This course is designed primarily for Biology majors and is one-half of a year’s sequence that also requires the completion of BIOL 107 and 107L. (Available for General Education, Natural Sciences, if required in a student’s major).

106L. BIOLOGICAL PRINCIPLES I LABORATORY (1)
Prerequisite: Concurrent enrollment in BIOL 106. Observations, experiments and demonstrations intended to augment Biological Principles I. Emphasis on unifying biological concepts and methods in science. Laboratory 3 hours. (Available for General Education, Natural Sciences, if required in a student’s major).

107. BIOLOGICAL PRINCIPLES II (3)
Prerequisite: CHEM 101; previous or concurrent enrollment in CHEM 102; and concurrent enrollment in BIOL 107L. An analysis of selected topics illustrating major concepts in biology, including biological chemistry, cells, molecular genetics, animal development and plant and animal physiology. Lecture 3 hours. (Available for General Education, Natural Sciences, if required in a student’s major).

107L. BIOLOGICAL PRINCIPLES II LABORATORY (1)
Prerequisite: Concurrent enrollment in BIOL 107. Observations, experiments and demonstrations intended to augment Biological Principles II. Emphasis on unifying biological concepts and methods in science. Laboratory 3 hours. (Available for General Education, Natural Sciences, if required in a student’s major).
211. HUMAN ANATOMY (2)
Prerequisites: BIOL 101 or 107, and concurrent enrollment in BIOL 212. A survey of the gross anatomy and histology of the major human organ systems including the muscle and skeletal systems, the digestive, circulatory, respiratory, excretory, endocrine and reproductive systems. May not be counted as part of the Biology Major. Lecture 2 hours.

212. LABORATORY STUDIES IN HUMAN ANATOMY (1)
Prerequisite: Concurrent enrollment in BIOL 211. An examination of the anatomy and histology of the major organ systems by dissection and microscopic study. May not be counted as part of the Biology Major. Laboratory 3 hours.

215. INTRODUCTORY MICROBIOLOGY (4)
Prerequisite: BIOL 101 or 107, Chemistry 104, and BIOL 281 (or Chemistry 235). Introduction to the biology of major groups of microorganisms including their role in infectious diseases, their role in nature and their relationship to humankind. Lecture 2 hours, laboratory 6 hours.

220. HUMAN ECOLOGY: OUR PLACE IN NATURE (2)
Prerequisite: BIOL 100 or 101 or 106 or 107. Our influence on the environment, the influence of the environment on us. May not be taken for credit in Biology major. (Available for General Education, Natural Sciences.) Lecture 2 hours.

241. HUMAN PREGNANCY AND EMBRYOLOGY (3)
Prerequisite: BIOL 100 or 101 or 106 or 107. Description of biological events leading up to ovulation, emission, conception, implantation and pregnancy, and the resulting stages of human development including placenta development and birth, with a discussion of biological aspects of genetic counseling, birth defects, miscarriage, and abortion. Lecture 3 hours. Available for Biology minor credit but not for Biology major. (Available for General Education credit in Natural Sciences.) Lecture 2 hours.

241L. HUMAN PREGNANCY AND EMBRYOLOGY LABORATORY (1)
Prerequisites: BIOL 241 (may be taken concurrently). Observation of slides, preserved specimens, and plastic models, demonstrating male and female gamete production; changes of uterus and ovary during menstrual cycle and pregnancy; normal and abnormal human chromosomes; human blood groups leading to problem pregnancies; pregnancy tests; human development with emphasis on nervous system, eye, heart, skeleton, external genitalia and internal sex organs. Laboratory 3 hours. May be used to satisfy General Education laboratory requirements in Natural Sciences provided Biol. 241 is also completed. May not be used for credit in Biology major.

260. HEREDITY (2)
Prerequisite: BIOL 100 or 101 or 106 or 107. The biological basis for heredity. Emphasis is on the mechanism of gene transmission and function; the nature of genetic disease; and the applications of recombinant DNA research to the discipline. May not be taken for credit by students who have completed BIOL 360. May not be used for credit in Biology major. Lecture 2 hours.

281. HUMAN PHYSIOLOGY (3)
Prerequisite: BIOL 101 or 107. A survey of the physiology of nerve and muscle, the digestive, circulatory, respiratory, excretory, endocrine and reproductive systems. Lecture 3 hours.

282. LABORATORY EXPERIMENTS IN HUMAN PHYSIOLOGY (1)
Prerequisite: BIOL 101 or 107, and BIOL 281 which may be taken concurrently. Selected laboratory experiments in human physiology. Laboratory 3 hours.

285. BIOLOGY OF CANCER (2)
Prerequisite: BIOL 100 or 101 or 106 or 107. A study of the disease of cancer from a biological viewpoint, emphasizing the cellular, biochemical and environmental aspects of the disease with discussion on the types of cancer, their diagnosis and treatment. Lecture 2 hours. (Available for General Education credit in Natural Sciences.) May not be used for credit in Biology major.

300. ISSUES IN BIOLOGY (3)
Prerequisite: Completion of lower division writing requirement. An introduction to current issues in biology with emphasis on topics of particular interest or concern to society. Students are expected to take an active role in discussion of pertinent articles from contemporary periodicals. Two hours/week recitation and one hour/week seminar. A student may not receive credit for both BIOL 100 and BIOL 300. Satisfies General Education credit in Natural Sciences. May not be used for credit in the Biology major.

310. FUNCTIONAL HUMAN ANATOMY (3-4)
Prerequisites: BIOL 101 or BIOL 106 and 107, and BIOL 281 which may be taken concurrently. A comprehensive study of the major human organ systems including the muscle and skeletal systems, the digestive, circulatory, respiratory, excretory, endocrine and reproductive systems. May not be counted as part of the Biology Major. Lecture 3 hours, optional laboratory 3 hours. Cadaver dissection is included in laboratory.

311. COMPARATIVE ANATOMY (4)
Prerequisites: BIOL 101 or BIOL 106 and 107. The evolution of vertebrate structure. Comparative morphology of vertebrate types. Lecture 2 hours, laboratory 6 hours.

312. VERTEBRATE BIOLOGY (3)
Prerequisite: BIOL 101 or BIOL 106 and 107, and concurrent enrollment in BIOL 392F. Introduction to the Biology of Vertebrates including aspects of their evolution, ecology, life history, and behavior. Lecture 2 hours, laboratory 3 hours.

313. INVERTEBRATE ZOOLOGY (3)
Prerequisite: BIOL 101 or BIOL 106 and 107, and concurrent enrollment in 392B. Biology and classification of the invertebrate animals, with emphasis on marine forms. Evolutionary and adaptive implications of form and function will be considered. Lecture 2 hours, laboratory 3 hours.

315. PRINCIPLES OF MICROBIOLOGY (4)
Prerequisites: BIOL 101 or BIOL 106 and 107, and CHEM 333. Introduction to the biology of microorganisms with emphasis on the bacteria. A general course designed for Biology majors and students who wish to pursue further study in microbiology or bacteriology. Credit will not be allowed for both 215 and 315. Lecture 2 hours, laboratory 6 hours.

316. PLANT BIOLOGY (3)
Prerequisite: BIOL 101 or BIOL 106 and 107. A survey course covering those aspects of cytology, physiology, systematics, anatomy, morphology, and ecology unique to plants. Lecture 3 hours.
320. PLANTS AND ANIMALS OF SOUTHERN CALIFORNIA (2)
Prerequisites: BIOL 100 or 101 or 106 or 107, concurrent enrollment in BIOL 392E, and completion of lower-division writing requirement. A course for non-science majors to acquaint them with the classification, behavior, ecology and distribution of the more important plants and animals of southern California. May not be counted as part of Biology major. Lecture 2 hours. Students using this course to satisfy a General Education requirement in Natural Sciences may use Biol. 392E to satisfy the laboratory requirement.

325. LIFE IN THE SEA (3)
Prerequisite: BIOL 100 or 101 or 106 or 107, and completion of lower-division writing requirement. From the shore to the depths, analysis of the diversity of life in the world’s oceans with emphasis on the southern California biota. May not be counted as part of the Biology major. Lecture 3 hours. (Available for General Education, Natural Sciences.)

325L. LIFE IN THE SEA LABORATORY (1)
Prerequisites: Biology 101 or Biology 106 and 107. An introduction to the basic concepts of population biology, including the mechanics of evolution, the methods of classification, and the principles of population ecology. Lecture 3 hours.

330. DESIGN AND ANALYSIS OF EXPERIMENTS (3)
Prerequisites: Mathematics 105, 140, or 255A. How to structure biological experimentation will be analyzed also. Lecture 2 hours, laboratory 3 hours.

335. APPLIED MICROBIOLOGY (4)
Prerequisites: BIOL 106 and 107, and BIOL 215 or 315. An examination of the role of microbes and their control in the production and deterioration of foods, in industry, in agriculture, in waste disposal and in the production of energy. Lecture three hours, laboratory three hours.

360. GENETICS (3)
Prerequisite: Biology 101 or Biology 106 and 107, and completion of the lower-division writing requirement. The role of the genes in the control of heredity, development, cellular metabolism and function of the organism; the relationship of the genes to chemical modulators; mutations and mutagens; the effects of radiation on genetic materials; the gene in evolution. Lecture 3 hours.

380. CELL BIOLOGY (3)
Prerequisites: Chemistry 333 or 235, and either Biology 101 or Biology 106 and 107. A study of the organization of cells with emphasis on structure, chemical composition, bioenergetics, metabolism, regulation of metabolism, cell differentiation and special cell functions. (Concurrent enrollment in Biol. 381 required of Biology majors in B.S. Options I, III and IV.) Lecture 3 hours.

381. CELL BIOLOGY LABORATORY (1)
Basic laboratory techniques in cell biology, including calorimetry and spectrophotometry, centrifugation, enzymological assays, respirometry and cell counting. Laboratory 3 hours. (Required of Biology majors in B.S. Options I, III and IV.)

392. FIELD STUDIES IN BIOLOGY (1)
Prerequisite: Concurrent enrollment in the corresponding 300-level course. B—Invertebrate Zoology; F—Vertebrate Biology.

392E. FIELD STUDIES: PLANTS AND ANIMALS OF SOUTHERN CALIFORNIA (1)
Prerequisite: Concurrent enrollment in Biol. 323 and completion of the lower-division writing requirement. A course for non-science majors to provide field experience in the identification of common plants and animals of southern California, their ecology, behavior, distribution and interrelations. (This course may be used to satisfy the laboratory requirement of General Education when Biol. 323 is also used to satisfy the Natural Science requirement.)

COURSES ACCEPTABLE FOR THE MASTER’S DEGREE
(300-level courses and BIOL 490, 497EE, and 499 do not carry graduate credit for a Master’s degree in Biology. A maximum of 9 units of 400-level courses may be applied toward the Master’s degree.)

403. PLANT MORPHOLOGY (4)
Prerequisite: Biology 101 or Biology 106 and 107. The structure and evolution of plants; comparative lifecycles and reproductive mechanisms in the major phyla. Lecture 2 hours, laboratory 6 hours.

406. SYSTEMATIC BOTANY (3)
Prerequisites: Biology 101 or 106, and concurrent enrollment in 492K. The classification, identification and evolutionary relationships of vascular plants. Lecture 2 hours, laboratory 3 hours.

407. PLANT ECOLOGY (3)
Prerequisite: BIOL 322 and concurrent enrollment in BIOL 492N. An examination of plants and their habitats from an ecological and evolutionary perspective. Concepts of adaptation, species diversity, and biological change over time will be stressed. Lecture 2 hours, laboratory 3 hours.

410. MEDICAL MICROBIOLOGY (4)
Prerequisite: Biology 215 or 315, and 380. A study of bacterial pathogens with emphasis on mechanisms of pathogenicity, diagnosis, chemotherapy, and host interaction. Lecture 2 hours, laboratory 6 hours.
411. ANIMAL HISTOLOGY (4)
Prerequisites: Biology 101 or 106 and 107 and Chemistry 334. Microscopical and histochemical analysis of mammalian cells as organized into tissue and organ systems. Lecture 2 hours, laboratory 6 hours.

415. MAMMALOGY (4)
Prerequisite: Biology 322. Classification, ethology and ecology of mammals. Adaptive and evolutionary significance of form and function will be considered. Lecture 2 hours, laboratory and field work 6 hours.

417. MICROBIAL PHYSIOLOGY (4)
Prerequisites: BIOL 215 or 315, 380 and CHEM 334. The metabolism and special physiology of microbial forms of life, with special emphasis on the bacteria. Lecture 2 hours, laboratory 6 hours.

418. BACTERIAL DIVERSITY (4)
Prerequisite: BIOL 315. An analysis of evolution, diversity and relationships among the bacteria, as illustrated by a detailed study of the more specialized groups of bacteria with regard to cell form, habitat, and developmental abilities. Lecture 2 hours, laboratory 6 hours.

419. MICROBIAL ECOLOGY (3)
Prerequisites: Biology 315 and 322, and concurrent enrollment in 492C. An examination of the natural distribution of bacteria, fungi, algae and protozoa in the biosphere, and a study of the physical, chemical and biological factors which govern their distribution. Inquiry into the role of microbes as they interact directly and indirectly with higher organisms in the ecosystem. Lecture 2 hours, laboratory 3 hours.

421. MARINE BIOLOGY (3)
Prerequisites: Biology 322, and concurrent enrollment in Biology 492B. Biology 313 recommended. Marine life of the world with special emphasis on the shore and shallow sea. Identification, distribution, physiological and morphological adaptation of marine forms. Lecture 2 hours, laboratory 3 hours.

422. PHYSIOLOGICAL ECOLOGY (4)
Prerequisite: Biology 322. Study of physiological, morphological and behavioral responses of organisms to physical environmental factors such as temperature, light, water salinity. Lecture 2 hours, laboratory 6 hours.

423. FIELD ECOLOGY (2)
Prerequisites: Biology 322, passing score on Entry-Level Math Exam (ELM) and concurrent enrollment in Biology 492F. The techniques used in studying population dynamics, the development and functioning of biological communities and the interaction among organisms in the natural environment. Lecture 2 hours.

424. ECOLOGICAL MODELING (3)
Prerequisites: Biology 322, passing score on Entry-Level Math Exam (ELM) and concurrent enrollment in Biology 492G; statistics is recommended. The use of simulation models in understanding ecological interactions, and the use of computers in such analyses. Students will create models that simulate population, community, and ecosystem dynamics. Interested students may extend these techniques into other areas of biology. Lecture 2 hours, laboratory 3 hours.

426. BIOLOGY OF DESERTS (2)
Prerequisite: Biology 322 and concurrent enrollment in 492P. Study of life in deserts with emphasis on the organisms of the deserts of southwestern U.S.; structural, physiological, and behavioral adaptations for survival; identification and ecology of desert organisms; techniques for studying desert ecology. Lecture 2 hours.

427. PRINCIPLES OF ECOLOGY (3)
Prerequisite: BIOL 322. Lectures will summarize the major concepts and controversies of ecology. Discussions and activities will focus on case studies from the classic and recent original literature. Lecture two hours, laboratory three hours.

435. PARASITOLOGY (4)
Prerequisites: Biology 101 or Biology 106 and 107. Study of the biology of parasites and other symbionts. Lecture 2 hours, laboratory 6 hours.

441. EMBRYOLOGY (4)
Prerequisites: Biology 360 or 380. Cellular, physiological, and anatomical aspects of embryonic development with emphasis on vertebrates. Mechanisms of morphogenesis and differentiation. Lecture 2 hours, laboratory 6 hours. Course credit only if lecture and laboratory are completed concurrently.

447. FULL IMMERSION RESEARCH EXPERIENCE (FIRE) (4)
Prerequisites: Biology 380, Chemistry 333 & 334, Physics 100A & 100B. An innovative undergraduate experience in creativity which invites participants to engage scientific research in its fullness as co-learners, and where student-initiated ideas ascend through a system of collaborative as well as independent strategies involving peer review, recitation, tutorials, experimental work, and oral and written communication. Lecture 2 hours, laboratory 6 hours.

468. HUMAN GENETICS (3)
Prerequisites: Biology 360, Math 105 or 106 or 140 or score on the Math Placement Test sufficient for admission to Math 255A. The study of variation and heredity in humans. The course includes immunogenetics, polygenic inheritance and population genetics as well as abnormalities of chromosomes and metabolism and their consequences.

470. BIOTECHNOLOGY (3)
Prerequisites: Biology 360 and 380. The application of organisms, biological systems, and processes to manufacturing and service industries. The role of microorganisms in industrial, agricultural, and pharmaceutical processes, biologically produced sources of energy, single cell protein, waste management, mining, and other areas. The impact of genetic engineering; enzyme biotechnology; recent advances in the genetics and physiology of industrial microorganisms for strain improvement. Lecture 3 hours.

481. PLANT PHYSIOLOGY (4)
Prerequisites: Biology 380 and Chemistry 334. Plant functions: photosynthesis, respiration, cell mechanics, growth and water relations. Lecture 2 hours, laboratory 6 hours.

482. ANIMAL PHYSIOLOGY (4)
Prerequisites: Physics 100A, 100AL, 100B, 100BL. Biology 380 and Chemistry 334. Biology 312 is recommended. An examination of the processes and mechanisms by which organisms maintain themselves and interact with their environment. The adaptive significance of physiologic mechanisms is treated under certain topics. Lecture 2 hours, laboratory 6 hours.

485. IMMUNOLOGY WITH SEROLOGY LABORATORY (4)
Prerequisites: Biology 380 and 381. A study of the immune response examining humoral and cellular immunity, the
nature, structure and reactions of antigens and antibodies, mediators of immunity, hypersensitivity and immune-hematology. The laboratory emphasizes the principles and uses of serological methods for evaluation of the immune response. Lecture 2 hours, laboratory 6 hours.

487. HEMATOLOGY (4)
Prerequisites: Biology 380 and Chemistry 334. A histological, biochemical, and clinical diagnostic study of blood: blood cell formation, iron metabolism, blood pathology, and practical laboratory technology. Lecture 2 hours, laboratory 6 hours.

490. TUTORIAL STUDIES (1)
Prerequisite: With permission of instructor, open to senior Biology majors. Supervised individual projects involving reading and discussion, laboratory research, or field studies in specific areas of biology. May be repeated for a maximum of 3 units. This course does not carry graduate credit toward the M.S. degree in Biology.

492. FIELD STUDIES IN BIOLOGY (1-2)
Prerequisite: Concurrent enrollment in the corresponding 400-level course. B- Marine Biology; C- Microbial Ecology; G- Ecological Modeling; K- Systematic Botany; N- Plant Ecology; P- Deserts (each 1 unit, 3 hours per week). F- Field Ecology (2 units, 6 hours per week).

495. DIRECTED UNDERGRADUATE RESEARCH (1-3)
A course designed for students of advanced rank and proven competence in Biology. A program of original, independent research, culminating in a written report, to be carried out under the direction of one of the Biology faculty. Upon prior approval by the Biology department of a detailed research proposal the research may be performed in off-campus facilities. In such a case the report must be submitted to and evaluated by a designated member of the Biology faculty. May be repeated for credit but no more than 3 units may be applied to the elective section of any option.

496A-Z. TOPICS IN BIOLOGY (2-4)
Special studies in Biology with topics to be determined. (See subtitle in Schedule of Classes.)

497E. SUPERVISED OFF-CAMPUS EXPERIENTIAL EDUCATION (1-6)
Student work experiences that are planned, organized and evaluated by faculty in cooperation with organizations other than the University’s academic departments. No remuneration for this work may be received in addition to academic credit. Credit/No Credit only. An Academic Internship course. This course does not carry graduate credit toward the M.S. degree in Biology.

498. SENIOR THESIS (2)
Prerequisites: Biol. 330 and 499 or concurrent enrollment, senior standing in biology and consent of instructor. Student will select and do original research on a topic of current biological interest in consultation with a sponsoring faculty member. Results of this research will be presented both orally and in a written report in scientific format.

499. INDEPENDENT STUDY (1-3)
A maximum of 3 units of Independent Study may be applied to satisfy unit requirements of Elective Areas for the baccalaureate degree in Biology. No credit is allowed toward the Master’s degree in Biology.

GRADUATE
Both graduate and advanced undergraduate students may take 500-level courses. Only graduate students are permitted to enroll in 600-level courses.

502. BIOMETRY (3)
Application of quantitative methods to variation patterns in biological systems, their analysis and interpretation. Lecture 3 hours.

504. THE ALGAE (4)
Prerequisites: Biology 101 or Biology 106 and 107. A study of the algae with emphasis on their systematics, morphology, physiology and ecology. Lecture 2 hours, laboratory 6 hours.

512. HERPETOLOGY (3)
Prerequisites: Biology 101 or Biology 106 and 107, and concurrent enrollment in 592E. Biology, ecology and evolution of amphibians and reptiles. The adaptive significance of form and function will be stressed. Lectures 2 hours, laboratory 3 hours.

513. ENTOMOLOGY (4)
Prerequisite: Biology 101 or 106 and 107. Biology and classification of insects with emphasis on phylogeny and on adaptive implications of morphology. Lecture 2 hours, laboratory 6 hours.

514. AVIAN ECOLOGY (3)
Prerequisites: Biology 322. Corequisite: BIOL 592A. A consideration of the interactions between birds and their environment, including such topics as habitat requirements, resource utilization, species interactions, territoriality, and reproduction. Lecture two hours, laboratory three hours.

524. TROPICAL BIOLOGY (3)
Prerequisite: Major in Biology, including Biology 322 or equivalent. At least one course which deals with the evolution and ecology of a major group of organisms is also recommended. Examination of life functions and biotic interactions under conditions occurring in low latitude environments. Emphasis is placed on characteristics and evolution of tropical biotas and their significance in relation to the total biosphere.

525. ANIMAL BEHAVIOR (3)
Prerequisite: Biology 322. Concurrent enrollment in Biology 592D recommended. The ecology, genetics and evolution of behavior in vertebrates and invertebrates with emphasis on organisms in their natural environment. Lecture 3 hours.

526A-Z. EXTENDED FIELD STUDIES (3)
Prerequisites: Graduate standing, Biology 322, 492N. Extended field excursions during vacation periods to selected regions of the world for first-hand ecological study. Field work augmented by readings, seminars, or projects and written examinations.

527. BIOLOGY OF PELAGIC ORGANISMS (3)
Prerequisites: BIOL 322 and concurrent enrollment in BIOL 592L. A survey of organisms occupying the open ocean environment; ecological, morphological, and physiological adaptations of selected groups; population dynamics, community structure, and fisheries biology. Lecture 2 hours, laboratory 3 hours.

528. BEHAVIORAL ECOLOGY (3)
Prerequisite: BIOL 322. Corequisite: BIOL 592B. A study of the interactions between individuals and the environment. Emphasis is placed on the behavioral adaptations of animals. Lecture 2 hours, laboratory 3 hours.
529. MARINE ECOLOGY (3)
Prerequisites: BIOL 101 or BIOL 106/106L and 107/107L, BIOL 322, and concurrent enrollment in 592J. Marine community structure and dynamics. Study of the open seas, rocky and sandy shores and bays will be used to illustrate the basic features of marine communities. Lecture 2 hours, lab 3 hours.

530. ICTHYOLOGY (3)
Prerequisites: Biology 322 and concurrent enrollment in 592J. Biology, ecology, and evolution of fish. Emphasis placed on adaptive significance of form and function. Lecture 2 hours, laboratory 3 hours.

531. ECOLOGY OF MARINE FISHES (3)
Prerequisites: BIOL 530, 592J; corequisite: BIOL 592Q. Species assemblages, general ecology, adaptations and behavioral ecology of near shore marine fishes. Lecture 2 hours, laboratory 3 hours.

532. ADVANCED ICTHYOLOGY (4)
Prerequisites: Biology 530 and 592J plus Graduate standing. Advanced topics in ichthyology and fisheries biology. Advanced biosystematics of fishes; reproduction; age and growth, ecology including feeding and community structure. Lecture 3 hours, laboratory 3 hours.

536. MEDICAL MYCOLOGY (3)
Prerequisites: Biology 315 and 380. A study of mycotic pathogens; their morphology and pathogenicity, including the diagnosis and treatment of fungal diseases in people. Lecture 3 hours.

544. BIOLOGY OF VIRUSES (3)

560. ORGANIC EVOLUTION (3)
Prerequisite: Biology 360. Critical discussion of mechanisms involved in evolution of plants and animals. Lecture 3 hours.

561. THE MOLECULAR GENETICS OF MICROORGANISMS (3)
Prerequisites: Biology 360, 380, and Chemistry 333, 334. Discussion of the molecular structure of the gene, the chemistry of gene action, mutagenic agents, and genetic control mechanisms in microorganisms. Emphasis is placed on the experimental basis for current concepts in molecular genetics. Lecture 3 hours.

562. MOLECULAR GENETICS OF EUKARYOTIC ORGANISMS (3)

563. CYTOGENETICS (3)
Prerequisite: Biology 360. A correlated study of genetics and cytology in which the genetic results of chromosomal changes are investigated. Lecture 3 hours.

564. HUMAN BIOCHEMICAL GENETICS (3)
Prerequisites: Biol 360, Chem 461-462 or 464 or 365. This course will focus on different sources of human biochemical defects, the detection of such disorders, and their treatment. Lecture 3 hours.

566. GENETICS OF BACTERIA AND THEIR VIRUSES (3)
Prerequisites: BIOL 315 and 360. A study of the genetic systems found in bacteria, including transformation, conjugation and transduction. Viral replication, recombination and interaction with their bacterial hosts will be investigated from a genetic perspective. Transposable elements, plasmids and other selected topics of current interest in this field will be explored. Lecture 3 hours.

567. MEDICAL GENETICS (3)
Prerequisites: BIOL 360, MATH 105 or 106 or 140 or a score on the Mathematics Placement Test sufficient for admission to MATH255A. A study of the relationship between heredity and disease. Includes not only inherited disorders but also the role of inheritance in disease and in reactions to the environment. Lecture 3 hours.

571. MOLECULAR DIAGNOSTICS (3)
Prerequisite: BIOL 360. Survey of current techniques, applications and goals of molecular genetics research, including cloning strategies and techniques, genetic engineering techniques, progress in the Human Genome Project and related work, gene therapy, and ethical ramifications. Lecture 3 hours.

572. RECOMBINANT DNA TECHNIQUES (4)
Prerequisites: BIOL 360 and 380. Handling and processing of recombinant DNA, including DNA isolation, use of restriction enzymes, gel electrophoresis, ligation, cloning, blots, hybridization and associated microbiological techniques. Lecture 2 hours, laboratory 6 hours.

575. ELECTRON MICROSCOPY IN BIOMEDICAL SCIENCES (4)
Prerequisites: BIOL 380, PHYS 100B, and CHEM 334. A theoretical and practical treatment of electron microscopy as applied to Cell/Molecular Biology, Biotechnology, and histological and pathological conditions. Covers transmission electron microscopy (TEM) and scanning electron microscopy (SEM) with approaches such as freeze fixation, freeze etching, cryoultramicrotomy, and immunochemical binding in the study of isolated macromolecules, cells, tissues, and pathological specimens. Lecture 2 hours, laboratory 6 hours.

577. CELL AND TISSUE CULTURE (4)
Prerequisites: BIOL 380; BIOL 315 recommended. Theoretical and practical studies of animal and plant cell cultures. Techniques for primary and continuous cultures and the production of hybridomas and monoclonal antibodies are covered. Other topics include cell culture storage, karyotyping, somatic embryogenesis, cytokidifferentiation, and application of cell cultures in solving biological problems. Lectures and labs are highly integrated. Lecture 2 hours, laboratory 6 hours.

580. CELLULAR PHYSIOLOGY (4)
Prerequisites: BIOL 380 and CHEM 334. An in-depth consideration of cellular physicochemistry, including organelar structure, composition and function, macromolecular biosynthesis, metabolism, membrane transport and bio-electric phenomena. Eight class hours of integrated lecture and laboratory.

582. PRINCIPLES OF NEUROPHYSIOLOGY (4)
Prerequisites: BIOL 482 or 580, CHEM 334, PHYS 100A and 100B. CHEM 464 is recommended. An examination of the structure, function and physiological principles of the nervous system. The class surveys neuroanatomy, molecular neurobiology, sensory reception and relevant human neurological disorders. Lecture 3 hours, laboratory 3 hours.
585. MECHANISMS OF BACTERIAL PATHOGENESIS (3)
Prerequisite: BIOL 380 or equivalent. BIOL 315 and 410 are strongly recommended. An intensive study of the cellular and molecular mechanisms of bacterial pathogenesis including the contribution of the host response with emphasis on recent developments and comparative principles. Lecture 3 hours.

589. CELLULAR IMMUNOLOGY (3)
Prerequisite: BIOL 485. Advanced studies on the cellular interactions and mechanisms of the immune response, including clinical aspects of cell-mediated reactions and immunologic disorders. Lecture 3 hours.

592. FIELD STUDIES IN BIOLOGY (1)
Prerequisite: Concurrent enrollment in the corresponding 500-level course. A-Avian Ecology; B-Behavioral Ecology; D-Animal Behavior; E-Herpetology; F-Marine Ecology; H-Ichthyology; J-Pelagic Organisms; Q- Ecology of Marine Fishes. (each 1 unit, 3 hours per week).

595A-Z. SPECIAL TOPICS (1-3)

603. CURRENT TOPICS IN CELLULAR AND MOLECULAR BIOLOGY (3)
Prerequisite: Major in Biology or equivalent upper division courses. Current research in cellular and molecular biology including cell structure and organization, regulation of cellular activities, cell metabolism, cell differentiation, regulation of gene expression and cell-cell interactions. Lecture 3 hours.

604. CURRENT TOPICS IN ORGANISMAL BIOLOGY (3)
Prerequisite: Major in Biology or equivalent upper division courses. Current research in structure and function at the organismal level of organization, including genetic control, growth, development, homeostatic mechanisms and life cycles. Lecture 3 hours.

615A-E. SEMINAR IN ORGANISMAL AND POPULATION BIOLOGY (3)
Prerequisites: BIOL 691, one or more 400-level courses in the area of specialization, and graduate status. Advanced study, including student preparation and presentation of reports, in one of the following areas of biology: A. Systematics & Phylogeney; B. Morphology; C. Ecology; D. Ethology; E. Biogeography.

641. BIOCHEMISTRY OF ANIMAL DEVELOPMENT (3)
Prerequisites: BIOL 441, or 540, or 542. Advanced study in the mechanistic approach to the study of development of animals. Topics include biochemical control mechanisms of metabolism, gene activity, cell motility and adhesion, pattern formation. Lecture 3 hours.

655A-F. SEMINAR IN CELLULAR & MOLECULAR BIOLOGY (3)
Prerequisites: BIOL 691, one or more 400-level courses in the area of specialization, and graduate status. Advanced study, including student preparation and presentation of reports, in one of the following areas of biology: A. Microbiology; B. Cytology; C. Development; D. Genetics; E. Physiology; F. Immunology.

665. COLLOQUIUM IN HUMAN GENETICS (2)
Prerequisites: Acceptance into the Genetic Counseling program. Attendance at a series of lectures given by specialists to the Fellows in Medical Genetics at UCLA Medical School. Each presentation will be followed by discussion involving student participation.
BUSINESS ADMINISTRATION AND ECONOMICS, COLLEGE OF
Web Page http://www.csun.edu

ADMINISTRATIVE OFFICES (BB 3109) .................................PHONE
William R. Hosek, Dean of the College......................677-2455
William W. Roberts, Associate Dean.....................677-2466
Robert Harding, Manager of Academic Resources...677-2831
Wayne Smith, Director of Technology ..................677-2442
Connie Perez, Director of Internships...............677-4697
Heidi Wolfbauer, Dean’s Admin. Coordinator ....677-2455

GRADUATE OFFICES (BB3105)
Melanie W. Havens, Dir. of Graduate Programs.......677-2467
Kristen Walker, Assist. Dir., Graduate Programs ......677-2467

UNDERGRADUATE ADVISEMENT OFFICE (BB 3111)
Assistant to the Associate Dean ..................677-2466
Karin Eby, Director of Recruitment..................677-7342
Janet Sikorsky, Advisor..............................677-2466

BUSINESS STUDENT EQUITY CENTER (BB 2113)
Doris Johnson, Director,
Business Student Equity Center......................677-3537
Mary Bennett, Advisor.................................677-3537
Frank Nevarez, Advisor.................................677-3537
Connie Perez, Advisor.................................677-3537
Marlene Perez, Advisor.................................677-3537

EMERITUS FACULTY: James Bennett, Dorothea Extence,
Chair: Richard Gunther
Administrative Coordinator: Janet Green

ADMINISTRATIVE COORDINATOR: Dorothy Moulton
Economics ..............................................677-2462
Chair: Adam Gifford, Jr.
Administrative Coordinator: Lucy E. Larson

Finance, Real Estate and Insurance..................677-2459
Chair: William Jennings
Administrative Coordinator: Mary Neville

Management ............................................677-2457
Chair: Gerard Rossy
Administrative Coordinator: Cindy Trigg

Management Science ................................677-2470
Chair: Richard Gunther
Administrative Coordinator: Mary Neville

Marketing ..............................................677-2458
Chair: Judith Hennessey
Administrative Coordinator: Cindy Trigg

Office Systems and Business Education,
EMERITUS FACULTY: James Bennett, Dorothea Extence,
James Manos, George Watto

THE DEPARTMENTS OF THE COLLEGE
Accounting and M.I.S........................................677-2461
Chair: Earl Weiss
Administrative Coordinator: Janet Green

Business Law ...........................................677-2905
Administrative Coordinator: Dorothy Moulton

Economics ..............................................677-2462
Chair: Adam Gifford, Jr.
Administrative Coordinator: Lucy E. Larson

Finance, Real Estate and Insurance..................677-2459
Chair: William Jennings
Administrative Coordinator: Mary Neville

Management ............................................677-2457
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James Manos, George Watto

MISSION
The College of Business Administration & Economics (COBAE) provides educational opportunity to all students of promise, including those who traditionally have had limited access to higher education. Our team of faculty and staff accepts responsibility for the proficiency of our graduates in both the basic skills and the application of concepts needed to succeed.

COBAE strives to be a valued community partner. We develop and share pedagogy and intellectual contributions to promote life-long learning. We contribute expertise to advance business development, and we provide assistance and knowledge toward the understanding of commerce, and of community and organizational issues.

VISION
The College of Business Administration & Economics and California State University, Northridge are facing a dynamic, complex, and uncertain social and fiscal environment. Adapting and thriving in this environment are, and will continue to be, our most important challenges. In facing these challenges, we will need to balance the emerging needs of our students, our community, and the university of which we are citizens, and the faculty that will continue to be our most important resource. Within this context the College of Business Administration and Economics will:

• Continually ensure that our students are the most sought after by employers in our region and successful in applying to graduate programs. Our educators will be gauged by the success of their graduates in the workplace or in graduate school.

• Encourage, support and reward the scholarly and professional activities of its faculty and students. We will strive to make an intellectual contribution to both the development and application of new ideas in business and education, and nurture a community of scholars.

• Encourage innovation and allow faculty and staff to design work that is both challenging and rewarding. We will be leaders in finding new ways to meet emerging needs while preserving our core values.

• Encourage and support a culture in which faculty, students, and staff interact, working as a team to best serve the needs of our constituents. We value an integrated curriculum and the benefits gained from the diversity of ideas, disciplines, and cultures.

• Continue to build and maintain long-term relationships with our alumni and regional businesses. We will seek their involvement in the classroom and as extensions of the university. We will provide life-long learning opportunities and targeted services that will turn our intellectual capital into valuable assets for our constituencies.

As a result, the College of Business Administration & Economics will be dedicated to excellence in teaching, professional activity, and intellectual contribution.

VALUES

ETHICAL BEHAVIOR: We believe that our success ultimately depends on faculty and alumni with strong ethical foundations.

QUALITY: We commit ourselves to developing faculty and graduates who will distinguish themselves through the high quality of their contributions and the excellence of their skills.

CONTINUOUS LEARNING: We encourage faculty, students, staff, and alumni to develop a lifetime commitment to continued education and career development.

CROSS DISCIPLINE INTEGRATION AND HANDS-ON EXPERIENCES: We integrate theoretical knowledge and practical skills to solve real-life problems through the application of a variety of pedagogies.
PROFESSIONALISM: We reward high-quality faculty, students, and staff who are committed to education, the search for knowledge, and professional competence.

RESOURCE DEVELOPMENT: We believe the development of the College’s support is the responsibility of all its members and commit ourselves to acquiring the public and private resources necessary to expand and improve the College’s programs.

The programs in business administration are accredited by the AACSB: The International Association for Management Education.

STUDENT ADVISEMENT
To choose an option, to plan for sequence of major courses, and to discuss career opportunities, students should consult early in their program with a faculty advisor. Unless specifically named, all departmental faculty act as advisors for students in their major. They are available to students throughout the semester during their scheduled office hours. Advisors in the Business Student Equity Center provide orientations for new and transfer students, and are available for counseling by appointment.

BUSINESS STUDENT EQUITY CENTER
The Business Student Equity Center is a student support organization created to enhance recruitment, retention, and career placement of diverse and Educational Opportunity Program (EOP) students in the College of Business Administration and Economics. BSEC provides a range of programs designed to help students succeed in the university environment.

BUSINESS HONORS PROGRAM
The BSBA Honors Program is designed to offer academically talented students a variety of opportunities and events which have been created to enhance both their academic and personal lives throughout their educational experience here at California State University, Northridge. This program is open only to students who are declared majors in the Bachelor of Science in Business Administration (BSBA) degree program, meet all Honors Program admissions criteria, and are selected by the BSBA Honors Program Admissions Committee. Students accepted into the program are offered a variety of benefits including honors designated business courses, a professional staff member acting as the designated Honors Program contact person, mentorship program, social events and gatherings, honors symposia featuring guest speakers, and a special Honors designation on their final graduation transcripts. Students interested in this program should contact the Director of Recruitment for the College of Business Administration and Economics at (818) 677-7342.

ECONOMICS HONORS PROGRAM
The Economics Honors program is designed to offer academically talented students a variety of opportunities to enrich their academic and personal lives throughout their educational experience here at California State University, Northridge. The program is open only to students who are declared majors in the Bachelor of Arts in Economics degree program, meet all Honors Program admission criteria, and are selected by the Economics Honors Program Admissions Committee. Students accepted into the program are offered a variety of benefits including honors designated economics courses, a mentorship program, closer working relationship with faculty members, social and academic gatherings and lectures, and a special Honors designation on their final graduation transcripts.

BUSINESS PACE PROGRAM
The Business PACE (Program for Adult College Education) Program provides upper division transfer students with an opportunity to pursue their Bachelor of Science in Business Administration (BSBA) while maintaining a full-time work schedule or other daytime commitments. This is made possible by offering four 8-week courses per semester, as well as two 9-week courses during the summer, in an evening and weekend format. Students meet for class one night per week and four all-day Saturday sessions in the 8-week session. This allows for the completion of the degree in just two years.

The Program packages the upper division business curriculum required for the BSBA degree, as well as one 3-unit upper division General Education course (required for all students). Scheduling of the 15 units required for the Option will be the responsibility of the student.

Students interested in this program need to have completed 69 to 70 transferable units (including the lower division business core courses), have achieved General Education (G.E.) Certification, and have earned a minimum 2.5 GPA. For more information, contact the Director of Recruitment for the College of Business at (818) 677-7342.

INTERNSHIP PROGRAMS
The College of Business Administration and Economics offers students the opportunity to gain real life work experience by completing an approved internship. Internship opportunities are available in a wide variety of organizations, and cover all business disciplines. Not only does an internship provide students with an opportunity to obtain experience, but in many cases the internship leads to an employment opportunity with that organization. For additional information, please contact Connie Perez, Director of Internships, (818) 677-4697.

THE INSTITUTE FOR BUSINESS AND ECONOMICS
The Institute for Business and Economics facilitates the pursuit of scholarly projects and publications by faculty in the College. Centers, including the Center for International Business, the Center for Productivity Improvement and Research, the Center for Economic Education, Center for China Finance and Business Research, Center for Family Business Education and Research, Center for the Study of the San Fernando Economy, and the Center for Insurance Research and Education, have been established within the Institute to carry out specific programs. For more information, call 677-2455.

STUDENT ORGANIZATIONS
The College of Business Administration and Economics houses a number of student organizations. Participation in these associations provides an opportunity for valuable social contact and organizational experience. Emphasis is placed on career planning and meetings with representatives from business organizations.

Beta Gamma Sigma is a national honor society for students majoring in Business Administration. Undergraduate business students are elected on the basis of scholarship. Election to Beta Gamma Sigma is the highest scholastic honor an undergraduate or graduate business major can be awarded.

The College of Business and Economics Council (COBEC) is composed of the elected Senators of the College and the presidents of the student organizations in the College: the Accounting Association, Alpha Kappa Psi, Asian American Business Association, Beta Alpha Psi, Beta Gamma Sigma,

**SPECIAL DEGREE REQUIREMENTS**
Transfer students should be aware that no grade lower than a C will be accepted on transfer from another institution to satisfy College of Business Administration and Economics requirements.

**RESIDENCY REQUIREMENT:**
At least 50 percent of the business and economics course credit units and 50 percent of the specialized option credit units required for the Bachelor of Science degrees in Business Administration, Accountancy, and Business Education and the Bachelor of Arts degree in Economics must be completed in residence at California State University, Northridge.

**ACADEMIC PROGRAMS: UNDERGRADUATE**
The College of Business Administration and Economics offers curricula leading to the following baccalaureate degrees:
- Bachelor of Science Degree in Accountancy
- Bachelor of Science Degree in Business Administration
- Bachelor of Arts Degree in Economics

The course requirements for these degrees are detailed under the various department listings for the College of Business Administration and Economics. The Bachelor of Science Degree in Business Administration (BSBA) offers options in Business Law, Finance, International Business, Management, Management Information Systems (MIS), Marketing, Office Systems, Real Estate, and Systems and Operations Management.

The College of Business Administration and Economics also offers a Minor in Business, a Minor in Marketing, and an Minor in Economics.

**MINOR IN BUSINESS**
Requirements for a Minor in Business.
Complete the following lower division and upper division course requirements:

**LOWER DIVISION REQUIRED COURSES (10 UNITS)**
- ACCT 200 Foundations of Accounting Information......4
- BLAW 280 Business Law ...............................................3
- ECON 200 Principles of Economics...........................3

**UPPER DIVISION REQUIRED COURSES (9 UNITS)**
Completion of 9 units selected from the following, no more than 3 upper division units may be taken from any one department:
- FIN 303 Financial Management .................................3
  (This course has a statistics course prerequisite.)
- MGT 360 Management and Organizational Behavior.....3
- MKT 304 Introduction to Marketing Management........3
- MSCI 300 Problem Solving and Statistical Tools for Managers.........................................................3
- MSCI 306M Manufacturing Operations Management........3
  (This course has a prerequisite of MSCI 291 or equivalent.)
- MSCI 306S Operations Management of Services..........3
  (This course has a prerequisite of MSCI 291 or equivalent.)

The minor is not available to students obtaining a bachelor’s degree in Accountancy, Business Administration or Business Education.

**TOTAL UNITS IN THE BUSINESS MINOR (19 UNITS)**

**CROSS DISCIPLINARY BUSINESS COURSE LIST**

**LOWER DIVISION**

**BUS 205. ANALYSIS OF COMMUNICATION FOR BUSINESS (3)**
Prerequisites: Business Computer Literacy Requirement, Freshman Composition (‘C’ or better), and Standard English Competency Test. Presentation of concepts and techniques for developing a business style of writing and creating documents such as letters, memorandums, and reports. Overview of methods for gathering, organizing, analyzing, and presenting information for decision making. Emphasis on written and oral assignments that develop analytical thinking. Course is based on standard English usage.

**UPPER DIVISION**

**BUS 300. INTRODUCTION TO ORGANIZATIONS (0.5)**
Prerequisites: Junior standing and completion of all lower division business core courses. To be taken by Business Administration majors in the first semester of upper division business core. A multimedia presentation and a team of faculty will provide an overview of the business program and career possibilities. An organization will be used as a model for effective decision making. The course will demonstrate the importance of the functional areas and their integrated contribution to the accomplishment of an organization’s mission. Students will garner an appreciation for the various roles of individuals in an organization and their opportunities and responsibilities. CR/NC only.

**BUS 400. ANALYSIS OF ORGANIZATIONS (0.5)**
Prerequisite: BUS 300. Passing score on the Upper Division Writing Proficiency Exam (WPE). Through the use of a multimedia case presentation, students will have the opportunity to participate in the analysis of a complex organization and its environment. Students will be placed in problem solving teams according to their selected option. Teams of students will attempt to analyze the problems of the organization. A panel of faculty representing several options will demonstrate the use of strategic thinking and the importance of integrated functional knowledge in achieving organizational goals. CR/NC only.

**BUS 480. THE SAN FERNANDO VALLEY: RESEARCH ON LOCAL ISSUES (3)**
Prerequisite: Approval of instructor required for enrollment. Passing score on the Upper Division Writing Proficiency Exam (WPE). Supervised research on topics of interest to business and community leaders in the San Fernando Valley. Taught in conjunction with the Center for the Study
of the San Fernando Valley Economy in the College of Business Administration and Economics.

**BHON. 495A-C. SYMPOSIUM (1)**
Prerequisite: Junior standing and admission to the Business Honors program. Passing score on the Upper Division Writing Proficiency Exam (WPE). Each semester students will participate in a series of seminars on leading-edge business-related topics. Written reports on these topics will be submitted. Program participants must complete a minimum of three semesters of the symposia series. CR/NC only.

**BHON. 498. MENTORSHIP (3)**
Prerequisites: Junior standing and admission to the Business Honors program. Passing score on the Upper Division Writing Proficiency Exam (WPE). The Mentorship course provides business honors students the opportunity to work on a project within the University or a community organization. The range of possibilities is wide. Students may assist faculty members with research or teaching, tutoring, or develop an original project. All mentorships involve careful guidance and training from faculty members who supervise the student’s work. CR/NC only.

**EHON. 498. MENTORSHIP (3)**
The mentorship provides an opportunity for honors students to work on a project within the academic community of the university. The range of possible mentorships is wide. Students may assist faculty members with research or teaching, tutor, or develop an original project. All mentorships involve careful guidance and training from faculty members who supervise students’ work. CR/NC only.
DEGREE PROGRAMS: GRADUATE

Director: Melanie Stallings Williams, J. D., Professor of Business Law
Assistant Director: Kristen L. Walker, M.P.A
Department Office: Business Building
Phone: (818) 677-2467 Fax: (818) 677-3188
E-mail: busgrad@csun.edu
Web Page: http://www.csun.edu/busgrad

The College of Business Administration and Economics offers curricula leading to the following masters' degrees:

1. MS degree:
   Master of Science in Taxation

2. MBA degree:
   Master of Business Administration.
   Information concerning the M.S. Taxation is presented under the Accounting Department listing.

Graduate Office Web Page:
http://www.csun.edu/COBAegrad

DEGREE PROGRAMS

For admission applicants must:

1. Meet the requirements of the University as listed in the Catalog.

2. File formal application for admission, and forward official transcripts of all undergraduate and graduate university work no later than four months prior to the beginning of the semester in which the applicant wishes to enroll (see Catalog for University requirements for applications).

3. Take the Graduate Management Admission Test no later than May 30th (if applying for the Fall semester) or Nov. 30th (if applying for the Spring semester), and submit an original score report to the College of Business Graduate Office. International students must take the GMAT by October to be considered for Fall admission, or by April to be considered for Spring semester. Scores are normally valid for 5 years.

4. In the case of foreign applicants, submit a Test of English as a Foreign Language (TOEFL) score of at least 550 with the formal application.

5. For the M.S. Degree Program, students must:
   Be accepted by the College of Business Administration and Economics.
   Normally, applicants should have a 3.0 grade-point average in the last 60 semester units (or 90 quarter units) and have earned a score of at least the 50th percentile on each section of the Graduate Management Admission Test. Each applicant's application will be reviewed to determine whether the student shows high promise of success in the program.

For the MBA Degree Program Students Must:

Be accepted by the College of Business Administration and Economics.

Normally, applicants should have a 3.0 grade-point average in the last 60 semester units (or 90 quarter units) and have earned a score of at least the 50th percentile on each section of the Graduate Management Admission Test. Applicants should submit a resume summarizing their work experience. Each applicant's application will be reviewed to determine whether the student shows high promise of success in the program.

Note: Courses in the graduate programs are generally offered on Monday through Thursday evenings and on Saturdays.

TIME LIMIT FOR COMPLETION

Consult the “Graduate Programs” section of the catalog for complete information. Please note that students must complete requirements for either degree within five calendar years from the date of admission.

CROSS DISCIPLINARY BUSINESS COURSE LIST

GRADUATE

GBUS 502. SEMINAR IN MANAGERIAL FINANCE/ACCOUNTING (3)
Prerequisite: ACCT 501. An interdisciplinary course dealing with the financial decision-making process. Topics include the analysis and interpretation of financial statements, product costing including activity based overhead cost allocations, financial planning and budgeting, working capital management, valuation, capital budgeting, sources of capital and capital structure, dividend policy, and the management of risk and return in an international context.

GBUS 600. ANALYSIS OF CONTEMPORARY ORGANIZATIONS (3)
An interdisciplinary course that introduces new graduate students to the field of business. The course focuses on the nature of organizations and the interrelatedness of the functional areas. The intellectual and historic roots of management theories are explored through readings of primary source materials. Students will develop communication and research skills through individual and group projects that focus on organizations and their environment.

GBUS 660. SPECIAL TOPICS SEMINAR: TRAINING IN ORGANIZATIONS (3)
An interdisciplinary course that introduces new graduate students to the field of business. The course focuses on the nature of organizations and the interrelatedness of the functional areas. The intellectual and historic roots of management theories are explored through readings of primary source materials. Students will develop communication and research skills through individual and group projects that focus on organizations and their environment.

GBUS 694A-G. GRADUATE READINGS (3)
Prerequisite: Permission of Department Chair and Director of Graduate Programs. Individual departments may have specific course prerequisites. Supervised readings for graduate students desiring greater knowledge not available in established courses. Provides opportunity to explore interdisciplinary approaches.

GBUS 695A-G. SPECIAL TOPICS (3)
Prerequisite: Permission of Department Chair and Director of Graduate Programs.

GBUS 696A-G. DIRECTED GRADUATE RESEARCH (1)
Prerequisite: Permission of Department Chair and Director of Graduate Programs.

GBUS 697A-G. DIRECTED COMPREHENSIVE STUDIES (3)
Prerequisite: Permission of Director of Graduate Programs. Open only to graduate students who have completed or are currently completing their course requirements and have only the Comprehensive Exam to take. Not open to students writing a thesis.

GBUS 698A-G. GRADUATE THESIS (3-6)
Prerequisite: Permission of Department Thesis Committee and Director of Graduate Programs. The number of units allowed will depend upon the study undertaken.
MASTER'S IN BUSINESS ADMINISTRATION

MASTER OF BUSINESS ADMINISTRATION

The Master of Business Administration (MBA) is a professional program for students desiring an advanced degree in general business management. The mission of the MBA program is to prepare the student for leadership in organizations serving a diverse, internationally oriented community by integrating academic scholarship, the study of business practices, and the student’s life experience.

The program’s focus is interdisciplinary. It merges quantitative and qualitative approaches to help the student think critically and communicate effectively in a rapidly changing, technologically oriented, global environment. The program promotes a sensitivity about ethical issues and an understanding of the legal constraints under which business must operate. A spirit of collegiality among the students, faculty, and local community is fostered through social and professional activities. The program is designed to be accessible to the fully employed student.

The average course load for MBA students is six units per semester (two nights per week). With few exceptions, graduate courses are offered from 7:00 to 10:00 p.m., Monday through Thursday evenings along with some Saturdays.

The graduate program in business administration is accredited by the International Association for Management Education (AACSB).

REQUIREMENTS FOR THE DEGREE:

1. Prerequisite Skills: Candidates are expected to have a basic working knowledge of computers. Students who have not had a course in computer concepts involving data base management and spreadsheet software will be required to either demonstrate proficiency through a waiver examination or by completion of MIS 225 or COMP 100 and MIS 226 within their first year. Students will not receive credit in the MBA program for these remedial courses. Students must demonstrate proficiency in mathematics and statistics. Complete information is available from the Graduate Office.

Applicants who apply to the MBA program will have their transcripts evaluated against the prerequisite courses listed below. Past coursework may or may not have included the equivalents for the prerequisite courses. If there are any deficiencies, they must be met before the student will be advanced to classified graduate standing. Undergraduate course equivalents may be substituted only with the approval of the Director of Graduate Programs.

PREREQUISITE COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLAW 508</td>
<td>Law in the Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 591</td>
<td>Managerial Decision Support Models and Methods</td>
<td>3</td>
</tr>
<tr>
<td>ECON 500</td>
<td>MBA Survey of Economics</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 501</td>
<td>MBA Accounting</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 502</td>
<td>Seminar in Managerial Finance/Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

REQUIREMENTS FOR THE DEGREE:

A minimum of 33 units of approved graduate work, exclusive of the GBUS 697G Directed Comprehensive Studies, comprised of the following:

2. Core:

The following courses are required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBUS 600</td>
<td>Analysis of Contemporary</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Electives and Concentrations:

A. A minimum of nine (9) units of electives must be selected from the list of 600-level courses offered by the School of Business Administration and Economics with approval of the Director of Graduate Programs. Students must satisfy prerequisite requirements for any courses selected.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 628</td>
<td>Computer Based Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECON 600</td>
<td>Seminar in Economic Topics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 635</td>
<td>Seminar in Financial Theory and Policy</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 686</td>
<td>Seminar in Internationally competitive Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 640</td>
<td>Marketing Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MGT 620</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGT 693</td>
<td>Seminar in Strategic Management</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS (Core Courses) ................................................. 24

4. Comprehensive Examination

The Comprehensive Examination must be taken within ten semesters of beginning course work in the program. In order to sit for the exam, students must have completed or be in the process of completing all courses in their 33-unit program. In addition, students must register for the GBUS 697G Directed Comprehensive Studies (3 units). The GBUS 697G Directed Comprehensive Studies is not included in the 33-unit program. A candidate who fails the Comprehensive Examination must retake the exam within the following two semesters. A second failure will disqualify the candidate.

5. GPA Requirements:

Students will be expected to maintain a cumulative GPA of 3.0 in all MBA courses taken. In addition, a 3.0 minimum cumulative GPA must be maintained in all courses taken after conditional or classified admission to the MBA program. Students who fail to complete the first 15 units with a minimum of 3.0 GPA will be disqualified from the program. Candidates who are on probation will not be permitted to sit for the Comprehensive Examination.

COURSE LIST - GRADUATE BUSINESS

See listing under Business Administration and departments.
DEPARTMENT OF ACCOUNTING AND
MANAGEMENT INFORMATION SYSTEMS

Chair: Earl J. Weiss

COLLEGE OF BUSINESS ADMINISTRATION AND ECONOMICS

Department Office: Business Building 3123
Phone: (818) 677-2461  FAX: (818) 677-2456
Web Page: http://www.csun.edu/acct
Administrative Coordinator: Janet Green


DEPARTMENT ADVISORY COUNCIL: Peter Cyffka (Senior Vice-President, Finance; Twentieth Century Fox Film Co), Mark Dauberman (Mark’s CPA Review), Mike Embree (Partner; Ernst & Young, LLP), Ronald Friedman (Partner; Stonefield Josephson CPAs), Bob Greenspan (Partner; Moss Adams, LLP), Gary Iskowitz (Gary Iskowitz, LLP), Robert Langham (Partner; Arthur Andersen, LLP), Dave Merritt (Partner; KPMG Peat Marwick), Richard Orosco (Volunteer & Education Program Manager; PricewaterhouseCoopers, LLP), Robert Pearlman (Partner; Grant Thornton, LLP), David Primus (Partner; Sobul, Primes & Schenkell, CPAs), Tony Radaich (Partner; Grant Thornton, LLP), Robin Rousselet (Chief Financial Officer; Voit Company), Don Rudkin (Partner; Deloitte & Touche, LLP), Alfred Siegel (Partner; Grobstein, Horwath & Company), Ron Silver (Partner; Ernst & Young, LLP), Nancy Wheeler (Partner; Hecox, Horn & Wheeler, CPAs), Dale Winson (President; IKONOOffice Solutions), Sam Yellen ([Retired] Partner, KPMG Peat Marwick)

MISSION

The Department provides programs of excellence in Accounting and Management Information Systems to students demonstrating the potential and motivation to pursue these courses of study. Students can expect a realistic and competitive environment in the programs offered by the Department.

DEGREE PROGRAMS OFFERED BY THE DEPARTMENT

1. Bachelor of Science in Business Administration
   - Option in Management Information Systems
2. Bachelor of Science in Accountancy
3. Master of Science in Taxation
4. Master of Science in Accounting Information Systems

ACADEMIC ADVISEMENT:

Advisement materials are available in the Associate Dean’s Office, the Department Office, on the Department’s website (www.csun.edu/acct), in the Business Student Equity Center, and from Department faculty. Department faculty will be available during their scheduled office hours to advise students, and appointments may be made to meet with faculty at other times. Students are encouraged to meet with faculty advisors periodically to review their progress and plans.

INTERNATIONAL EDUCATION: The Department of Accounting and Management Information Systems supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Program Study Centers in foreign countries are equivalent to courses in the Department of Accounting and Management Information Systems and may be used to fulfill some of the requirements for degree options offered by the Department and/or certain general education requirements. Students should consult the International Programs Bulletin available in the Office of Student Development and International Programs, a departmental advisor, or the campus International Programs Advisor for more information.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN ACCOUNTANCY

CAREERS

This program develops an understanding of accounting theory, technical procedures and the professional standards and ethics essential for the business accountant, or the accountant for not-for-profit institutions and governments. It provides a broad basis for the advanced study necessary for the student who plans to practice as a Certified Public Accountant, Certified Management Accountant, or Certified Internal Auditor, or who desires to acquire additional academic training for the teaching of accounting.

REQUIREMENTS FOR ADMISSION TO THE MAJOR

Students may declare Accountancy as their major upon admission to the University or by filing a Change of Major. The Accounting faculty believe that students should not select Accountancy as a major unless they have at least a “B-” average and have a strong commitment to become a professional accountant.

LOWER DIVISION REQUIRED COURSES (19-25 UNITS)

ACCT 200 Foundations of Accounting Information........4
BLAW 280 Business Law I.............................................3
ECON 200 Principles of Economics................................3
MSCI 291 Statistical Methods in Business and
Economics........................................................3
BUS 205 Analysis of Communication for Business.......

BUSINESS COMPUTER LITERACY REQUIREMENT

A passing score in the Business Computer Literacy Exam (BCLE) or completion with a “C” or better in (a) COMP 100 and Credit (CR) for MIS 226L or (b) Credit (CR) for MIS 225 A, B, C, and D or (c) transfer equivalent. Information about the BCLE is available in the Department Office.

MATH PROFICIENCY REQUIREMENT (3-5 UNITS)

Completion with a “C” or better in (a) MATH 103 or
(b) MATH 150A or (c) MATH 255A or (d) transfer equivalent.

UPPER DIVISION REQUIRED COURSES (31 UNITS)

ACCT 320 Cost Analysis for Management Decisions ......3
BLAW 308 Business Law II.............................................3
ECON 310 Price Theory and Applications................3
ECON 311 Money, Income, & International Economics...3
FIN 303 Financial Management..................................3
MGT 360 Management and Organizational Behavior....3
MGT 497 Strategic Management Seminar...............3
MIS 324 Management Information Systems .............3
MKT 304 Introduction to Marketing Management.......3
MSCI 316 Managerial Decision Support Models and Methods.........................................................4
ACCOUNTING CONCENTRATION (6 UNITS)
(Information is available in the Department Office.)

ACCOUNTING COURSES (20 UNITS)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 350</td>
<td>Intermediate Financial Accounting I</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 351</td>
<td>Intermediate Financial Accounting II</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 352</td>
<td>Intermediate Financial Accounting III</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 353</td>
<td>Communications for Financial Accounting</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 354</td>
<td>Measurement &amp; Management of Costs</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 355</td>
<td>Taxation of Business Entities</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 356</td>
<td>Auditing Principles</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 357</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may satisfy ACCT 350 by passing the Technical Accounting Literacy Exam (TALE). The exam is administered by the Department. It tests a student’s knowledge and understanding of the processes necessary to record, organize and present accounting information in financial statements. The exam uses a multiple choice and problem format. Students may take the TALE only once.

TOTAL UNITS IN THE MAJOR (76-82 UNITS)

GENERAL EDUCATION (39-40 UNITS)
The required pattern of General Education consists of 52 units distributed among six areas (Section A, B, C, D, E, F). Three units of the mathematics requirement satisfies Section A3. BLAW 280 and COMP 100 satisfy the 4-unit requirement of Section E. In addition, ECON 310 and ECON 311 satisfy 6 units of Section D course requirements and, if taken after junior status is achieved, satisfy 6 units of upper division General Education course requirements.

TITLE 5 (6 UNITS)
U.S. History and State and Local Government

ADDITIONAL UNITS (0-7 UNITS)
Unrestricted elective units

TOTAL UNITS REQUIRED FOR THE B.S. DEGREE IN ACCOUNTANCY: 128

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION

OPTION: MANAGEMENT INFORMATION SYSTEMS

CAREERS
This program provides preparation for careers in management information systems, such as information systems specialist, computer systems analyst, data base administrator, and information center specialist. Management information systems consists of the management of information technology – computers, data and voice communications – to support business operations and corporate strategy, in addition to providing all necessary transaction processing for an organization.

REQUIREMENTS FOR ADMISSION TO THE PROGRAM
Students may declare Management Information Systems as their major upon admission to the University or by filing a Change of Major.

SPECIAL GRADE REQUIREMENTS
The MIS faculty believe that students should not select MIS as an option unless they have at least a “B” in MIS 324.

LOWER DIVISION REQUIRED COURSES (19-25 UNITS)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 200</td>
<td>Foundations of Accounting Information</td>
<td>4</td>
</tr>
<tr>
<td>BLAW 280</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Principles of Economics</td>
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</tr>
<tr>
<td>MSCI 291</td>
<td>Statistical Methods in Business and Economics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 205</td>
<td>Analysis of Communications for Business</td>
<td>3</td>
</tr>
<tr>
<td>MATH 203</td>
<td>Cost Analysis for Management Decisions</td>
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<tr>
<td>BUS 300</td>
<td>Introduction to Organizations</td>
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<tr>
<td>BUS 400</td>
<td>Analysis of Organizations</td>
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<tr>
<td>ECON 310</td>
<td>Price Theory and Applications</td>
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<tr>
<td>ECON 311</td>
<td>Money, Income, &amp; International Economics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 360</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGT 497</td>
<td>Strategic Management Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MIS 324</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 304</td>
<td>Introduction to Marketing Management</td>
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</tr>
<tr>
<td>MGT 497</td>
<td>Strategic Management Seminar</td>
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<tr>
<td>MIS 430</td>
<td>Data Base Management Systems</td>
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<td>MIS 410</td>
<td>Accounting Information Systems</td>
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<tr>
<td>MIS 420</td>
<td>Systems Analysis and Design</td>
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<tr>
<td>MIS 440</td>
<td>Business Expert Systems</td>
<td>3</td>
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<tr>
<td>MIS 450</td>
<td>Business Data Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 470</td>
<td>Systems Development Project</td>
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<tr>
<td>MIS 490</td>
<td>MIS Policy and Management</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 306M</td>
<td>Manufacturing Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 306S</td>
<td>Operations Management of Services</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 316</td>
<td>Managerial Decision Support Models</td>
<td>4</td>
</tr>
<tr>
<td>COMP 101</td>
<td>Introduction to Algorithms</td>
<td>2</td>
</tr>
<tr>
<td>COMP 105COB</td>
<td>Computer Programming in COBOL</td>
<td>1</td>
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<tr>
<td>MIS 410</td>
<td>Accounting Information Systems</td>
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<tr>
<td>MIS 420</td>
<td>Systems Analysis and Design</td>
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<tr>
<td>MIS 430</td>
<td>Data Base Management Systems</td>
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</tr>
<tr>
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<td>Business Expert Systems</td>
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<td>MIS 450</td>
<td>Business Data Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 470</td>
<td>Systems Development Project</td>
<td>3</td>
</tr>
<tr>
<td>MIS 490</td>
<td>MIS Policy and Management</td>
<td>3</td>
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</table>
| TOTAL UNITS REQUIRED FOR THE MAJOR: 72-81

GENERAL EDUCATION (39-40 UNITS)
The required pattern of General Education consists of 52 units distributed among six areas (Section A, B, C, D, E, F). Three units of the mathematics requirement satisfies Section A3. BLAW 280 and COMP 100 satisfy the 4-unit requirement of Section E. In addition, ECON 310 and ECON 311 satisfy 6 units of Section D course requirements and, if taken after junior status is achieved, satisfy 6 units of upper division General Education course requirements.

TITLE 5 REQUIREMENTS (6 UNITS)
(U.S. History and State and Local Government)
1. REQUIRED COURSES (18 UNITS)

MISSION
To provide advanced, relevant tax education to working professionals.

REQUIREMENTS FOR ADMISSION TO THE PROGRAM
After receiving a Baccalaureate degree, the requirements to enter the M.S. in Taxation program are:
1. A 3.0 grade point average in the last 60 semester units.
2. A score of at least the 50th percentile on each section of the Graduate Management Admissions Test, or proven success in another accredited graduate program.
3. The Upper Division Writing Proficiency Exam is a prerequisite to classification. Completion of the following prerequisite coursework or equivalents is required for admission to classified graduate status. An applicant who possesses a bachelor’s degree in Business will be exempt from each prerequisite course that was completed by equivalent undergraduate coursework.

ACCT 600TX Federal Income Taxation of Individuals ....3
ACCT 610TX Tax Research and Communication..............3
ACCT 620TX Income Tax Concepts & Their Business Applications..................3
ACCT 630TX Income Taxes of Corporations and Shareholders I..........................3
ACCT 633TX Income Taxation of Partnerships..........3
ACCT 645TX Federal Tax Procedure..........................3

ACCT 640TX Tax Principles and Financial Accounting Pronouncements ....3
ACCT 661TX State and Local Taxes ........................3
ACCT 670TX Tax Clinic ........................................3
ACCT 675TX Advanced Federal Income Tax Seminar ....3
ACCT 680TX Advanced Research in Taxation..........3
BLAW 609 Law of Estates, Wills and Trusts.............3
GBUS 698A Graduate Thesis .........................3

REQUIREMENTS FOR THE DEGREE
A. Completion with a 3.0 grade point average of all courses in the program. Candidates who fail to attain a 3.0 (B) average in the first 15 units attempted will be disqualified from the program. The 15 units must be completed within two calendar years from the date of admission. The maximum time allowable for completion of the graduate program is five years.
B. Comprehensive examination or thesis as prescribed by the Department.
C. Completion of a minimum of 30 units of approved graduate work, exclusive of GBUS 697A. The specific courses of study will be developed with each student's educational and professional goals being considered and employing structural guidelines approved by the Department faculty. Each candidate's program will be developed in consultation with, and have approval of, the Department Graduate Advisor. The program must include the following:

1. REQUIRED COURSES (18 UNITS)

ACCT 600TX Federal Income Taxation of Individuals ....3
ACCT 610TX Tax Research and Communication..............3
ACCT 620TX Income Tax Concepts & Their Business Applications..................3
ACCT 630TX Income Taxes of Corporations and Shareholders I..........................3
ACCT 633TX Income Taxation of Partnerships..........3
ACCT 645TX Federal Tax Procedure..........................3

2. ELECTIVE COURSES (Four courses required) 12 UNITS

ACCT 625TX Estate and Gift Tax Seminar..............3
ACCT 631TX Income Taxes of Corporations Shareholders II..........................3
ACCT 635TX Income Taxation of Estates and Trusts.....3
ACCT 637TX Taxation of Foreign Transactions and Taxpayers ..................3

ACCT 661TX State and Local Taxes ........................3
ACCT 670TX Tax Clinic ........................................3
ACCT 675TX Advanced Federal Income Tax Seminar ....3
ACCT 680TX Advanced Research in Taxation..........3
BLAW 609 Law of Estates, Wills and Trusts.............3
GBUS 698A Graduate Thesis .........................3

2. A score of at least the 50th percentile on each section of the Graduate Management Admissions Test, or proven success in another accredited graduate program.
3. The Upper Division Writing Proficiency Exam is a prerequisite to classification. Completion of the following prerequisite coursework or equivalents is required for admission to classified graduate status. An applicant who possesses a bachelor’s degree in Business will be exempt from each prerequisite course that was completed by equivalent undergraduate coursework.

ACCT 600TX Federal Income Taxation of Individuals ....3
ACCT 610TX Tax Research and Communication..............3
ACCT 620TX Income Tax Concepts & Their Business Applications..................3
ACCT 630TX Income Taxes of Corporations and Shareholders I..........................3
ACCT 633TX Income Taxation of Partnerships..........3
ACCT 645TX Federal Tax Procedure..........................3

ACCT 640TX Tax Principles and Financial Accounting Pronouncements ....3
ACCT 661TX State and Local Taxes ........................3
ACCT 670TX Tax Clinic ........................................3
ACCT 675TX Advanced Federal Income Tax Seminar ....3
ACCT 680TX Advanced Research in Taxation..........3
BLAW 609 Law of Estates, Wills and Trusts.............3
GBUS 698A Graduate Thesis .........................3

3. REQUIRED FOR THOSE STUDENTS WHO DO NOT TAKE GBUS 698A, THESIS 0-3 UNITS

GBUS 697A Directed Comprehensive Studies........3

COURSE LIST - ACCOUNTING

LOWER DIVISION

200. FOUNDATIONS OF ACCOUNTING INFORMATION (4)
Prerequisites: Sophomore standing; completion of, or eligible to enroll in MATH 103. This is the first course in accounting and is required for all students intending to major in Business Administration or Accounting. Topics covered include an overview of the role that accounting plays in business and society, a summary of the accounting process, in-depth coverage of accounting measurement issues, and a culminating set of discussions on interpretation of, and decision-making with, financial and managerial accounting information.

221. INTRODUCTION TO THE ACCOUNTING PROCESS (1)
The application of basic accounting concepts and procedures in a computerized business environment. This course is offered on a credit/no credit basis and is highly beneficial if taken concurrently with ACCT 200.

224. COMPUTER PROBLEMS IN BUSINESS (1-3)
Prerequisites: ACCT 200 and consent of instructor. A series of assignments in business to provide students with the opportunity to increase their knowledge of the use of the computer in business. This course is offered CR/NC only.

UPPER DIVISION

320. COST ANALYSIS FOR MANAGEMENT DECISIONS (3)
Prerequisites: ACCT 200, BUS 205, and MSCI 291. This course is designed for students who are majoring in Business Administration or Accountancy. It focuses on the role of an accountant as part of a management team. Therefore, it emphasizes how to use (not generate) and how not to use cost accounting data for production, marketing and financing decisions. A written project will be required.

350. INTERMEDIATE FINANCIAL ACCOUNTING I (1)
Prerequisite: ACCT 200 and MATH 103, MATH 150A, or MATH 255A. The first course in the financial accounting sequence. Covers the theory of financial accounting as well as the accounting process with an emphasis on the accounting system and related technical skills. (Course requirement may be satisfied by achieving a passing score on the Technical Accounting Literacy Exam.)

351. INTERMEDIATE FINANCIAL ACCOUNTING II (3)
Prerequisites: A “C” or better in ACCT 350, or passing score on the Technical Accounting Literacy Exam. Corequisite: Concurrent enrollment in ACCT 351 COM is required. The second course in the financial accounting sequence. Covers the theory of financial accounting as well as the accounting process with an emphasis on revenue recognition, asset
valuation, cash implications of complex transactions, and accounting for long-term liabilities and investments.

351COM. COMMUNICATIONS FOR FINANCIAL ACCOUNTANTS (1)
Prerequisite: BUS 205. Corequisites: Concurrent enrollment in ACCT 351 is required. Application of written and oral communication skills. Learning to distinguish among writing purposes and audiences in preparing business documents (memoranda, letters and reports) and oral communication. Assignments use financial accounting issues covered in ACCT 351.

352. INTERMEDIATE FINANCIAL ACCOUNTING III (3)
Prerequisites: A “C” or better in ACCT 351 and ACCT 351COM. The third course in the financial accounting sequence. Covers the theory of financial accounting as well as the accounting process with an emphasis on stockholders’ equity, pensions, leases, changes in accounting principles, and in-depth examination of financial statements.

425. SENIOR SEMINAR IN ACCOUNTING (3)
Prerequisite: ACCT 352 or consent of instructor. Analysis of complex national and international accounting principles. Study of the development and effects of pronouncements of the Financial Accounting Standards Board, the American Institute of Certified Public Accountants and the Securities and Exchange Commission. Application of generally accepted accounting principles in complex situations, including basic concepts underlying financial statements of business enterprises. This course is to be conducted on a seminar basis requiring extensive student participation.

428. INTERNATIONAL ACCOUNTING (3)
Prerequisites: ACCT 200 and Senior Standing. This course is designed to provide international dimensions of accounting. It deals with accounting issues that are important to those directly and indirectly involved in accounting and financial control in firms with international operations.

430. MEASUREMENT AND MANAGEMENT OF COSTS (3)
Prerequisites: ACCT 351 and ACCT 320. This course is for accounting majors who have previously had an introduction to cost analysis and management accounting. It provides a technical foundation for designing cost measurement systems, and performing the strategically important function of cost management and control in an organization.

440. TAXATION OF BUSINESS ENTITIES (3)
Prerequisites: ACCT 351. Fundamentals of federal income taxation of business entities and individuals; topical coverage would include tax research, accounting periods and methods, gross income, deduction and losses, property transactions, corporations, partnerships, S Corps., and individuals.

441. ADVANCED STUDIES IN TAXATION (3)
Prerequisites: ACCT 440. An examination of additional, more complex topics in the areas of sole proprietorships, C corporations, S corporations, partnerships, and limited liability entities; an introduction to the areas of estate and gift taxation, fiduciary accounting, and employee compensation; ethics, tax research and tax planning to be integrated throughout the course.

450. ADVANCED FINANCIAL ACCOUNTING (3)
Prerequisites: ACCT 352. Accounting applications for specialized areas: partnerships; business combinations; consolidated financial statements; foreign currency transactions and translation; governmental and not-for-profit organizations.

460. AUDITING PRINCIPLES (3)
Prerequisites: ACCT 352, MSCI 316, ACCT 480. (ACCT 480 may be taken concurrently.) This course emphasizes the auditor’s decision-making process. It focuses on audits of domestic and multi-national corporations for financial reporting purposes. The course covers topics such as attestation theory, theory of evidence, auditing standards, auditing reports, ethics, control structure and environment, risk assessment, sampling, analytical procedures, audit planning and documentation.

480. ACCOUNTING INFORMATION SYSTEMS (3)
Prerequisites: ACCT 351 and MIS 324. Information system principles relating to accounting activities, including designing, implementing, and evaluating accounting information systems. The importance of controls and error-detecting aspects of computerized accounting systems is stressed.

496 A-Z. EXPERIMENTAL COURSES - ACCOUNTING (3)
Course content to be determined. (See subtitles in appropriate schedule of classes.)

498. FIELD ASSIGNMENTS AND REPORTS - ACCOUNTING (1-6)
Individual study pertaining to present or future career. Student must obtain approved employment. Consultation with employer and instructor determines program. A maximum of twelve units may be earned by combining Field Assignments and Reports (ACCT 498) and Independent Study (ACCT 499). An Academic Internship course. CR/NC Only.

499. INDEPENDENT STUDY ACCOUNTING (1-3)
Prerequisites: Consent of department chair and consent of an instructor to act as sponsor. In order to do an Independent Study assignment in the College of Business Administration and Economics, a student must have at least a 3.0 overall grade point average, a 2.0 grade point average in all major courses, and a 2.0 grade point average in his option courses. A student who does not meet these grade point requirements will not receive credit for any ACCT 499. Admission is based on evidence of ability to pursue independent study in depth and on approval of a project submitted at the time of registration. Regular progress meetings and reports are required throughout the semester. Completion of the project is required before credit may be received. Enrollment in Independent Study is not allowed for the purpose of substitution for an existing course. A maximum of six units of Independent Study (ACCT 499) may be earned in the College of Business Administration. Further, a maximum of twelve units may be earned by combining Field Assignments and Reports (ACCT 498) and Independent Study (ACCT 499).
GRADUATE

501. MBA FINANCIAL ACCOUNTING (3)
Prerequisite: Admission to a College of Business graduate program or consent of instructor. The study of financial reporting principles, structure of the balance sheet, income statement and statement of cash flows. Measurement principles for assets; liabilities and stockholders’ equity; revenue and expenses. Covers management’s responsibility for full and fair disclosure of financial information.

620A. ACCOUNTING THEORY SEMINAR I (3)
Prerequisites: ACCT 501. This course is an intermediate level presentation of the concepts and standards underlying the measurement and reporting of income, assets, and equities - both domestic and worldwide.

620B. ACCOUNTING THEORY SEMINAR II (3)
Prerequisite: ACCT 620A. To obtain a true comprehension of the accounting field is to inquire into its nature, to deal with its substance rather than its form, to focus upon essential concepts rather than upon their application. This course is concerned with an examination of both theories of accounting (descriptive) and theories for accounting (normative). Emphasis is placed on asset valuation and income determination, with reference to international comparative theories and concepts in accounting.

623. INTERNATIONAL ACCOUNTING (3)
Prerequisites: ACCT 352 or consent of instructor. This course is concerned with an examination of the environmental factors affecting accounting concepts and standards. Differences in the cultural, social, political, legal and economic conditions as they affect accounting concepts and standards.

624. ADVANCED AUDITING SEMINAR (3)
Prerequisites: 18 units of accounting including ACCT 460. Continuation of basic auditing; study of more complex matters affecting the audit; heavy emphasis on audit reports and current developments in the field of auditing.

626. MANAGERIAL COST ACCOUNTING SEMINAR (3)
Prerequisite: GBUS 502. This course is an intermediate level presentation of management accounting concepts and standards underlying the measurement, communication and interpretation of relevant information needed by management for decision making.

629. SEMINAR IN AUDITING COMPUTER-BASED ACCOUNTING INFORMATION (3)
Prerequisites: ACCT 460, and MIS 410 or MIS 420. Advanced study of the principles and techniques applied to audit computer-based accounting information and statistical sampling in auditing.

699. INDEPENDENT STUDY - ACCOUNTING (3)
Prerequisites: Permission of graduate advisor and department chair. No more than six units of Independent Study may be taken in any one department, and no more than six units may be taken in the College of Business without prior approval of the Dean. Only those graduate students who have a current 3.0 grade point average may register in a 600-level independent study course. Note: See Graduate Business Interdepartmental Courses for GBUS 695A, GBUS 696A, GBUS 697A, and GBUS 698A.

600TX. FEDERAL INCOME TAXATION OF INDIVIDUALS (3)
Prerequisites: ACCT 501 and BLAW 508. Examines the basics of federal income taxation with emphasis on statutory materials; special emphasis on problems of individual tax-payers and specific rules regarding gross income, adjusted gross income, taxable income, deductions, exemptions and credits.

610TX. TAX RESEARCH AND COMMUNICATION (3)
Prerequisite or co-requisite: ACCT 600TX. ACCT 600TX may be taken concurrently. The study of the sources of federal tax law; analysis of tax problems and methods of research; the communication of the results of research for purposes of tax planning, compliance and controversy.

620TX. INCOME TAX CONCEPTS AND THEIR BUSINESS APPLICATIONS (3)
Prerequisites: ACCT 600TX and 610TX. ACCT 610TX may be taken concurrently. Basic concepts underlying tax law that affect business and investment management; the choice of tax alternatives in business organization, policy, management, and compliance with government directives.

625TX. ESTATE AND GIFT TAX SEMINAR (3)
Prerequisites: ACCT 600TX and 610TX, or consent of instructor. ACCT 610TX may be taken concurrently. The study of Federal and California estate and gift tax problems. An analysis in depth through readings, problems and research.

630TX. INCOME TAXATION OF CORPORATIONS AND SHAREHOLDERS I (3)
Prerequisites: ACCT 600TX and 610TX. ACCT 610TX may be taken concurrently. Income tax principles relating to the organization, capital structure and operation of a corporation and the tax effects of corporate distributions, stock redemptions and liquidations on shareholders.

631TX. INCOME TAXES OF CORPORATIONS AND SHAREHOLDERS II (3)
Prerequisites: ACCT 600TX and 610TX. ACCT 610TX may be taken concurrently. Taxation of the foreign income of U.S. citizens and corporations; taxation of foreign persons and corporations on their income from U.S. sources; tax considerations in organizing foreign business operations.

633TX. INCOME TAXATION OF PARTNERSHIPS (3)
Prerequisites: ACCT 600TX and 610TX. ACCT 610TX may be taken concurrently. Taxation of the foreign income of U.S. citizens and corporations; taxation of foreign persons and corporations on their income from U.S. sources; tax considerations in organizing foreign business operations.

634TX. TAXATION OF FOREIGN TRANSACTIONS AND TAXPAYERS (3)
Prerequisites: ACCT 600TX and 610TX. ACCT 610TX may be taken concurrently. Taxation of the foreign income of U.S. citizens and corporations; taxation of foreign persons and corporations on their income from U.S. sources; tax considerations in organizing foreign business operations.

635TX. INCOME TAXATION OF ESTATES AND TRUSTS (3)
Prerequisites: ACCT 600TX and 610TX. ACCT 610TX may be taken concurrently. Income tax principles involved in the operation of estates and trusts, including special types of trust such as grantor and employee trusts; the taxation of descendants, grantors, and beneficiaries.

637TX. TAXATION OF FOREIGN TRANSACTIONS AND TAXPAYERS (3)
Prerequisites: ACCT 600TX and 610TX. ACCT 610TX may be taken concurrently. Comparative principles of tax and financial accounting as they relate to individuals, corporations, partnerships, estates and trusts; the allocation of income tax expense for financial statement purposes.
645TX. FEDERAL TAX PROCEDURE (3)
Prerequisites: ACCT 600TX and 610TX. ACCT 610TX may be taken concurrently. Administrative and judicial procedures for settling tax controversies, rules governing tax collection, criminal prosecution, and rights of taxpayers.

661TX. STATE AND LOCAL TAXES (3)
Prerequisites: ACCT 600TX and 610TX. ACCT 610TX may be taken concurrently. The structure of state and local taxes, principles governing income, sales, property and other taxes levied by state and local governments; the inter-relationship of state, local and federal taxes.

670TX. TAX CLINIC (3)
Students enrolled in the Tax Clinic provide a variety of services, including representing taxpayers before the Internal Revenue Service and other taxing agencies and appearing as tax experts on behalf of taxpayers in negotiation of settlements. Tax Clinic students handle audits from the initial meeting with the taxing authority through the appeals process and preparation of petitions to the Tax Court, if necessary. Assisting with collection matters for various agencies, interpreting the technical aspects of assessments and aiding in setting up payment plans are additional services Tax Clinic students can provide.

675TX. ADVANCED FEDERAL INCOME TAX SEMINAR (3)
Prerequisites: Completion of 12 units of 600-level taxation courses or consent of instructor. The course will treat and analyze in depth complicated and advanced federal income tax problems by emphasizing individual and team student research.

680TX. ADVANCED RESEARCH IN TAXATION (3)
Prerequisites: Completion of at least 18 units of 600-level taxation courses. Intensive original and independent research relating to a topic selected by the student from any area of taxation; selection of topic and research is subject to individual faculty review and supervision.

UPPER DIVISION
MIS 324. MANAGEMENT INFORMATION SYSTEMS (3)
Prerequisites: ACCT 200 and Business Computer Literacy. A survey of the components of information systems, types of information systems and strategies for information systems analysis and design, implementation and management. A focus on management considerations of information technology, including microcomputers, in the business environment. Students will prepare projects involving hands-on learning of simple decision support, data base, and transaction processing systems.

MIS 410. ACCOUNTING INFORMATION SYSTEMS (3)
Prerequisite: MIS 324. Application of systems analysis and design techniques specifically to computerized accounting information systems (AIS). Development of appropriate controls for modern, integrated and “paper-less” systems. Introduction to a pre-packaged accounting information system.

MIS 420. SYSTEMS ANALYSIS AND DESIGN (3)
Prerequisites: COMP 101, COMP 105COB and MIS 324; COMP 105COB may be taken concurrently. The analysis and design of computer-based information systems and major computer application projects. The systems development life cycle is studied. The tools and techniques of systems studies, problem definition, feasibility study, system design, and implementation. Case studies and computer-aided analysis and design tools, such as Excelerator.

MIS 430. DATA BASE MANAGEMENT SYSTEMS (3)
Prerequisite: MIS 420. MIS 420 may be taken concurrently. The design and implementation of computerized data bases. Provides background for the selection and use of data base management systems. Topics include types of available systems, functions of data base administration, conceptual data base design, data independence, integrity, privacy, and query. The student will design and implement a data base utilizing a commercial data base management system.
MIS 440. BUSINESS DATA COMMUNICATIONS (3)
Prerequisite: MIS 420. An introduction to the concepts and technology of on-line and network-based systems for business data communications. A focus on management considerations, requirement analysis, and capacity planning. Students will prepare projects involving the development and management of network systems using the College computer lab.

MIS 450. BUSINESS EXPERT SYSTEMS (3)
Prerequisite: MIS 420. An introduction to the uses of expert systems and the basic concepts underlying their design and construction. An overview of the issues involved in the development and implementation of business expert systems.

MIS 470. SYSTEMS DEVELOPMENT PROJECT (3)
Prerequisite: MIS 430 and senior standing. Application of computer programming and systems development concepts, principles and practices to a real world comprehensive systems development project. Student teams will use a local/regional firm as a site to analyze, design, document and implement realistic systems of moderate complexity, using appropriate project management methods (scheduling and control) in the solution of a real problem.

MIS 490. MANAGEMENT INFORMATION SYSTEMS POLICY AND MANAGEMENT (3)
Prerequisites: MIS 430 and senior standing. An examination of the strategic impact of information technology on the contemporary business environment. Management of the information resources in the modern business environment, with emphasis on planning, organizing and controlling the services provided by the Information Systems function for the users. Case studies.

MIS 497A-Z. SELECTED TOPICS IN MIS (1-4)
Prerequisite: Consent of instructor. Innovative course of study. Topics to be specified in Class Schedule. Different topics may be taken for credit.

MIS 499. INDEPENDENT STUDY IN MIS (1-4)
Prerequisites: Consent of instructor and approval of Department Chair. For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units.

MIS 628. COMPUTER-BASED MANAGEMENT INFORMATION SYSTEMS (3)
Prerequisites: ACCT 501 or one year of undergraduate accounting. An introduction to computer based management information systems at a fairly sophisticated level. Emphasis will be on the understanding of computer concepts, computer applications in an organizational environment, and the analysis and design of information systems.

MIS 655. INFORMATION SYSTEMS: THEORY AND PRACTICE SEMINAR (3)
Prerequisites: MIS 628. Advanced study of Computer Based Management Information Systems. Case studies of current computer applications in various businesses will be assigned to students as research projects.

MIS 656. INFORMATION SYSTEMS: SYSTEMS DESIGN SEMINAR I (3)
Prerequisite: MIS 655. Define requirements of computer-based Management Information Systems on Micro and Mini Computers. Students will be assigned advanced system design research projects.

MIS 657. INFORMATION SYSTEMS: SYSTEMS DESIGN SEMINAR II (3)
Prerequisite: MIS 655. Define requirements of computer-based Management Information Systems on time-sharing systems and large computers. Students will be assigned advanced systems design research projects.
DEPARTMENT OF BUSINESS LAW

COLLEGE OF BUSINESS ADMINISTRATION & ECONOMICS

Department Office: Business Building 3121
Phone: (818) 677-2905
Fax: (818) 677-4903
Web: http://www.csun.edu/~busecon
Administrative Coordinator: Dorothy Moulton


All faculty are attorneys who are available to advise and counsel students considering law school. Information regarding law school and legal careers is available on our website.

EMERITUS: George Baechtold, Henry B. Niles.

DEGREE OFFERED: The Department of Business Law offers curricula leading to a Bachelor of Science Degree in Business Administration with an option in Business Law.

ACADEMIC ADVISEMENT: All department faculty will be available during their scheduled office hours to advise students requiring advisement during the semester. Assigned department faculty will be available during registration periods. The department faculty are also available to advise and counsel students who are interested in preparing for law school.

THE MAJOR: In cooperation with other departments in the College of Business Administration and Economics, the Business Law Department offers a course of study leading to a Bachelor of Science Degree in Business Administration with an option in Business Law.

The Bachelor of Science Degree in Business Administration—Business Law prepares students to analyze complex problems, think critically and communicate effectively while teaching the legal principles pertinent to making business decisions.

CAREERS: The Business Law option is valuable preparation for careers in governmentally-regulated industries, for example banking, insurance, securities, and real estate. It is also designed for careers in risk management, contract administration, public affairs, finance, management, legal and judicial support services, and employment relations. It is focused on the legal applications of business decisions, and so is useful in a variety of careers.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION

LOWER DIVISION REQUIRED COURSES (19-28 UNITS)

ACCT 200 Foundations of Accounting Information........................4
BLAW 280 Business Law I..................................................3
ECON 200 Principles of Economics....................................3
MSCI 291 Statistical Methods in Business and Economics.............3
BUS 205 Analysis of Communications for Business.....................3

MATH PROFICIENCY REQUIREMENT (3-5 UNITS)

Completion with a “C” or better in (a) MATH 103 or (b) MATH 150A or (c) MATH 255A or (d) transfer equivalent.

WRITING SKILLS REQUIREMENT (0-3 UNITS)

Completion with a “C” or better in (a) ENGL 155 or (b) PAS 155 or (c) CHS 155 or (d) transfer equivalent.

BUSINESS COMPUTER LITERACY REQUIREMENT (0-4 UNITS)

A passing score in the Business Computer Literacy Exam (BCLE) or completion with a “C” or better in (a) COMP 100 and Credit (CR) for MIS 226L or (b) Credit (CR) for MIS 225 A, B, C, and D or (c) transfer equivalent. Information about the BCLE is available in the Accounting Department Office.

Note: The previously listed courses are prerequisite to the following upper division core requirements and should be completed before enrolling in upper division courses.

UPPER DIVISION BUSINESS REQUIRED COURSES (35 UNITS)

Check course descriptions for prerequisite courses, which must be completed prior to enrolling in the course.

ACCT 320 Cost Analysis for Management Decisions..................3
ECON 200 Principles of Economics.................................3
ECON 310 Price Theory and Application............................3
ECON 311 Money, Income, & International Economics...........3
BLAW 308 Business Law II.................................................3
BUS 300 Introduction to Organizations.........................0.5
BUS 400 Analysis of Organizations...........................0.5
FIN 303 Financial Management........................................3
MGT 360 Management & Organizational Behavior................3
MGT 497 Strategic Management Seminar..............................3
MIS 324 Management Information Systems..........................3
MKT 304 Introduction to Marketing Management..................3
MSCI 306M Manufacturing Operations Management............3
MSCI 306S Operations Management of Services.............3
MSCI 316 Managerial Decision Support Models and Methods ........3

UPPER DIVISION REQUIRED COURSES (15 UNITS)

In addition to the lower division and upper division core courses for the B.S. in Business Administration, each student must select 15 units from upper division courses offered by the Department of Business Law. Either ECON 365 or ECON 411 may be taken for 3 of these units. Courses from other departments can be substituted for 6 of these units with approval of the Department Chair.

GENERAL EDUCATION (52 UNITS)

Three units of the mathematics requirement and 3 units of the English requirement satisfy general education sections A1 and A3. BLAW 280 satisfies 3 units of section E requirements and COMP 100, if used as part of the Business Computer Literacy requirement, overlaps and satisfies 3 units of section E requirements. In addition, ECON 310 and ECON 311 satisfy 6 units of section D course requirements and, if taken when junior status is achieved, satisfy 6 units of upper division general education course requirements.

TITLE 5 (6 UNITS)

(US History and State and Local Government)

ADDITIONAL UNITS (10 TO 13 UNITS)

These are unrestricted elective units

TOTAL UNITS REQUIRED FOR THE DEGREE: 128
108. THE CITIZEN AND CIVIL LAW (3)
Not open to Business Administration Majors. This course is designed to introduce the student to aspects of the legal environment such as: wills and inheritance, torts, contracts, landlord-tenant and other real estate problems, dissolution of marriage and other family problems, business organizations, checks and promissory notes, and consumer credit. (Available for General Education, Applied Arts and Sciences.)

200. BUSINESS LAW I (3)

308. BUSINESS LAW II (3)

381. REAL ESTATE LAW (3)
Prerequisites: BLAW 280 and 308*. Passing score on the Upper Division Writing Proficiency Exam (WPE). Legal and business aspects of real property acquisition and ownership. Discussion of California law affecting acquisition of titles, easements, leases and contracts, community property, joint tenancy, tenancy in common, trust deeds, mortgages, brokerage, and homesteads.

385. LABOR AND EMPLOYMENT LAW (3) SPRING ONLY.
Prerequisites: Business Law 280 and 308*. Passing score on the Upper Division Writing Proficiency Exam (WPE). The course examines the development of labor law in the United States from the early common law to the current legislation. Existing federal statutes regulating labor unions and labor relations will be studied in detail. These statutes are studied as they are applied and interpreted by the federal courts and by the National Labor Relations Board. In addition, this course examines topics in U.S. employment laws such as family leave, equal pay, wrongful discharge, employee defamation, employer-related immigration laws, privacy in the workplace, discrimination based on race, sex, national origin and religion, and other new developments.

391. WOMEN AND THE LAW (3)
Prerequisite: Completion of lower division writing requirement*. Passing score on the Upper Division Writing Proficiency Exam (WPE). An in-depth study of several areas of law affecting the past and current legal status of women. Included in the study are topics of employment, property rights, credit opportunity, education and health. The course analyzes state and federal statutes and case law. (Available for General Education, Comparative Cultural Studies.)

408. INSURANCE LAW (3)
Prerequisites: BLAW 280 and 308 or consent of instructor. Passing score on the Upper Division Writing Proficiency Exam (WPE). The legal, business, and social aspects of insurance law will be studied as they are reflected in the law related to the formation of the insurance contract, the coverage provided by various types of insurance, the administration and regulation of the claims process, and the effects of bad faith litigation on insurers.

428. INTERNATIONAL BUSINESS LAW (3)
Prerequisite: BLAW 280. Passing score on the Upper Division Writing Proficiency Exam (WPE). A study of the legal environment for international commercial transactions, including an analysis of major Western and non-Western legal traditions and the supranational law of the European Community, a detailed analysis of the negotiation, formation, enforcement, and financing of international sales contracts, an analysis of international trade regulation, analysis of methods of regulating global competition, and of the protection of business property rights in international transactions.

480. COMMERCIAL TRANSACTIONS LAW (3)
Prerequisites: BLAW 280 and 308. The study of those areas of law related to commercial business transactions including commercial paper, negotiable instruments, secured transactions, bankruptcy and the law of sales.

496A-Z. EXPERIMENTAL COURSES- BUSINESS LAW (3)
Passing score on the Upper Division Writing Proficiency Exam (WPE). Course content to be determined. (See subtitles in appropriate schedule of classes.)

498. FIELD ASSIGNMENTS & REPORTS - BUSINESS LAW (1-6)
Passing score on the Upper Division Writing Proficiency Exam (WPE). Individual study pertaining to present or future career. Student must have active, approved employment. Consultation with employer and instructor determines program. A maximum of twelve units may be earned by combining Field Assignments and Reports (BLAW 498), and Independent Study (BLAW 499). An Academic Internship course. CR/NC Only.

499. INDEPENDENT STUDY - BUSINESS LAW (1-3)
Prerequisites: Consent of department chair and consent of an instructor to act as sponsor. Passing score on the Upper Division Writing Proficiency Exam (WPE). In order to do an Independent Study assignment in the School of Business Administration and Economics, a student must have at least a 3.0 overall grade point average, a 2.0 grade point average in all major courses, and a 2.0 grade point average in his/her option courses. A student who does not meet these grade point requirements will not receive credit for any BLAW 499 that he/she may take. Admission is based on evidence of ability to pursue independent study in depth and on approval of a project submitted at the time of registration. Regular progress meetings and reports are required throughout the semester. Completion of the project is required before credit may be received. Enrollment in Independent Study is not allowed for the purpose of substitution for an existing course. A maximum of six units of Independent Study (BLAW 499) may be earned in the School of Business Administration. Further, a maximum of twelve units may be earned by combining Field Assignments and Reports (BLAW 498) and Independent Study (BLAW 499).

* Passing score on the Upper Division Writing Proficiency Exam (WPE).
GRADUATE

(Graduate courses are open only to selected classified and conditionally classified graduate students who have attained an acceptable score on the GMAT. To determine their eligibility for enrollment, students majoring in areas other than business must consult with the Director of Graduate Programs of the School of Business Administration and Economics.)

508. MBA LAW IN THE BUSINESS ENVIRONMENT (3)
Prerequisite: Graduate standing. (Students who have received credit for BLAW 308 are not eligible.) Analysis of the legal issues facing managers today. Included are the study of contract law, business enterprises, employment law, environmental law, and the regulation of business competition.

609. LAW OF ESTATES, WILLS AND TRUSTS (3)
Prerequisites: BLAW 508. A study of the laws regarding transfer of separate and community property at death, with emphasis on California law. Included are the topics of: Death without a will: laws of interstate succession, advancements, disclaimers; Substitutes for a will: avoiding probate, joint tenancy, gifts; Wills: execution, revocation, restrictions, lapsed gifts, ademption, abatements; Trusts: creation, types of trusts, creditors’ rights, duties and powers of trustees.

680. LAW IN THE BUSINESS ENVIRONMENT II (3)
Prerequisites: BLAW 308 or 508. Study of advanced topics of law as related to the business environment. Creditor-debtor relationship, environmental law, employment law, and the regulation of competition.

699. INDEPENDENT STUDY - BUSINESS LAW (3)
Prerequisites: Permission of graduate adviser and department chair. No more than six units of Independent Study may be taken in any one department, and no more than six units may be taken in the School of Business without prior approval of the Dean. Only those graduate students who have a current 3.0 grade point average may register in a 600-level independent study course.
**DEPARTMENT OF FINANCE, REAL ESTATE AND INSURANCE**

Chair: William P. Jennings

**COLLEGE OF BUSINESS ADMINISTRATION & ECONOMICS**

Department Office: Business Building 3125  
Phone: (818) 677-2459  
Web Page: http://www.csun.edu/~busecon  
Administrative Coordinator: Mary M. Neville


**EMERITUS:** Sol S. Buchalter, Mary Jean Scheuer, Herbert Spiro, Arthur Taitt, and James J. Williams.

**DEGREES OFFERED:** B.S. Degree in Business Administration. The Department offers curricula leading to a Bachelor of Science degree in Business Administration with options in (I) Finance and (II) Real Estate.

**ACADEMIC ADVISEMENT:** All department faculty will be available during their scheduled office hours to advise students requiring advisement during the semester. Designated faculty will be available during registration to help students.

**THE MAJOR:** The Department of Finance, Real Estate and Insurance, in conjunction with the other departments in the College of Business Administration and Economics, offers curricula leading to a Bachelor of Science Degree in Business Administration with an option in either Finance or Real Estate. The study of finance consists of three interrelated areas: (1) capital markets, which deals with securities markets and financial intermediaries; (2) investments, which concerns the decisions of individual and business investors; and (3) financial management, which focuses on the actual management of firms. The major in Finance emphasizes both theoretical and practical approaches to these areas. As part of the curriculum, the Department offers elective courses in futures and options, real estate, insurance, international finance, and in a special section of Finance 437, The Student Portfolio Management Class, where a small number of students manage a stock portfolio for the University Corporation. The Real Estate major provides an introductory survey of the field of real estate and specialized courses in real estate law, real estate appraisal, and real estate finance. Instructional emphasis is placed on both theoretical and practical aspects of the field and prepares students for a variety of real estate careers. Courses in finance offered by the Department supplement the four Real Estate major courses. A double major in Finance and Real Estate may also be taken.

**CAREERS:** The major in Finance helps prepare our graduates for a wide range of career opportunities in all industries and sectors of the economy. Among the finance career fields are financial services, financial budget analysis, investments, and insurance. The students graduating with a major in Finance receive among the highest average starting salaries of business graduates. Students completing the major in Real Estate will have most of the educational requirements for the California real estate broker’s license and the State real estate appraiser’s license. While the Real Estate major is designed for students with career interests in the various functional fields of real estate — brokerage, appraisal, finance, investment, development and asset management, as well as service areas such as escrow and title insurance, the skills with which students in the major will become familiar are applicable in virtually all business fields.

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION**

**LOWER DIVISION REQUIRED COURSES (19-25 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 200</td>
<td>4</td>
</tr>
<tr>
<td>BLAW 280</td>
<td>3</td>
</tr>
<tr>
<td>ECON 200</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 291</td>
<td>3</td>
</tr>
<tr>
<td>BUS 205</td>
<td>3</td>
</tr>
<tr>
<td>BLAW 381</td>
<td>3</td>
</tr>
</tbody>
</table>

A passing score in the Business Computer Literacy Exam or completion with a “C” or better in (a) COMP 100 and MIS 226L or (b) MIS 225 A, B, C, D or (c) transfer equivalent.

**MATH PROFICIENCY REQUIREMENT (3-5 UNITS)**

Completion with a “C” or better in (a) MATH 103 or (b) MATH 150A or (c) MATH 255A or (d) transfer equivalent.

**WRITING SKILLS REQUIREMENT (0 UNITS)**

Completion with a “C” or better in (a) ENGL 155 or (b) PAS 155 or (c) CHS 155 or (d) transfer equivalent.

Note: The previously listed courses are prerequisite to the following upper division core requirements and should be completed before enrolling in upper division courses.

**UPPER DIVISION BUSINESS REQUIRED COURSES (35 UNITS)**

Check course descriptions for prerequisite courses, which must be completed prior to enrolling in the course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 300</td>
<td>0.5</td>
</tr>
<tr>
<td>ACCT 320</td>
<td>3</td>
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<td>BLAW 308</td>
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<td>ECON 310</td>
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<tr>
<td>ECON 311</td>
<td>3</td>
</tr>
<tr>
<td>FIN 303</td>
<td>3</td>
</tr>
<tr>
<td>MGT 360</td>
<td>3</td>
</tr>
<tr>
<td>MIS 324</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 306M</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 306S</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 316</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 316L</td>
<td>4</td>
</tr>
<tr>
<td>MKT 304</td>
<td>3</td>
</tr>
<tr>
<td>BUS 400</td>
<td>0.5</td>
</tr>
<tr>
<td>MGT 497</td>
<td>3</td>
</tr>
</tbody>
</table>

**UPPER DIVISION REQUIRED COURSES (15 UNITS)**

In addition to the lower division and upper division courses for the B.S. in Business Administration, each student with an option in Finance or Real Estate will select one of the two programs below:

**MAJOR I - FINANCE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 432</td>
<td>3</td>
</tr>
<tr>
<td>FIN 435</td>
<td>3</td>
</tr>
<tr>
<td>FIN 437</td>
<td>3</td>
</tr>
</tbody>
</table>

**MAJOR II - REAL ESTATE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 338</td>
<td>3</td>
</tr>
<tr>
<td>FIN 339</td>
<td>3</td>
</tr>
<tr>
<td>FIN 381</td>
<td>3</td>
</tr>
</tbody>
</table>
In addition, each student must select 3 units of any upper division Finance course (Does not include FIN 302).

**GENERAL EDUCATION (52 UNITS)**

Three units of the mathematics requirement and 3 units of the English requirement satisfy general education sections A1 and A3. BLAW 280 satisfies 3 units of section E requirements and COMP 100, if used as part of the Business Computer Literacy requirement, overlaps and satisfies 3 units of section E requirements. In addition, ECON 310 and ECON 311 satisfy 6 units of section D course requirements and, if taken when junior status is achieved, satisfy 6 units of upper division general education course requirements.

**TITLE 5 (6 UNITS)**

U.S. History and State and Local Government

**ADDITIONAL UNITS (10-13 UNITS)**

These are unrestricted elective units.

**TOTAL UNITS REQUIRED FOR THE DEGREE IN BUSINESS ADMINISTRATION: 128**

**COURSE LIST FINANCE**

**UPPER DIVISION**

**302. PERSONAL FINANCE (3)**

Prerequisite: Completion of the lower-division writing requirement. Not open to business or economics majors. An examination of the concepts necessary for the rational allocation of personal resources. The emphasis is on the significant financial decisions facing each household during its life cycle. The role of financial institutions and governmental economic policy will be evaluated in the context of their potential impact on personal financial planning. (Available for General Education, Applied Arts and Sciences.)

**303. FINANCIAL MANAGEMENT (3)**

Prerequisites: ACCT 200, ECON 200, MSCI 291; MSCI 291 may be taken concurrently. An analysis of the financial decision making process of a firm from both internal and external points of view. Topics include valuation, working capital management, capital budgeting, financial forecasting, capital structure, and sources of capital and dividend policy in both a domestic and international context.

**336. PRINCIPLES OF INSURANCE (3)**

Insurance as an economic and business institution. A survey of fire, marine, casualty, and life insurance for those interested as potential customers, salesperson, or brokers.

**338. REAL ESTATE PRINCIPLES (3)**

Prerequisites: Lower Division Core and FIN 303. An introductory survey of the field of real estate. Areas covered include real estate law, appraisal, brokerage, finance, and investment.

**430. INTERNATIONAL FINANCIAL MANAGEMENT (3)**

Prerequisites: FIN 303, FIN 432. Passing score on the Upper Division Writing Proficiency Exam (WPE). An analysis of the international complexities of corporate financial management and investment strategies. Emphasis is placed on the nature of the close link between corporate financial management and developments in international financial institutions and international financial markets.

**431. RISK MANAGEMENT (3)**

Prerequisites: FIN 303, MSCI 291. Passing score on the Upper Division Writing Proficiency Exam (WPE). An analysis of the methods and procedures of dealing with risk in the business Firm, including the theoretical basis of insurance and self-insurance mechanisms. Consideration of the commercial insurance industry, its structure and regulation.

**432. INVESTMENT ANALYSIS AND MANAGEMENT (3)**

Prerequisite: FIN 303. Passing score on the Upper Division Writing Proficiency Exam (WPE). A survey of investments including corporate and government securities, real property and financial intermediaries. A survey of investment theory emphasizing security analysis, valuation and portfolio management.

**433. REAL ESTATE FINANCE (3)**

Prerequisite: FIN 338. Passing score on the Upper Division Writing Proficiency Exam (WPE). An analysis of the instruments, institutions, agencies, and operations involved in the financing of real estate.

**434. ADVANCED TOPICS IN RISK AND INSURANCE (3)**

Prerequisite: FIN 336 or FIN 431. Passing score on the Upper Division Writing Proficiency Exam (WPE). Selected issues in risk and insurance are analyzed by means of case studies, readings, research, and class discussion.

**435. PROBLEMS IN CORPORATE FINANCIAL POLICY (3)**

Prerequisite: FIN 303. Passing score on the Upper Division Writing Proficiency Exam (WPE). Advanced readings and case studies in current problems and trends in corporate financial policy formulation. Students will be required to analyze selected problems orally and in writing.

**436. FUTURES AND OPTIONS: THEORY AND STRATEGY (3)**

Prerequisite: FIN 432. Passing score on the Upper Division Writing Proficiency Exam (WPE). A study of the structure of futures and options. The analysis will emphasize the theoretical framework of options and futures pricing models, practical financial implications, and the mechanics of, and economic rational for, futures and options markets.

**437. ADVANCED TOPICS IN FINANCE (3)**

Prerequisite: FIN 432. Passing score on the Upper Division Writing Proficiency Exam (WPE). Selected issues in financial policy and investment strategy are analyzed by means of case studies, readings and class discussion.

**438. MANAGEMENT OF FINANCIAL INSTITUTIONS (3)**

Prerequisite: FIN 303. Passing score on the Upper Division Writing Proficiency Exam (WPE). An examination of the principles, practices, and procedures applicable to the operation and management of financial institutions. Includes analysis of the sources and uses of funds in the system, and the federal and state regulatory structure.

**439. REAL ESTATE VALUATION (3)**

Prerequisites: FIN 338 and Upper Division core with the exception of MGT 497. Passing score on the Upper Division Writing Proficiency Exam (WPE). Analysis of the various determinants of real estate value and the methods used in practice to estimate such value. Economic factors affecting real estate value are emphasized, and traditional valuation techniques are critically examined.

**496A-Z. EXPERIMENTAL COURSES FINANCE (3)**

Passing score on the Upper Division Writing Proficiency Exam (WPE). Course content to be determined. (See subtitles in appropriate schedule of classes.)

**498. FIELD ASSIGNMENTS AND REPORTS FINANCE (1-6)**

Passing score on the Upper Division Writing Proficiency Exam (WPE). Individual study pertaining to present or future career. Student must obtain approved employment.
Consultation with employer and instructor determines program. A maximum of twelve units may be earned by combining Field Assignments and Reports (FIN 498), and Independent Study (FIN 499). An Academic Internship course. CR/NC only.

499. INDEPENDENT STUDY (1-3)
Prerequisites: Consent of department chair and consent of an instructor to act as sponsor. Passing score on the Upper Division Writing Proficiency Exam (WPE). In order to do an Independent Study assignment in the College of Business Administration and Economics, a student must have at least a 3.0 overall grade point average, a 2.0 grade point average in all major courses, and a 2.0 grade point average in his option courses. A student who does not meet these grade point requirements will not receive credit for any FIN 499 that he/she may take.

Admission is based on evidence of ability to pursue independent study in depth and on approval of a project submitted at the time of registration. Regular progress meetings and reports are required throughout the semester. Completion of the project is required before credit may be received. Enrollment in Independent Study is not allowed for the purpose of substitution for an existing course. A maximum of six units of Independent Study (FIN 499) may be earned in the College of Business Administration.

Further, a maximum of twelve units may be earned by combining Field Assignments and Reports (FIN 498), and Independent Study (FIN 499).

GRADUATE
Graduate courses are open only to selected classified and conditionally classified graduate students who have attained an acceptable score on the GMAT. To determine their eligibility for enrollment, students majoring in areas other than business must consult with the Director of Graduate Programs of the College of Business Administration and Economics.

634. SEMINAR IN FINANCIAL INSTITUTIONS (3)
Prerequisite: GBUS 502. A seminar analyzing financial institutions with an emphasis upon the determination of prices and yields of financial assets and the economic effects of financial intermediation.

635. SEMINAR IN FINANCIAL THEORY AND POLICY (3)
Prerequisite: GBUS 502. Examination of the theory of Finance and its application to financial management of business enterprise.

636. SEMINAR IN INVESTMENT ANALYSIS (3)
Prerequisite: GBUS 502. Seminar in the fundamental and technical analysis of securities and capital markets. Applied financial analysis of firms and their securities; study of institutional forces in the security markets.

637. SEMINAR IN CORPORATE REAL ESTATE (3)
Prerequisite: GBUS 502. A Seminar analyzing the role of real estate in corporate decision making. Topics include real estate finance, site selection, real estate valuation, and the effect of real estate decisions on shareholder wealth.

639. SEMINAR IN FINANCIAL PROBLEMS (3)
Prerequisite: FIN 636. Selected topics in corporate finance are examined in the context of the managerial decision process. Emphasis is placed on the application of the theory of Finance to problems facing entrepreneurs, investors, and managers.

699. INDEPENDENT STUDY FINANCE (3)
Prerequisites: Permission of graduate adviser and department chair. No more than six units of Independent Study may be taken in any one department, and no more than six units may be taken in the College of Business without prior approval of the Dean. Only those graduate students who have a current 3.0 grade point average may register in a 600level independent study course.

Note: See Graduate Business Interdepartmental Courses for GBUS 694B, GBUS 695B, and GBUS 696B.
INTERNATIONAL BUSINESS OPTION
COLLEGE OF BUSINESS ADMINISTRATION AND ECONOMICS

Department Office: Business Building 3111
Phone: (818) 677-2466

FACULTY: William W. Roberts (Associate Dean)

DEGREE OFFERED: B.S. Degree in Business Administration with an option in International Business.

The international business option covers the fundamentals of business administration and economics with an international emphasis. As an integral part of the program students must demonstrate competency in a foreign language or pass the foreign language proficiency exam. Students are also required to earn at least 3 units in an independent study abroad or complete an internship abroad.

ACADEMIC ADVISEMENT: All faculty teaching international business option courses in the College of Business Administration and Economics are available during their regularly scheduled office hours to advise students. General advisement for the international business option occurs in the Office of the Associate Dean. With regards to advisement on internships, please contact the Director of Internships.

THE MAJOR: The International Business Option offered by the College of Business Administration and Economics is designed to prepare students for a variety of positions in the exciting and dynamic field of international business. In order to give students a balanced education in this field, they are required to be proficient in at least one foreign language, and to take a variety of elective courses in international business. In addition, they are required to complete an international internship abroad, OR undertake a study abroad program.

CAREERS: Upon graduation, there are many exciting opportunities for international business majors. Typically, entry-level positions will be in one or other functional area, such as international marketing or finance. Students should therefore have a strong grounding in one or more of the functional areas of business. The type of organizations that hire international business graduates range from the Federal Government (Department of Commerce), to large multinational corporations, to small local companies engaged in export. In addition, many service providers, such as banks, insurance companies, advertising agencies, and freight forwarders, offer their services internationally, and are thus looking for suitably qualified people. Apart from organizations in the US, there are many opportunities in overseas companies, should students wish to live and work abroad. In view of the increasing globalization of business, there is no doubt that the demand for suitably qualified people in this field will increase substantially.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION
OPTION: INTERNATIONAL BUSINESS

SPECIAL GRADE REQUIREMENTS: Transfer students should be aware that no grade lower than "C" will be accepted on transfer from another institution to satisfy Department or College of Business Administration and Economics requirements.

LOWER DIVISION REQUIRED COURSES (19-25 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 200</td>
<td>Foundations of Accounting Information</td>
<td>4</td>
</tr>
<tr>
<td>BLAW 280</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 291</td>
<td>Statistical Methods in Business &amp; Economics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 205</td>
<td>Analysis of Communications for Business</td>
<td>3</td>
</tr>
</tbody>
</table>

BUSINESS COMPUTER LITERACY REQUIREMENT (0-4 UNITS)

A passing score in the Business Computer Literacy Exam or completion with a "C" or better in (a) COMP 100 and MIS 226L or (b) MIS 225 A, B, C, D or (c) transfer equivalent. (0-4)

MATH PROFICIENCY REQUIREMENT (3-5 UNITS)

Completion with a "C" or better in (a) MATH 103 or (b) MATH 150A or (c) MATH 255A or (d) transfer equivalent.

WRITING SKILLS REQUIREMENT (0 UNITS)

Completion with a "C" or better in (a) ENGL 155 or (b) PAS 155 or (c) CHS 155 or (d) transfer equivalent.

Note: The previously listed courses are prerequisites to the following upper division core requirements and should be completed before enrolling in upper division courses.

UPPER DIVISION BUSINESS REQUIRED COURSES (35 UNITS)

Check course descriptions for prerequisite courses, which must be completed prior to enrolling in the course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 300</td>
<td>Introduction to Organizations</td>
<td>0.5</td>
</tr>
<tr>
<td>ACCT 320</td>
<td>Cost Analysis for Management Decisions</td>
<td>3</td>
</tr>
<tr>
<td>BLAW 308</td>
<td>Business Law II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 310</td>
<td>Price Theory and Application</td>
<td>3</td>
</tr>
<tr>
<td>ECON 311</td>
<td>Money, Income, and International Economics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 303</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 360</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MIS 324</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 306M</td>
<td>Manufacturing Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 306S</td>
<td>Operations Management of Services</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 316</td>
<td>Managerial Decision Support Models and Methods</td>
<td>4</td>
</tr>
<tr>
<td>MKT 304</td>
<td>Introduction to Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 400</td>
<td>Analysis of Organizations</td>
<td>0.5</td>
</tr>
<tr>
<td>MGT 497</td>
<td>Strategic Management Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

UPPER DIVISION REQUIRED COURSES (15 UNITS)

Each student with an Option in International Business will complete 12 units selected from the following list from at least three different departments:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 428</td>
<td>International Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BLAW 428</td>
<td>International Business Law</td>
<td>3</td>
</tr>
<tr>
<td>ECON 348</td>
<td>Economic History of Europe</td>
<td>3</td>
</tr>
<tr>
<td>ECON 406</td>
<td>International Trade</td>
<td>3</td>
</tr>
<tr>
<td>ECON 407</td>
<td>International Macroeconomics and Exchange Rates</td>
<td>3</td>
</tr>
<tr>
<td>ECON 460</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>FIN 430</td>
<td>International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 416</td>
<td>Global Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 480</td>
<td>International Business Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 445</td>
<td>Principles of International Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>
FOREIGN LANGUAGE REQUIREMENT (0-14 UNITS)
Students must complete the second college year of a foreign language. The student must earn a “C” or better in the final semester course in this sequence.

INDEPENDENT STUDY ABROAD OR INTERNATIONAL BUSINESS (3 UNITS)
Internship (IBUS 498 - 3 units) approved by the College of Business International Business advisor.

TOTAL UNITS REQUIRED FOR THE OPTION (24-40 UNITS)

GENERAL EDUCATION (52 UNITS)
Three units of the mathematics requirement and 3 units of the English requirement satisfy general education sections A1 and A3. BLAW 280 satisfies 3 units of section E requirements and COMP 100, if used as part of the Business Computer Literacy requirement, satisfies 3 units of section E requirements. Three units of foreign language courses may be used to satisfy 3 units of either section F2 or F3. In addition, ECON 310 and ECON 311 satisfy 6 units of section D course requirements and, if taken when junior status is achieved, satisfy 6 units of upper division general education course requirements.

TITLE 5 (6 UNITS)
U.S. History and State and Local Government

ADDITIONAL UNITS (3-13 UNITS)
These are unrestricted elective units.

TOTAL UNITS REQUIRED FOR THE DEGREE IN BUSINESS ADMINISTRATION: 128

COURSE LIST - INTERNATIONAL BUSINESS

IBUS 498. INTERNATIONAL BUSINESS INTERNSHIP (3)
Passing score on the Upper Division Writing Proficiency Exam (WPE). Independent study abroad or internship pertaining to international business. A paper or written report will be required to fulfill this requirement. The Independent Study may be satisfied in any foreign country, including Canada or Mexico. The Internship may be satisfied in any foreign country. Under exceptional circumstances the Internship may be satisfied through an International Business Internship in an organization operating in the United States. Alternative arrangements for satisfying this requirement may be made by the College Associate Dean. CR/NC only.
DEPARTMENT OF MANAGEMENT
Chair: Gerard L. Rossy

COLLEGE OF BUSINESS ADMINISTRATION AND ECONOMICS
Department Office: Business Building 3119
Phone: (818) 677-2457
Administrative Support Coordinator: Cindy Trigg

FACULTY: Jay Christensen, Naomi Berger Davidson, Kathy Durham, Daniel George, Alan M. Glassman, Philip C. Gorman, Robert W. Hanna, Richard Kernochan, Mingfang Li, Myrna P. Mandell, Rex C. Mitchell, Richard W. Moore, Gerard L Rossy (Chair), Shirley L. Teeter, Deone M. Zell.

DEGREES OFFERED: B.S. Degree in Business Administration.

FACULTY: In cooperation with other departments in the College of Business Administration, the Department of Management offers curricula leading to a Bachelor of Science Degree in Business Administration with an option in Management.

ACADEMIC ADVISEMENT: All department faculty will be available during their scheduled office hours to advise students. Department faculty will be available during registration periods for program advisement. The Department of Management supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Program Study Centers in foreign countries are equivalent to courses in the Department of Management and may be used to fulfill some of the requirements for degree options offered by the Department and/or certain general education requirements. Students should consult the International Programs Bulletin available in the Office of International and Exchange Programs, a departmental advisor, or the campus International Programs Advisor for more information.

THE MAJOR: In cooperation with other departments in the College of Business and Economics, the Department of Management offers curricula leading to a Bachelor of Science degree in Business Administration with an option in management. The Management Department also participates in the Business Minor, available to all university undergraduate students, and in the Master of Business Administration program.

The field of management encompasses all of the processes, skills, and techniques necessary to accomplish organizational goals with and through other people. These include such primary functions as planning, organizing, leading, staffing and controlling. The manager’s responsibility is to carry out these functions effectively and efficiently while balancing the needs of all his or her constituencies including customers, employees, owners, and other organizational members. For these reasons the role and responsibilities of managers are often complex and challenging, requiring a broad understanding of the organization’s internal and external environment.

All organizations, whether private or public, manufacturing or service, for profit or in the social sector, are increasingly in need of effective managers and group leaders at all levels. With the rise of professionalism and the decline of traditional hierarchical structures, the responsibilities for management and leadership are increasingly being shared by all organizational members. This need will only increase with the advances in technology that are progressively eliminating routine work and requiring each individual to add value to the organization of which they are a part, and to society as a whole.

The Management Major gives students an opportunity to explore how they can improve their own abilities to work with others and to build the skill and knowledge base needed to be effective managers and professionals.

CAREERS: The Management Major prepares students for responsible positions in a wide variety of fields and organizations. These include:
- Supervisory Management
- Human Resource Management
- Strategic Planning
- Project Management
- Retail Management
- Training and Development
- Management Consulting
- Team Management
- Administration

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION

OPTION: MANAGEMENT

SPECIAL GRADE REQUIREMENTS: Transfer students should be aware that no grade lower than “C” will be accepted on transfer from another institution to satisfy Department or College of Business Administration and Economics requirements.

LOWER DIVISION REQUIRED COURSES (16-25 UNITS)

- ACCT 200 Foundations of Accounting Information................................. 4
- BLAW 280 Business Law ......................................................... 3
- ECON 200 Principles of Economics............................................ 3
- MSCI 291 Statistical Methods in Business and Economics................................. 3
- BUS 205 Analysis of Communications for Business.......................... 3

BUSINESS COMPUTER LITERACY REQUIREMENT (0-4 UNITS)
A passing score in the Business Computer Literacy Exam or completion with a “C” or better in (a) COMP 100 and MIS 226 or (b) MIS 225 or (c) transfer equivalent.

MATH PROFICIENCY REQUIREMENT (0-5 UNITS)
A passing score on the Calculus Proficiency Exam or completion with a “C” or better in (a) MATH 103 or (b) MATH 150A or (c) MATH 255A or (d) transfer equivalent.

WRITING SKILLS REQUIREMENT (0 UNITS)
A passing score on the Writing Proficiency Exam or completion with a “C” or better in (a) ENGL 155 or (b) PAS 155 or (c) CHS 155 or (d) transfer equivalent.

UPPER DIVISION BUSINESS REQUIRED COURSES (35 UNITS)
Check course descriptions for prerequisite courses, which must be completed prior to enrolling in the course.

- BUS 300 Introduction to Organizations........................................ 0.5
- ACCT 320 Cost Analysis for Management Decisions...................... 3
- BLAW 308 Business Law II......................................................... 3
- ECON 310 Price Theory and Application...................................... 3
- ECON 311 Money, Income, and International Economics......................... 3
- FIN 303 Financial Management.................................................. 3
- MGT 360 Management & Organizational Behavior..................... 3
- MIS 324 Management Information Systems.............................. 3
- or
- MSCI 306M Manufacturing Operations Management...................... 3
- or
- MSCI 306S Operations Management of Services.......................... 3
**OPTIONAL PROGRAM CLUSTERS**

Each student must select any 9 units from the following:

- MGT 450 Organization Changes & Development
- MGT 452 Applied Behavioral Analysis
- MGT 454 Leadership, Power, & Politics
- MGT 456 Negotiation & Conflict Management
- MGT 458 Decision Making & Creativity
- MGT 460 Strategic Human Resource Management
- MGT 462 Private Management, Public Policy
- MGT 464 International Business Management
- MGT 466 Future Directions in Management
- MGT 496 Experimental Courses
- MGT 498 Field Assignments
- MGT 499 Independent Study
- BLAW 385 Labor Law

*A maximum of 6 units of MGT 499 can be used in this option.

**GENERAL EDUCATION (52 UNITS)**

Three units of the mathematics requirement and 3 units of the English requirement satisfy General Education sections A1 and A3. COMP 100, if used as part of the Business Computer Literacy requirement, satisfies 3 units of Section E requirements. In addition, ECON 310 and ECON 311 satisfy 6 units of section D course requirements and, if taken when junior status is achieved, satisfy 6 units of upper division General Education course requirements.

The Department of Management STRONGLY recommends the following General Education electives for its majors. Elements of these general education courses are integrated into the management curriculum:

- PHIL 200 -Critical Reasoning
- ENGL 300 -Contemporary Literature
- R S 205 -Contemporary Ethical Issues
- ANTH 152 -Culture and Human Behavior

Students are also ENCOURAGED to take the following:
- ENGL 305 - Intermediate Expository Writing

**ADDITIONAL UNITS (7-10 UNITS)**

These are unrestricted elective units.

**TOTAL UNITS REQUIRED FOR THE DEGREE IN BUSINESS ADMINISTRATION: 128**

**COURSE LIST-MANAGEMENT**

**UPPER DIVISION**

### 360. MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (3)

Prerequisite: Completion of lower division business core. This course is an introduction to the basic concepts in management and organizational behavior. The course applies these concepts to the management of people and resources toward the accomplishment of organizational goals. The emphasis will be on the organizational applications of behavioral science concepts, interpersonal skills, and team building.

### 370. MANAGEMENT SKILLS DEVELOPMENT (3)

Prerequisite: MGT 360 and junior standing. A presentation of major concepts of the behavioral sciences which apply to the management of organizations. The focus is on understanding factors and developing skills which affect the behavior and ultimately the performance of individuals and groups within organizations.

### 380. EMPLOYMENT PRACTICES (3)

Prerequisite: MGT 360. An analysis of the procedures involved in the Human Resource function in light of the legal and socio-demographic environments. Why and how employees are recruited and retained will be evaluated as will current issues and trends.

### 450. ORGANIZATION CHANGE AND DEVELOPMENT (3)

Prerequisites: MGT 360 and 370. Passing score on the Upper Division Writing Proficiency Exam (WPE). This seminar examines current practices in the application of behavioral science knowledge to organization change issues. The focus is on the dynamics as well as current diagnostic techniques and intervention strategies.

### 452. APPLIED BEHAVIORAL ANALYSIS (3)

Prerequisite: MGT 360. Math 103 “C” or better. Passing score on the Upper Division Writing Proficiency Exam (WPE). The primary objective of this course is to introduce students to a number of alternative methodologies for gathering and analyzing behavioral research data from an organizational setting. Students will develop the skills needed in analyzing and presenting such data for the sake of dealing with applied behavioral problems in organizations.

### 454. LEADERSHIP, POWER, AND POLITICS (3)

Prerequisite: MGT 360. Passing score on the Upper Division Writing Proficiency Exam (WPE). This course concentrates on the ability of individuals to lead others in important undertakings-the management of organizations, the management of large-scale change, the resolution of complex problems. The course focuses on behavioral
approaches to leadership, particularly attaining and exerting power and managing the political subsystem.

**456. NEGOTIATION & CONFLICT MANAGEMENT (3)**
Prerequisite: MGT 360. Passing score on the Upper Division Writing Proficiency Exam (WPE). The primary objective of this course is to introduce students to a number of theories and processes for negotiation and conflict management as it is practiced in a variety of settings. The course will also build the student's skills in using negotiation and conflict management techniques.

**458. DECISION MAKING AND CREATIVITY (3)**
Prerequisite: MGT 360. Passing score on the Upper Division Writing Proficiency Exam (WPE). Analysis and skill-building in creative decision-making, focused on managerial and organizational contexts. Decision-making is considered as a comprehensive process, encompassing identification and framing of issues/problems, evaluation of alternatives, choice, implementation, and learning from the experience. Attention is given to a variety of contemporary decision-making and creativity techniques, in addition to traditional and rational decision-making models.

**460. STRATEGIC HUMAN RESOURCE MANAGEMENT (3)**
Prerequisite: MGT 380. Passing score on the Upper Division Writing Proficiency Exam (WPE). An examination of the formulation and implementation of Human Resource policy at the strategic level. Emphasis is placed on how HR junctions integrate with the overall strategy of the firm to make the firm more competitive.

**462. PRIVATE MANAGEMENT, PUBLIC POLICY (3)**
Prerequisite: MGT 360. Passing score on the Upper Division Writing Proficiency Exam (WPE). The course looks at the relationship among business, government not-for-profits and society. The major issues covered include: ethical dilemmas for business; models of relationships among business, government and society; and the impact of the public policy process on business and vice-versa.

**464. INTERNATIONAL BUSINESS MANAGEMENT (3)**
Prerequisite: MGT 360. Passing score on the Upper Division Writing Proficiency Exam. This course studies various issues related to managing international businesses effectively. The purpose is to develop skills in identifying critical issues facing, analyzing key factors related to, and developing solutions for businesses that either compete or will compete in global business environments.

**466. FUTURE DIRECTIONS IN MANAGEMENT (3)**
Prerequisite: MGT 360. Passing score on the Upper Division Writing Proficiency Exam (WPE). This course will examine emerging concepts in organizational science, such as chaos theory, that can help students develop the conceptual and behavioral skills necessary to manage in the complex world of tomorrow. As such, this course will continually adapt and adjust to reflect the new developments in management and in fields that can influence the management process.

**496A-Z. EXPERIMENTAL COURSES - MANAGEMENT (3)**
Passing score on the Upper Division Writing Proficiency Exam (WPE). Course content to be determined. (See subtitles in appropriate schedule of classes.)

**497. STRATEGIC MANAGEMENT SEMINAR (3)**
Prerequisites: Senior standing and completion of all other upper-division business major core courses. Passing score on the Upper Division Writing Proficiency Exam. This capstone course integrates previous coursework and introduces concepts and approaches for analyzing, formulating, and implementing business interdependencies between the functional areas within organizations, and how these are impacted by external factors.

**498. FIELD ASSIGNMENTS & REPORTS - MANAGEMENT (1-6)**
Passing score on the Upper Division Writing Proficiency Exam (WPE). Individual study pertaining to present or future career. Student must obtain approved employment. Consultation with employer and instructor determines program. A maximum of twelve units may be earned by combining Field Assignments and Reports (MGT 498), and Independent Study (MGT 499). An Academic Internship course. CR/NC only.

**499. INDEPENDENT STUDY (1-3)**
Prerequisites: Consent of department chair and consent of an instructor to act as sponsor. Passing score on the Upper Division Writing Proficiency Exam (WPE). In order to do an Independent Study assignment in the College of Business Administration and Economics, a student must have at least a 3.0 overall grade point average, a 2.0 grade point average in all major courses, and a 2.0 grade point average in his/her option courses. A student who does not meet these grade point requirements will not receive credit for any MGT 499 that he/she may take.

Admission is based on evidence of ability to pursue independent study in depth and on approval of a project submitted at the time of registration. Regular progress meetings and reports are required throughout the semester. Completion of the project is required before credit may be received. Enrollment in Independent Study is not allowed for the purpose of substitution for an existing course. A maximum of six units of Independent Study (MGT 499) may be earned in the School of Business Administration. Further, a maximum of twelve units may be earned by combining Field Assignments and Reports (MGT 498), and Independent Study (MGT 499).

**GRADUATE**
(Graduate courses are open only to selected classified and conditionally classified graduate students who have attained an acceptable score on the GMAT. To determine their eligibility for enrollment, students majoring in areas other than business must consult with the Director of Graduate Programs of the College of Business Administration and Economics.)

**620. BEHAVIOR IN ORGANIZATIONS (3)**
Prerequisites: GBUS 600 (may be taken concurrently with MGT 620). Covers the behavioral issues facing organizations and their managers, the methods and systems for addressing them, and the interpersonal and analytical knowledge and skill needed to effectively apply these methods and systems. Focuses on practical experience, skill-building, and theory about motivation, leadership, interpersonal communication, group processes and team building, decision making, and job and organizational design.

**660. HUMAN RESOURCE STRATEGIES (3)**
Prerequisite: GBUS 600. An examination of the interaction between organizations and their political, social, economic, and technical environments. Issues of ethical and social responsibility will be examined.
661. ORGANIZATION THEORY AND DESIGN (3)
Prerequisite: GBUS 600. An innovative assessment of systems theory as a strategic approach to aligning an organization’s strategies, structure, technology, and human resource practices with its environment. Views the history of organization theory as a story that illustrates diverse and creative ways of analyzing organizations.

662. STRATEGIC PLANNING AND IMPLEMENTATION (3)
Prerequisite: GBUS 600. A pragmatic approach to strategy formulation and implementation from the vantage point of executive management. This course requires students to conduct a strategic analysis of a firm and its lines of business, emphasizing the importance of strategic management and strategic thinking as on-going processes.

663. GLOBAL STRATEGY (3)
Prerequisite: GBUS 600. This course explores the environmental challenges for global businesses, examining both the traditional and emergent global strategic responses of business to different market conditions. The emphasis is on contextual factors and the need for innovative strategies in an increasingly complex and changing environment in order to attain and/or maintain a competitive advantage.

664. CROSS-CULTURAL MANAGEMENT (3)
Prerequisite: GBUS 600. An examination of the impact of culture on managing within a global environment. This course develops an appreciation for one’s own culture, knowledge, awareness, and sensitivity to cross cultural differences. The course develops the tools needed to handle the wide variety of situations challenging to the multinational manager.

665. MANAGEMENT OF TECHNOLOGY & INNOVATION (3)
Prerequisite: GBUS 600. This course explores the emerging literature regarding the integration of strategy, technology, and innovation. This course stresses the strategic management of technological resources in order to gain a competitive advantage in the marketplace through timely innovation. There is extensive focus on the evolution of high-tech industries and the factors contributing to their success.

667. LEADERSHIP (3)
Prerequisite: GBUS 600. This course explores the evolution of leadership theory and the emergence of a new blueprint for contemporary leadership. There is an emphasis on self-assessment of students’ leadership styles and the challenges of managing the new workforce and new organizational forms.

668. SPECIAL TOPICS (1-3)
Prerequisite: GBUS 600. The exploration of a topic currently being debated by the management community or the study of management through alternative means (e.g., classical literature, film or the practice of management in a specific industry (e.g. film). Check with department for specific offering.

671. CHANGE MANAGEMENT (3)
Prerequisite: GBUS 600. This course develops a conceptual framework and the personal skills that form the foundation for effective change management in organizations, whether in the role of manager or consultant. There is extensive use of structured role-plays, cases, and analysis of incidents from students' current work experiences.

693. SEMINAR IN STRATEGIC MANAGEMENT (3)
Prerequisite: Last semester of course work for MBA students. An integrative seminar dealing with broad business policy problems via the case method. There will be definition and analysis of internal and external factors affecting the development of the objectives and policies of the firm. The course stresses the interrelationships of major functional areas and the pervasive adjustments that may result from changes in a specific policy. Students are expected to use their personal experience and apply the analytical tools obtained from specialized courses in the solution of organization-wide problems. Emphasis is placed on case study methodology.

699. INDEPENDENT STUDY - MANAGEMENT (3)
Prerequisites: Permission of graduate adviser and department chair. No more than six units of Independent Study may be taken in any one department, and no more than six units may be taken in the School of Business without prior approval of the Dean. Only those graduate students who have a current 3.0 grade point-average may register in a 600-level independent study course. Note: See Graduate Business Interdepartmental Courses for GBUS 694C, GBUS 695C, GBUS 696C, GBUS 697C, and GBUS 698C.
DEPARTMENT OF MANAGEMENT SCIENCE  
Chair: Albert J. Kinderman

COLLEGE OF BUSINESS ADMINISTRATION & ECONOMICS  
Department Office: Business Building 3125  
Phone: (818) 677-2470  
Web Page: http://www.csun.edu/~hfbus024/index.html  
Administrative Coordinator: Mary Neville

FACULTY:  
Paul Baum, Ali Behnezhad, Avi Dechter,  
Abe Feinberg, Richard E. Gunther, Gordon D. Johnson,  
Albert J. Kinderman (Chair), Kenneth Klassen,  
Arundhati Kumar, Shao-ju Lee, Abdel-Aziz Mohamed,  
Elzbieta Trybus, Thomas L. Wedel, Chi-Chuan Yao

EMERITUS FACULTY:  
John R. Miller, Ernest M. Scheuer,  
Richard Trueman, Fadil H. Zuwaylif

DEPARTMENT ADVISORY COUNCIL:  
William J. Bellows (The Boeing Company/Rocketdyne Propulsion),  
Ray W. Blinde (Continuous Improvement),  
Stephen L. Carman (TRW),  
Leon Curchack (Ernest & Young),  
Kevin Erlandson (Arthur Andersen & Company),  
Harvey Ganz (Project Management Institute),  
Edward Garnett (Ammen), Janice Kakazu (Teradyne),  
Ellen Kane (American Production and Inventory Control Society),  
Merle Kleven (Underwriters Laboratories, Incorporated),  
Forest E. Kovach (Boeing Defense & Space Group),  
Diane G. Kulisek (GULP!, Inc.),  
Carol Miller (Proaction Consulting),  
Al Mostacciuolo (Schlumberger Technologies),  
Kevin Skinner (Zebra Technologies Corp.),  
David Steinberg (Cimm’s Inc.)  
Paula Stern (Harman Electronics),  
Ed Stuckey (Nestle Distribution Company),  
Virginia Torres (Countrywide Home Loans)

DEGREES OFFERED:  
B.S. in Business Administration.  
The Department of Management Science offers curricula leading  
to a Bachelor of Science Degree in Business Administration  
with an option in Systems and Operations Management.

ACADEMIC ADVISEMENT:  
All department faculty will be available during their scheduled office hours to advise students  
during the semester as well as during registration periods.

THE MAJOR:  
In cooperation with other departments in the College of Business Administration and Economics,  
the Management Science Department offers a course of study leading to  
a Bachelor of Science Degree in Business Administration with a option in Systems and Operations Management.  
This option develops the skills required to manage the operations of business that produce goods or render services.

The program focuses on developing skills for problem-solving, critical thinking, communication and the use of constantly changing technology.  
These skills are needed to deal with a variety of decisions made by managers in manufacturing, service, and government organizations.  
These encompass strategic long-range decisions (such as product, service and process design, facility location and layout, and job design) as well as operational decisions (such as project management, operations planning and scheduling, quality assurance, purchasing and inventory).

CAREERS:  
The option in Systems and Operations Management prepares students for careers in a variety of industries such as aerospace, electronics, automotive, health care, airlines, transportation, process industries, machine manufacturing, insurance, banking, government, education, and recreation.

The range of positions includes quality management, project management, operations planning and scheduling, inventory and materials management, systems analysis and design, decision support systems and supply chain management.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION

LOWER DIVISION REQUIRED COURSES (19-25 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 300</td>
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</tr>
<tr>
<td>BLAW 308</td>
<td>3</td>
</tr>
<tr>
<td>ECON 200</td>
<td>3</td>
</tr>
<tr>
<td>MGT 497</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 291</td>
<td>4</td>
</tr>
</tbody>
</table>

MATH PROFICIENCY REQUIREMENT (0-5 UNITS)

Completion with a “C” or better in (a) MATH 103 or (b) MATH 150A or (c) MATH 255A or (d) transfer equivalent.

WRITING SKILLS REQUIREMENT (0 UNITS)

Check course descriptions for prerequisite courses, which must be completed prior to enrolling in upper division courses.

UPPER DIVISION BUSINESS REQUIRED COURSES (50 UNITS INCLUDING OPTION)

Check course descriptions for prerequisite courses, which must be completed prior to enrolling in the course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 300</td>
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</tr>
<tr>
<td>ACCT 320</td>
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</tr>
<tr>
<td>BLAW 308</td>
<td>3</td>
</tr>
<tr>
<td>ECON 310</td>
<td>3</td>
</tr>
<tr>
<td>ECON 311</td>
<td>3</td>
</tr>
<tr>
<td>FIN 303</td>
<td>3</td>
</tr>
<tr>
<td>MGT 360</td>
<td>3</td>
</tr>
<tr>
<td>MIS 324</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 306M</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 306</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 316</td>
<td>4</td>
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<tr>
<td>MKT 304</td>
<td>3</td>
</tr>
<tr>
<td>BUS 400</td>
<td>3</td>
</tr>
<tr>
<td>MGT 497</td>
<td>3</td>
</tr>
</tbody>
</table>

UPPER DIVISION REQUIRED COURSES

In addition to the lower division and upper division core courses for the B.S. in Business Administration, each student with an option in Systems and Operations Management must complete 15 units in the following pattern:

REQUIRED COURSES (6 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 485</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 487</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES (9 UNITS)

Each student is free to choose courses in any combination from the three concentrations. However, to complete one of the recommended concentrations, the nine units must be taken exclusively from that concentration, as indicated below:
## CONCENTRATION 1: MANAGEMENT SYSTEMS ANALYSIS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 489</td>
<td>Manufacturing Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>Complete 6 units from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSCI 409</td>
<td>Computer-Based Models for Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 465</td>
<td>Computer Simulation of Operations Systems</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 469</td>
<td>Advanced Statistical Methods in Business and Economics</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 490</td>
<td>Seminar in Systems and Operations Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**COMP 101 Introduction to Algorithms**
**COMP 105 Computer Programming**

## GENERAL EDUCATION (52 UNITS)

Three units of the mathematics requirement and 3 units of the English requirement satisfy general education sections A1 and A3. BLAW 280 satisfies 3 units of section E requirements and COMP 100, if used as part of the Business Computer Literacy requirement, overlaps and satisfies 3 units of section E requirements. In addition, ECON 310 and ECON 311 satisfy 6 units of section D course requirements and, if taken when junior status is achieved, satisfy 6 units of upper division general education course requirements.

## TITLE 5 (6 UNITS)

U.S. History and State and Local Government

## ADDITIONAL UNITS (10-13 UNITS)

These are unrestricted elective units.

## TOTAL UNITS REQUIRED FOR THE DEGREE IN BUSINESS ADMINISTRATION: 128

### COURSE LIST MANAGEMENT SCIENCE

#### LOWER DIVISION

**291. STATISTICAL METHODS IN BUSINESS & ECONOMICS (3)**
Prerequisite: Math 103 or 150A or 255A or equivalent course with a grade of C or better; qualifying score on EPT, or exemptions or satisfactory completion of appropriate developmental courses. Corequisite: Passing score on Business Computer Literacy Examination or concurrent registration in: (a) COMP 100 and MIS 226; or (b) MIS 225. The course covers the basic elements of statistics for students of business and economics. Topics to be covered include: descriptive statistics, elements of probability, probability distributions, sampling distributions, one and two population inference including estimation and hypothesis testing, and simple linear regression. Calculus will be used to explain and illustrate these topics where appropriate. Applications of these topics in business and economics are emphasized. The course requires regular writing assignments in which students are required to explain the results of their statistical computations. Students will also use standard statistical packages on personal computers.

#### UPPER DIVISION

**300. PROBLEM SOLVING AND STATISTICAL TOOLS FOR MANAGERS**
Prerequisite: Completion of G. E. Math requirement (Not open to Accounting, Business Administration, or Economics majors). This course is intended to give Business Minors an overview of statistics and basic problem-solving tools used in business. These tools include computer basics, modeling of business problems, and data analysis. The emphasis will be on the use of spreadsheets in statistical analysis and in solving business problems. This course may not be substituted for MSCI 291.

**306M. MANUFACTURING OPERATIONS MANAGEMENT (3)**
Prerequisite: MSCI 291 or MSCI 391 or passing score on Statistics Competency Exam. Not open to students who have passed MSCI 306S. Approaches useful in making decisions related to manufacturing operations. Topics include manufacturing productivity, total quality management, computer-integrated manufacturing, demand forecasting, manufacturing systems design, production and capacity planning, inventory control, Just-in-Time (JIT) production, material requirements planning (MRP). Course includes a comparison of U.S. production methods with those used internationally.

**306S. OPERATIONS MANAGEMENT OF SERVICES (3)**
Prerequisite: MSCI 291 or MSCI 391 or passing score on Statistics Competency Exam. Not open to students who have passed MSCI 306M. Approaches useful in making managerial decisions related to the operations function of service organizations. Topics include work flow, work force, service productivity and quality, facility location and capacity, technology.

**316. MANAGERIAL DECISION SUPPORT MODELS AND METHODS (4)**
Prerequisite: MSCI 291 or MSCI 391 or passing score on Statistics Competency Exam. The course covers methods and models used to support managers in their decision making efforts. Topics to be covered include: the modeling process; advanced statistical methods; decision models; optimization; simulation; waiting lines; heuristics; decision support systems; project management; and implementation. Applications of these topics in service organizations and small businesses are provided along with applications for production organizations and large businesses. A key course requirement is an individual project involving the application of one or more of the course topics to a current business problem.

**390A. MBA MATHEMATICAL ANALYSIS (2)**
Open only to graduate students but carries no credit toward MBA. Required of all MBA applicants who do not pass the MBA Mathematics Proficiency Examination. Survey of basic mathematical models used to analyze business problems. Topics include graphs, systems of linear equations, differential and integral calculus.

**390B. MBA STATISTICAL ANALYSIS (2)**
Prerequisite: MSCI 390A or equivalent course, or passing score on MBA Mathematics Proficiency Examination.
464. MANUFACTURING RESOURCE PLANNING (3)
Prerequisite: MSCI 306M or MSCI 306S or MSE 304. Passing score on the Upper Division Writing Proficiency Exam (WPE). Planning and control systems for the management of short and intermediate range decisions encountered in production and operations. Topics include manufacturing resource planning (MRP II) as well as forecasting, production planning and scheduling, inventory management, capacity planning, just-in-time (JIT), and other current topics. The course will include an in-depth case study using integrated manufacturing planning and control software. Same as MSE 464.

465. COMPUTER SIMULATION OF OPERATIONAL SYSTEMS (3)
Prerequisites: MSCI 306M or MSCI 306S, and MSCI 316. Passing score on the Upper Division Writing Proficiency Exam (WPE). Covers the techniques of developing and using simulation models as an experimental method in design, planning, and control of operational systems. Simulation models of operational systems are constructed on a digital computer, and used to evaluate alternative design configurations, decision rules, and control techniques.

466. PROJECT MANAGEMENT (3)
Prerequisite: MSCI 316. Passing score on the Upper Division Writing Proficiency Exam (WPE). Introduction to the operations management of small, intermediate, and large projects. The course surveys project organization, staffing, planning and scheduling (PERT/CPM), control, budgeting, and quality. The project environments, including international issues, are explored. Various project management software packages are utilized.

467. QUALITY MANAGEMENT AND CONTROL (3)
Prerequisite: MSCI 306M or MSCI 306S or MSE 304. Passing score on the Upper Division Writing Proficiency Exam (WPE). Application of total quality control for improvement of products and services, including both statistical techniques and managerial approaches. Control charts, quality costs, responsibility for quality, quality at the source, ethical issues, ISO 9000. International differences in philosophy of quality.

468. MANAGING FOR SERVICE EXCELLENCE (3)
Prerequisite: MSCI 306S or MSCI 306M. Passing score on the Upper Division Writing Proficiency Exam (WPE). Techniques learned will benefit service managers and entrepreneurs by improving skills in managing efficiency and quality. Students will learn concepts and tools useful for service management. Topics include service assessment, improvement and innovation, yield management, service technologies (including management of Internet businesses), quality and productivity, and new service development. The course involves case studies as well as software applications.

469. ADVANCED STATISTICAL METHODS IN BUSINESS AND ECONOMICS (3)
Prerequisite: MSCI 291 or MSCI 391 or MATH 440A. Passing score on the Upper Division Writing Proficiency Exam (WPE). Sampling theory, tests of significance (chi-square, analysis of variance, etc.), multiple regression and correlation, time series analysis. Application to business problems. Instruction supplemented by the use of statistical computer packages.

485. DECISION SUPPORT SYSTEMS (3)
Prerequisites: MSCI 316, MIS 324, and MSCI 306M or MSCI 306S. Passing score on the Upper Division Writing Proficiency Exam (WPE). Concepts, development and application of Decision Support Systems (DSS) and related management support systems (Executive Information Systems).
489. MANUFACTURING MANAGEMENT SYSTEMS (3)
Prerequisites: MSCI 306M or MSCI 306S, and MIS 324.
Passing score on the Upper Division Writing Proficiency Exam (WPE).
Fundamentals of the systems development process for the design and implementation of manufacturing systems. Topics covered include information systems for production design, production planning, inventory control, and shop floor control. Interaction with computer aided design and computer aided manufacturing (CAD/CAM) is discussed.

490. SEMINAR IN SYSTEMS AND OPERATIONS MANAGEMENT (3)
Prerequisites: MSCI 306M or MSCI 306S, and MSCI 316.
Passing score on the Upper Division Writing Proficiency Exam (WPE). Survey of current topics in Production, Operations Research, and Statistics. Emphasis will be placed on current literature and computer applications, with class projects required.

498A-Z. EXPERIMENTAL COURSES MANAGEMENT SCIENCE (3)
Passing score on the Upper Division Writing Proficiency Exam (WPE). Course content to be determined. (See subtitles in appropriate schedule of classes.)

498. FIELD ASSIGNMENTS AND REPORTS MANAGEMENT SCIENCE (1-6)
Passing score on the Upper Division Writing Proficiency Exam (WPE). Individual study pertaining to present or future career. Student must obtain approved employment. Consultation with employer and instructor determines program. A maximum of twelve units may be earned by combining Field Assignments and Reports (MSCI 498), and Independent Study (MSCI 499). An Academic Internship course.

499. INDEPENDENT STUDY MANAGEMENT SCIENCE (1-3)
Prerequisites: Consent of department chair and consent of an instructor to act as sponsor. Passing score on the Upper Division Writing Proficiency Exam (WPE). In order to do an Independent Study assignment in the College of Business Administration and Economics, a student must have at least a 3.0 overall grade point average, a 2.0 grade point average in all major courses, and a 2.0 grade point average in his option courses. A student who does not meet these grade point requirements will not receive credit for any MSCI 499 that he/she may take. Admission is based on evidence of ability to pursue independent study in-depth and on approval of a project submitted at the time of registration. Regular progress meetings and reports are required throughout the semester. Completion of the project is required before credit may be received. Enrollment in Independent Study is not allowed for the purpose of substitution for an existing course.

Graduate courses are open only to selected classified and conditionally classified graduate students who have attained an acceptable score on the GMAT. To determine their eligibility for enrollment, students must consult with the Director of Graduate Programs of the College of Business Administration and Economics.

390MBA. MATHEMATICAL ANALYSIS FOR BUSINESS (3)
Open only to graduates who carry no graduate credit) Required of all MBA applicants who do not pass MBA Mathematics Exam. A one-semester survey of basic mathematical concepts essential for understanding mathematical models used in the analysis of business problems. Mathematical topics include: sets, functions, differential and integral calculus, vectors, matrices, and systems of linear equations. Concepts are illustrated by examples of application to business problems.

591MBA. MANAGERIAL DECISION SUPPORT MODELS AND METHODS (3)
Prerequisite: Passing scores on MBA Mathematics and Statistics Exams. The course covers methods and models used to support managers in their decision-making efforts. Topics to be covered include: the modeling process; decision models; optimization; network models; simulation; waiting lines; heuristics; decision support systems; project management; multiple regression; forecasting; inventory analysis and implementation. Applications of these topics in service organizations and small businesses are provided along with applications for production organizations and large businesses. A key course requirement is a group project involving the application of one or more of the course topics to a current business problem.

606. SERVICE OPERATIONS MANAGEMENT SEMINAR (3)
Prerequisite: MSCI 591 or IE 404 or MSE 602. Approaches useful in making managerial decisions related to the service operations function, understanding of the dynamic relationships between the customer and the firm, and in-depth case analysis of progressive U.S. and international service firms' current development and issues. Topics include work flow, work force, service productivity and quality, value of the customer, facility location and capacity, technology.

666. PROJECT PLANNING AND POLICY (3)
Prerequisite: MSCI 591 or MSE 404 or MSE 602. The application of project planning methodology and modeling to problems in business. Extensive use will be made of the case method. Topics include project planning, scheduling, PERT/CPM, budgeting, Activity-Based Costing (ABC), and project management software. International issues will be explored.

667. TOTAL QUALITY MANAGEMENT (3)
Prerequisite: MSCI 591 or MSE 404 or MSE 602. The course covers the meaning and the application of Total Quality Management (TQM) in production and service organizations. The underlying quality philosophies of Deming, Taguchi, and others that have inspired the development of TQM are also covered. Application of these philosophies to current quality issues, namely responsibility for quality, role of inspection, supplier certification programs, ISO 9000, the Baldridge Award, just-in-time programs, and ethical issues. Use of quality improvement tools such as control charts, Pareto charts, cause and effect diagrams, process capability, and design of experiments. International differences in quality. Actual business examples are introduced throughout the course.
672. FORECASTING FOR BUSINESS FIRMS (3)
Prerequisite: MSCI 591 or MSE 404 or MSE 602.
Quantitative models and computer software for time series forecasting, including exponential smoothing, seasonal decomposition, and Box-Jenkins’ autoregressive moving average approaches. Students will use computer software to forecast business firms’ variables using real world data.

683. RELIABILITY (3)
Prerequisite: MSCI 591 or MSE 404 or MSE 602. Theory and application of probabilistic and statistical methods in reliability analysis. Description, analysis, and optimization of systems from a reliability point of view. Inference concerning reliability characteristics of components and systems. Availability and maintainability.

685. DECISION SUPPORT AND APPLIED EXPERT SYSTEMS (3)
Prerequisite: MSCI 591 or MSE 404 or MSE 602. Survey of applications, scope and recent development of Decision Support Systems (DSS) and related management support systems (Executive Information Systems and Expert Systems). Conceptual framework, design process, and managing the initiation, evolution and implementation of management support systems. User involvement, evaluation, and organizational integration. Decision-oriented DSS with knowledge base enhancement addressing real-world application will be required as a class project.

686. SEMINAR IN INTERNATIONAL COMPETITIVE OPERATIONS MANAGEMENT (3)
Prerequisites: MSCI 591, or MSCI 306M and MSCI 316, or MSCI 306S and MSCI 316. Subjects include: productivity and global competitiveness of modern enterprises, diagnostic studies of production strategies, managerial implications of advanced operations technologies of world-class organizations (Flexible Manufacturing Systems, Computer Integrated Manufacturing, Statistical Process Control, and Total Quality Management). Also covered are in-depth case analyses of progressive U.S. and International firms addressing these issues. A team case project is a key course requirement.

688. DECISION ANALYSIS (3)
Prerequisite: MSCI 591 or MSE 404 or MSE 602.
An integrated approach to decision analysis in terms of theory and practice with the objective of gaining insights to both rational and actual choices. Topics covered include individual utilities, subjective probabilities, risk attitudes, decision criteria, multi-attribute decision making and the use of decision models in decision support systems. Actual cases are discussed and the course culminates with individual student decision projects.

689. INTERNATIONAL TRENDS IN MANUFACTURING (3)
Prerequisite: MSCI 591 or MSE 404 or MSE 602. Recent developments in manufacturing technology and their impact on international competitiveness. Topics include: facility and work design to achieve higher productivity; an overview of automation, robotics, and computer integrated manufacturing; implementation of modern manufacturing technology in the U.S., Japan, and West European countries.

699. INDEPENDENT STUDY MANAGEMENT SCIENCE (3)
Prerequisites: Permission of graduate adviser and department chair. No more than six units of Independent Study may be taken in any one department, and no more than six units may be taken in the College of Business without prior approval of the Dean. Only those graduate students who have a current 3.0 grade point-average may register in a 600-level independent study course.

Note: See Graduate Business Interdepartmental Courses for GBUS 696D, GBUS 697D, and GBUS 698D.
DEPARTMENT OF MARKETING
Chair: Judith Hennessey

COLLEGE OF BUSINESS ADMINISTRATION AND ECONOMICS
Department Office: Business Building 3119
Phone: (818) 677-2458
Administrative Support Coordinator: Cindy Trigg

FACULTY: David Ackerman, Shirley C. Anderson, Brian Connett, Deborah A. Cours, Mary T. Curren, Oscar W. DeShields, Curt J. Domnerey, Terrance G. Gabel, Barbara L. Gross, Deborah D. Heisley, Judith E. Hennessey (Chair), Harold H. Kassanjian (adjunct), Don F. Kirchner, H. Bruce Lammers, Susan Plutsky, and J. D. Power (adjunct).

EMERITUS: Charles A. Bearchell, Max E. Lupul, Henry L. Munn, Robert Yost

THE MAJOR: In cooperation with the other departments in the College of Business Administration and Economics, the Marketing Department offers curricula leading to a Bachelor of Science Degree in Business Administration with an option in Marketing. The Marketing Department also offers a Minor in Marketing.

Marketing is an extremely broad field encompassing a range of business activities that have been estimated to account for approximately 45% of gross national product. It involves such matters as the search for new product opportunities, product development and management, distribution, advertising and promotion, sales, sales management, and post-sale activities. People employed in advertising (agencies, clients, broadcast and print media), research firms, wholesalers, retailers and transportation firms of every kind are part of the marketing segment of our economy.

Every firm, whether it is a manufacturer, retailer, wholesaler or service provider, needs marketing people to discover, measure, and analyze markets; develop and manage products; create and manage advertising, promotion, and sales; establish coherent pricing policies; and maintain positive customer relations.

The Marketing Major gives our students the opportunity to gain quantitative and qualitative skills in the field. Moreover, there is sufficient flexibility in our program to allow our students to seek additional courses to fit their needs and interests in areas outside of marketing.

CAREERS: The Marketing Major prepares our students for careers in a wide variety of fields. These include:

- Advertising
- International Marketing
- Marketing Management
- Marketing Research
- Retailing
- Sales and Sales Management

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION

SPECIAL GRADE REQUIREMENTS
Transfer students should be aware that no grade lower than “C” will be accepted on transfer from another institution to satisfy Department of College of Business Administration and Economics requirements.

LOWER DIVISION REQUIRED COURSES (16-25 UNITS)

- ACCT 200 Foundations of Accounting Information ......4
- BLAW 280 Business Law I........................................3
- ECON 200 Principles of Economics............................3
- MSCI 291 Statistical Methods in Business and Economics ..........................................................3
- BUS 205 Analysis of Communications for Business ..........3

BUSINESS COMPUTER LITERACY REQUIREMENT
(0-4 UNITS)
A passing score in the Business Computer Literacy Exam or completion with a “C” or better in (a) COMP 100 and MIS 226 or (b) MIS 225 or (c) transfer equivalent.

MATH PROFICIENCY REQUIREMENT (0-5 UNITS)
A passing score on the Calculus Proficiency Exam or completion with a “C” or better in (a) MATH 103 or (b) MATH 150A or (c) MATH 255A or (d) transfer equivalent.

WRITING SKILLS REQUIREMENT (0 UNITS)
A passing score on the Writing Proficiency Exam or completion with a “C” or better in (a) ENGL 155 or (b) PAS 155 or (c) CHS 155 or (d) transfer equivalent.

Note: The previously listed courses are prerequisite to the following upper division core requirements and should be completed before enrolling in upper division courses.

UPPER DIVISION REQUIRED COURSES, BUSINESS (35 UNITS)

Check course descriptions for prerequisite courses, which must be completed prior to enrolling in the course.

- ACCT 320 Cost Analysis for Management Decisions .......3
- BLAW 308 Business Law II......................................3
- BUS 300 Introduction to Organizations ..................0.5
- BUS 400 Analysis of Organizations...........................0.5
- ECON 310 Price Theory and Application....................3
- ECON 311 Money, Income, and International..............3
- FIN 303 Financial Management................................3
- MGT 360 Management and Organizational Behavior ......3
- MGT 497 Strategic Management Seminar....................3
- MIS 324 Management Information Systems ...............3
- MSCI 306M Manufacturing Operations Management ......3
- MSCI 306S Operations Management of Services ...........3
- MSCI 316 Managerial Decision Support Models and Methods .................4
- MKT 304 Introduction to Marketing Management ........3

UPPER DIVISION REQUIRED COURSES, MARKETING OPTION (9 UNITS)

- MKT 346 Marketing Research..................................3
- MKT 348 Consumer Behavior..................................3
- MKT 449 Marketing Management Seminar .................3

ELECTIVES, MARKETING OPTION (6 UNITS)

In addition, each student must select 6 units from the following:

- MKT 440 Integrated Marketing Communications ..........3
- MKT 441 Sales Management and Control ....................3
- MKT 442 Industrial Marketing..................................3
- MKT 443 Retail Management...................................3
MKT 445 Principles of International Marketing........3
MKT 447 Transportation and Logistics Management..................3
MKT 491 Marketing Consulting ........................................3

TOTAL UNITS IN THE OPTION (15 UNITS)

GENERAL EDUCATION (37-40 UNITS)

Three units of the mathematics requirement and 3 units of the English requirement satisfy general education sections A1 and A3. COMP 100, if used as part of the Business Computer Literacy requirement satisfies 3 units of section E requirements. In addition, ECON 310 and ECON 311 satisfy 6 units of section D course requirements and, if taken when junior status is achieved, satisfy 6 units of upper division general education course requirements.

TITLE 5 (6 UNITS)
US History and State and Local Government

ADDITIONAL UNITS (7 TO 10 UNITS)
These are unrestricted elective units.

TOTAL UNITS REQUIRED FOR THE DEGREE: 128

MINOR IN MARKETING
The Marketing Minor allows non-business majors the opportunity to pursue secondary interests in marketing.

REQUIRED COURSES (18 UNITS)

ECON 200 Principles of Economics.............................3
MKT 100 Conceptual Foundations of American Enterprise.............3
MKT 304 Introduction to Marketing Management..................3
MKT 348 Consumer Behavior.......................................3

Each student must successfully complete one of the following courses:

MKT 346 Marketing Research......................................3
MKT 440 Integrated Marketing Communications..................3
MKT 441 Sales Management and Control..........................3
MKT 442 Industrial Marketing.....................................3
MKT 443 Retail Management......................................3
MKT 445 Principles of International Marketing.................3
MKT 447 Transportation and Logistics Management.............3

In addition, each student must select any other lower or upper division three-unit course with approval of the Marketing Department Chair.

GENERAL EDUCATION (6 UNITS)
Six of these units overlap general education area requirements.

MKT 100 and ECON 200 satisfy general education requirements for sections E and D, respectively.

TOTAL UNITS IN THE MINOR (18 UNITS)

COURSE LIST

LOWER DIVISION

100. CONCEPTUAL FOUNDATIONS OF AMERICAN ENTERPRISE (3)
For non-Business Administration and non-Economics majors only. A course designed to provide an introduction to the American enterprise system, its economic foundation, and basic concepts of business organization and the nature of business activity. (Available for General Education, Applied Arts and Sciences.)

UPPER DIVISION

304. INTRODUCTION TO MARKETING MANAGEMENT (3)
Prerequisites: ECON 200 and a college-level statistic course or MKT 100. Introduction to marketing management’s role in an organization’s business strategy. Topics include marketing management strategy, implementation, and control; customer satisfaction and consumer behavior; product development; pricing strategy; marketing communications and promotion; distribution; international marketing; and marketing environment, laws, and ethics. To enhance critical thinking, communication skills, and leadership skills, the course work normally includes such elements as classroom discussion, case analyses, computer simulations and experiential exercises, and written and oral presentations.

346. MARKETING RESEARCH (3)
Prerequisites: MKT 304, MSCI 291, 316, or consent of instructor (MSCI 316 may be taken concurrently). The use of scientific methods in the formulation and solution of marketing management problems. Emphasis is on the use of marketing research as an adjunct to marketing strategy and policy formulation and on extensive application of statistical techniques and decision-theory concepts to primary and secondary data collection and interpretation.

348. CONSUMER BEHAVIOR (3)
Prerequisite: MKT 304 or consent of instructor. A comprehensive study of behavioral models and concepts to help understand, evaluate, and predict consumer behavior in terms of marketing implications. Determinants of consumer behavior are explored to gain understanding of the complex forces as they affect the marketplace. The course emphasis is upon understanding the processes that influence the acquisition, consumption, and disposition of private and public sector goods and services.

440. INTEGRATED MARKETING COMMUNICATIONS (3)
Prerequisites: MKT 304. Passing score on the Upper Division Writing Proficiency Exam (WPE). An overview of marketing communications including advertising and sales promotion. Behavioral, legal, economic, and institutional aspects, as well as decision models applied to selected areas of promotion.

441. SALES MANAGEMENT AND CONTROL (3)
Prerequisite: MKT 304. Passing score on the Upper Division Writing Proficiency Exam (WPE). Activities and organization of the sales department. Methods employed by sales managers in selecting, training, and supervising salespeople; selling methods, materials, and campaigns; distribution channels and territories; pricing, budgets, controls, and sales research. Lectures, cases, discussions, guest speakers.
442. INDUSTRIAL MARKETING (3)
Prerequisites: MKT 304 or consent of instructor. Passing score on the Upper Division Writing Proficiency Exam (WPE). An analysis of the marketing structure for industrial products, including raw materials, installations, operating supplies, accessory equipment, and fabricating materials. Buying motives and buying habits for industrial goods, major trade channels, research, pricing, advertising, and legal aspects. The purchasing function. Buying by governmental agencies. Governmental regulation.

443. RETAIL MANAGEMENT (3)
Prerequisites: MKT 304 or consent of instructor. Passing score on the Upper Division Writing Proficiency Exam (WPE). Retailing methods from the standpoint of the owner and manager. Buying planned stocks, inventory control, markup, accounting for stock control, pricing, style merchandising, and advertising. Emphasis on problems of retail management, including departmentation, personnel control, supervisory training, store layout, and store location.

445. PRINCIPLES OF INTERNATIONAL MARKETING (3)
Prerequisites: MKT 304 and senior standing in Business or Economics. Passing score on the Upper Division Writing Proficiency Exam (WPE). Study of international marketing conditions and constant changes. Topics include foreign market research; trade promotion; political, legal, economic, and cultural environments; product and service adaptability; and multinational competition.

447. TRANSPORTATION AND LOGISTICS MANAGEMENT (3)
Prerequisite: MKT 304. Passing score on the Upper Division Writing Proficiency Exam (WPE). An introduction to the management of firms that market transportation services; the managerial implications of the legal, economic, and social environment.

449. MARKETING MANAGEMENT SEMINAR (3)
Prerequisites: MKT 304, MSCI 316, either MKT 346 or MKT 348, and second semester senior standing. Passing score on the Upper Division Writing Proficiency Exam (WPE). Major in business or economics. An advanced case approach to marketing management decisions. Emphasis on developing marketing in response to variations in the competitive economic environment.

491. MARKETING CONSULTING (3)
Prerequisites: Consent of instructor and, normally a minimum 3.0 GPA overall and in business courses. Passing score on the Upper Division Writing Proficiency Exam (WPE). For senior-level Business Administration majors only. Perform situation analyses and develop business/marketing recommendations for actual clients. Mandatory client meetings several times within the semester. Present final recommendations to both the instructor and client.

496A-Z. EXPERIMENTAL COURSE - MARKETING (3)
Passing score on the Upper Division Writing Proficiency Exam (WPE). Course content to be determined. (See subtitles in appropriate schedule of classes.)

498. FIELD ASSIGNMENTS AND REPORTS - MARKETING (1-6)
Passing score on the Upper Division Writing Proficiency Exam (WPE). Individual study pertaining to present or future career. Consultation with instructor to determine program that includes field assignments and reports. A maximum of 12 units may be earned by combining Field Assignments and Reports (MKT 498) and Independent Study (MKT 499). An Academic Internship course. CR/NC only.

499. INDEPENDENT STUDY - MARKETING (1-3)
Prerequisites: Consent of department chair and consent of an instructor to act as sponsor. Passing score on the Upper Division Writing Proficiency Exam (WPE). In order to do an Independent Study assignment in the College of Business Administration and Economics, students must have at least a 3.0 overall grade point average, a 2.0 grade point average in all major courses, and a 2.0 grade point average in option courses. Students who do not meet these grade point requirements will not receive credit for MKT 499.

Admission is based on evidence of ability to pursue independent study in depth and on approval of a project submitted at the time of registration. Regular progress meetings and reports are required throughout the semester. Completion of the project is required before credit may be received. Enrollment in Independent Study is not allowed for the purpose of substitution for an existing course. A maximum of six units of Independent Study (MKT 499) may be earned in the College of Business Administration. Further, a maximum of twelve units may be earned by combining Field Assignments and Reports (MKT 498) and Independent Study (MKT 499).

GRADUATE
Graduate courses are open only to selected classified and conditionally classified graduate students who have attained an acceptable score on the GMAT. To determine their eligibility for enrollment, students majoring in areas other than business must consult with the Director of Graduate Programs of the College of Business Administration and Economics.

640. MARKETING MANAGEMENT (3)
Prerequisites: GBUS 600, ECON 500, and MSCI 591 or equivalent. An advanced approach to marketing policy. Analysis of problems of marketing management. Emphasis on development of competence in adjusting marketing policies to changes in the general economic, competitive, and social climate.

642. SEMINAR IN MARKETING COMMUNICATIONS AND MARKET STIMULATION (3)
Prerequisite: MKT 640 or consent of instructor. Methods of research and theory in market stimulation and mass communications. Particular emphasis on attitude change and the factors affecting the processing of information.

643. SEMINAR IN PRODUCT DEVELOPMENT AND MANAGEMENT (3)
Prerequisite: MKT 640 or consent of instructor. Current research pertaining to generating, analyzing, planning and controlling the organization’s existing and new product efforts. Portfolio analysis, planning and development systems, and positioning and deletion decisions.

644. SEMINAR IN CONSUMER BEHAVIOR (3)
Prerequisite: MKT 640 or consent of instructor. A study of recent contributions from the behavioral sciences that provide insight into consumer motivation and consumption behavior. Emphasis is on psychological and sociological models and current research from the literature.

645. SEMINAR IN PROMOTIONAL PLANNING (3)
Prerequisites: MKT 640 or consent of instructor. Case studies in the executive determination of promotional strategy, program planning, coordination, and administration; issues in the optimal allocation of promotional resources and
measurement of effectiveness. Special problems of ethics and government regulation. Analysis of published cases and development of new case materials.

646. SEMINAR IN PRICING STRATEGY AND POLICY (3)

647. MARKETING RESEARCH SEMINAR (3)
Prerequisites: MKT 640 or consent of instructor, MSCI 591, or equivalent. The application of marketing research techniques to business problems. Emphasis is on research design, questionnaire development, data collection techniques, and univariate and multivariate statistics.

648. SEMINAR IN ANALYTIC MODELS OF MARKET BEHAVIOR (3)
Prerequisite: MKT 640 or consent of instructor. Examination of quantitative and behavioral models and recent mathematical developments pertaining to brand switching, new product introduction, distribution and channel structure, media selection and advertising response models and simulation of marketing processes.

649. SEMINAR IN MARKETING STRATEGY AND POLICY (3)
Prerequisites: MKT 640 or consent of instructor. An integrative seminar dealing with marketing management policy problems via the case method. Emphasis on the adjustment of marketing policy to changes in the economic and social environment. Application of background and analytic tools obtained from specialized courses to solve marketing policy problems. Emphasis on methodology of case solutions.

651. CUSTOMER SATISFACTION (1)
Prerequisite: GBUS 600. Customer satisfaction is at the very core of the classic “marketing concept” and of more recent managerial approaches, such as, total quality management. Course emphasis is on critically evaluating the conceptualization, measurement, and delivery of customer satisfaction.

652. DIRECT MARKETING (1)
Prerequisite: GBUS 600. Direct marketing is a direct response marketing communications strategy used by manufacturers, suppliers, retailers, service companies, nonprofit organizations, and others. Examines major tools of direct marketing such as: catalog marketing; direct mail marketing; telemarketing; TV shopping networks; radio, magazine, and newspaper direct response marketing; electronic and computer shopping; and kiosk shopping. Emphasis is on evaluating and managing the role of direct marketing in the integrated marketing communications strategy of the organization.

653. INTEGRATED MARKETING COMMUNICATIONS (1)
Prerequisite: GBUS 600. Emphasizes an understanding and appreciation of the effects of fully integrating the promotion mix elements in a marketing communications program: advertising, direct response marketing, personal selling, public relations, and sales promotion.

654. QUALITATIVE RESEARCH METHODS IN MARKETING (1)
Prerequisite: GBUS 600. Emphasizes an understanding and critical evaluation of such qualitative marketing research methods such as focus groups, projective and indirect questioning, interpretive research, and other nonquantitative approaches to understanding consumer behavior, motivation, and values.

699. INDEPENDENT STUDY - MARKETING (3)
Prerequisites: Permission of graduate adviser and department chair. No more than six units of Independent Study may be taken in any one department, and no more than six units may be taken in the College of Business without prior approval of the Dean. Only those graduate students who have a current 3.0 grade point average may register in a 600-level Independent Study course. Note: See Graduate Business Interdepartmental Courses for GBUS 694E, GBUS 695E, GBUS 696E, GBUS 697E, and GBUS 698E.
CALIFORNIA STUDIES
(Interdisciplinary Minor)
Coordinator: Thomas Maddux

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCE

Phone: (818) 677-3566

ADVISORS: Advisement is available from either the Coordinator of California Studies or from members of the Program Committee (listed below).

PROGRAM COMMITTEE: Jim Allen (Geography), William Bowen (Geography), Gloria Lothrop (History), Thomas Maddux (History), Robert Marshall (Urban Archives), Jerry Prescott (History).

DEGREES OFFERED: Minor in California Studies.

THE PROGRAM: The minor in California Studies offers courses in an interdisciplinary program that includes courses from a variety of disciplines including biology, ethnic studies, geography, geology, history, political science, and urban studies. The minor is designed to enhance faculty and study interaction in an interdisciplinary setting and assist both in exploring the connections among different perspectives on a major subject. Students will not only study California from a variety of perspectives in the classroom but they will also have an opportunity to engage in significant field research and internship activities as part of the minor’s requirements. Internships that may assist a student’s future career will be encouraged with public agencies, local archive and research collections, and private sector firms. The minor program will also encourage and support students who wish to participate in regional conferences and on California studies.

Students should consult with the coordinator or faculty on the program committee to review requirements, courses that are available each semester, and internship and employment opportunities.

REQUIREMENTS FOR THE CALIFORNIA STUDIES MINOR
A minimum of 18 units shall be completed in at least three disciplines.

REQUERED COURSES (6 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>GEOG 330</td>
<td>Geography of California</td>
</tr>
<tr>
<td>HIST 488</td>
<td>California</td>
</tr>
</tbody>
</table>

Peoples of California (select three units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ANTH 307</td>
<td>Indians of California and the Southwest</td>
</tr>
<tr>
<td>AAS 210</td>
<td>History of Asian Americans</td>
</tr>
<tr>
<td>CHS 246</td>
<td>Contemporary Issues of the Chicana</td>
</tr>
</tbody>
</table>

Research and Internship Six units with one course from each area. A minor advisor must approve the internship program (6 Units)

Research:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ANTH 476A,C,E</td>
<td>Field Study</td>
</tr>
<tr>
<td>CHS 497</td>
<td></td>
</tr>
<tr>
<td>GEOG 497E</td>
<td>California</td>
</tr>
<tr>
<td>HIST 497T</td>
<td>California</td>
</tr>
<tr>
<td>URBS 490C</td>
<td>Field Work</td>
</tr>
</tbody>
</table>

 Internship:

Social Science Career Internship listed under all department in SS&BS, Pan African Studies 392A-Z
Field Work in the Pan African Community, Political Science 486, 498 Field Assignments and Reports, Psychology 486, Sociology 482SOC, 475 AEE/BEE, 498 AEE-CEE, Urban Studies 494ABC and Chicano/o Studies Field Work in Barrio Studies

ELECTIVES (3 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL 323</td>
<td>Plants and Animals of Southern California</td>
</tr>
<tr>
<td>CHS 445</td>
<td>History of the Chicano</td>
</tr>
<tr>
<td>GEOG 450</td>
<td>Geography of Los Angeles</td>
</tr>
<tr>
<td>GEOL 345</td>
<td>Geology of California</td>
</tr>
<tr>
<td>HIST 486A</td>
<td>History of Los Angeles</td>
</tr>
<tr>
<td>POLS 403</td>
<td>State and Local Government</td>
</tr>
<tr>
<td>URBS 450</td>
<td>Urban Problems</td>
</tr>
<tr>
<td>SBS 396</td>
<td>Los Angeles: Past, Present and Future</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN THE MINOR (18 UNITS MINIMUM)
### CENTRAL AMERICAN STUDIES PROGRAM

(Interdisciplinary Minor)

#### COLLEGE OF HUMANITIES

Program Office: Jerome Richfield 121  
Phone: (818) 677-2736

**COORDINATOR:** Roberto Lovato  
**ADVISORS:** Alberto Garcia, Roberto Lovato, Aquiles Magaña, Rossanna Perez

**PROGRAM COMMITTEE:** Rudolfo Acuña (Chicano and Chicana Studies); Alberto Garcia; Lawrence Littwin (Political Science); Marta Lopez-Garza (Chicano and Chicana Studies); Roberto Lovato; Aquiles Magaña; Rossanna Perez; Tim Smith (Geography/Urban Studies and Planning)

#### DEGREES OFFERED: Minor in Central American Studies

**THE PROGRAM:** The Central American Studies Program is an interdisciplinary program that emphasizes the transnational character of Central American communities. Courses offer a variety of perspectives and approaches, including the study of politics, art, culture, identity, and literature. Many of the courses can also be counted toward GE requirements. The courses in the Program put a strong emphasis on helping students build the skills they need to be successful in college. The Program is community-oriented, and includes an Academic Internship component to emphasize the importance of learning through work in the community. The Minor Program will be valuable for students seeking to understand their own heritage, as well as those who plan to work with the large Central American community in Los Angeles, and those who have a scholarly interest in understanding the character of this active and growing transnational community.

#### REQUIREMENTS FOR THE MINOR (24 UNITS)

**LOWER DIVISION REQUIRED COURSES (9 UNITS)**

1. One of the following two courses:
   - CAS 100  Introduction to Central American Studies  
   - CAS 102  The Salvadoran Experience

2. CAS 201  Survey of Central American Literature & Art

3. CAS 270  Fieldwork in Central American Communities

**UPPER DIVISION REQUIRED COURSES (15 UNITS)**

1. CAS 310  History of Central American Peoples

2. CAS 311  The Central American Diaspora

3. CAS 365  Changing Roles of Central American Women

4. One of the following two courses:
   - CAS 368  Central American Revolutionary Movements
   - CAS 369  Contemporary Social & Religious Movements

5. One of the following three courses:
   - CAS 440  Research Seminar on Central American Culture
   - CAS 460  Research Seminar on Central American Political Issues
   - POLS 433A  Politics of Central America

**NOTE:** In order for students to complete the minor successfully it is very important that they have a proficiency in Spanish listening, speaking, reading and writing. Therefore, we recommend that students follow one of the two tracks listed below. These courses are designed to teach Spanish language skills within the framework of Latino/a culture:

**TRACK I (for native speakers)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 104</td>
<td>Elementary Written Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>SPAN 200A Intermediate Spanish</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>SPAN 296A Spanish for Natives: Intermediate Written Spanish</td>
<td>3</td>
</tr>
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**TRACK II (for non-native speakers)**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>SPAN 220A</td>
<td>Intermediate Spanish</td>
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<tr>
<td>or</td>
<td>SPAN 220B Intermediate Spanish II</td>
<td>3</td>
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</tbody>
</table>

#### COURSE LIST

**CAS 100. INTRODUCTION TO CENTRAL AMERICAN STUDIES (3)**

Prerequisites: none. An introductory course to political, cultural, and socioeconomic aspects of the Central American experience both in Central America and in the United States. Considered the question of whether there can be a single Central American identity in light of the great variety of experiences of race, gender, ethnicity and social class in the Central American community. Available for GE credit, section F.2.

**CAS 102. THE SALVADORAN EXPERIENCE (3)**

Prerequisites: none. An introduction to the political, economic, social and cultural realities of Salvadoran life in El Salvador and in the United States. Emphasis is on various aspects of the institutional and private life of Salvadoran communities. The course is framed by historical and contemporary comparisons with other Central American national groups with respect to their experiences of race, ethnicity, class, gender and national identity. Available for GE credit, section F.2.

**CAS 201. A SURVEY OF CENTRAL AMERICAN LITERATURE AND ART (3)**

Prerequisites: none. Analysis of the literary and artistic traditions throughout the history of Central America from pre-Hispanic times to the present. The course will focus on 20th century literary and artistic movements, with the main emphasis placed on the historical and political elements and the revolutionary struggles in which these artists and writers were formed. Includes a discussion of the relationship between artistic creation and the development of Central American identity. Available for GE credit, Section C.1.

**CAS 270. FIELDWORK IN CENTRAL AMERICAN COMMUNITIES (3)**

Prerequisite: CAS 100 or 102. Field study in a selected Central American community. By reflecting on their work experience students will learn how the needs of the community can best be met, and how the well-being of the community is impacted by its relationships to state and local governments, community organizations, and private institutions. Faculty Supervisor will assist students in obtaining appropriate work placements. Field study to be conducted under supervision and after preparatory instruction to acquaint the student with field learning techniques.

Variable content. May be repeated for credit with permission of the instructor. An Academic Internship course. Available for GE credit, section E.
CAS 310. HISTORY OF CENTRAL AMERICAN PEOPLES (3)
Prerequisite: completion of the lower division writing requirement. A comparative survey of the history of Central American peoples from pre-Hispanic times to the present. Major topics include: ancient civilizations; racial, ethnic and gender relations; land and labor revolutions; basic institutions (family, church, military); 19th and 20th-century dependency, imperialism and economic growth; relations with the United States and Europe; contemporary insurrections and revolutionary movements. Available for GE credit, section D.

CAS 311. THE CENTRAL AMERICAN DIASPORA (3)
Prerequisite: completion of the lower division writing requirement. A comparative survey of the socioeconomic conditions and cultural life of Central American peoples in the United States today, particularly in California. Issues of immigration, employment, income, education, gender, family, language, national identity, acculturation and political participation will be examined. Discussion of Central American diaspora communities in other parts of the world may also be included. Available for GE credit, section F.3.

CAS 365. CHANGING ROLES OF CENTRAL AMERICAN WOMEN (3)
Prerequisites: completion of the lower-division writing requirement and either CAS 100, 102 or permission of instructor. An comparative examination of the shifting cultural, political, economic and sex/gender roles that have shaped the lives of Central American women, including women's roles prior to and after the revolutionary movements. Also includes discussions of women activists and women's movements in various Central American communities both in the United States and in Central America; the search of Central American women for identity in the United States; and women’s contributions to art, music, poetry, literature, politics, and culture. Available for GE credit, section F.2.

CAS 368. CENTRAL AMERICAN REVOLUTIONARY MOVEMENTS (3)
Prerequisites: completion of the lower division writing requirement and either CAS 100, 102, or permission of instructor. This course will examine the historical and socioeconomic conditions that have shaped the Central American revolutionary movements. Major topics of discussion include: the history of Central America leading up to these movements, the role of the U.S. policy in the region before and during the movements, the ideological sources of the revolutionary movements and their organizing strategies, the impact of the U.S. anti-intervention and solidarity movements, the peace processes in the region, and the influence of these movements on the post-revolutionary diaspora communities in the United States. Available for GE credit, section D.

CAS 369. CONTEMPORARY SOCIAL & RELIGIOUS MOVEMENTS OF THE CENTRAL AMERICAN PEOPLES(3)
Prerequisite: Completion of the lower division writing requirement and either CAS 100, 102 or permission of instructor. This course is designed to provide students with a basic theoretical and practical understanding of the contemporary social and religious movements that shape Central American life in both Central America and the U.S. The course emphasizes the transnational nature of Central American social and religious movements, as well as the way in which these movements are responding to the legacy of war and violence that has impacted Central American life both in the region and in diaspora communities. Available for GE credit, section D.

CAS 440. RESEARCH SEMINAR ON CENTRAL AMERICAN CULTURE (3)
Prerequisite: 6 credits in Central American Studies, including CAS 201, and upper-division standing, or permission of instructor. The purpose of this seminar is to acquaint students with the techniques and practice of the critical analysis of culture. Students will develop and implement comparative research projects that explore in depth some aspect of Central American cultures. Variable content. May be repeated for credit with permission of instructor. Possible topics include: The Role of Literature in the Construction of National Identity; The Creation of Texts Through Oral History; Cultural Transformation and Continuity in the Central American Diaspora; Art and Social Protest; Medicine, Religion and Sorcery in the Central American Diaspora.

CAS 460 RESEARCH SEMINAR ON CENTRAL AMERICAN POLITICAL ISSUES (3)
Prerequisites: 6 credits in Central American Studies and upper-division standing, or permission of instructor. The purpose of this seminar is to acquaint students with the techniques and practice of theoretical research. Students will develop and implement comparative research projects that explore in depth some aspect of the Central American political experience. Variable content. Possible topics include: Sandinismo in Theory and Practice; the role of the Catholic Church and the Influence of Evangelical Protestantism in Central American Communities; Postwar Democracy in Central America; Political Activism in Central American Diaspora Communities in California.
CHEMISTRY
Chair: Sandor Reichman

COLLEGE OF SCIENCE AND MATHEMATICS
Department Office: Science 1300
Phone: (818) 677-3381 Fax: (818) 677-4068
Web Page: http://www.csun.edu/~hfchm006/chem.html
Secretary: Janet Javaheri

FACULTY: Henry Abrash, Robert Bornick, Jeffrey Charonnat, Susan Collins, Joseph Hajdu, Margaret Holzer, I-Nan Hsu, Sandra Jewett, Eric Kelson, Paul Klinedinst, Gagik Melikyan, David Miller, Taebom Oh, Sandor Reichman (Chair), James Schaeffer, K. Omar Zahir

EMERITUS FACULTY: Kenneth Hardcastle, Francis Harris, William Harrison, Henry Klostergaard, LeRoy Nyquist, Carl Olsen, Edward Rosenberg, Lydia Savedoff, Ricardo Silva, Dean Skovlin

UNDERGRADUATE ADVISORS: Each major is assigned a faculty advisor. Students should consult with their advisors or seek advice at the Chemistry Office, Science 1300.
Teaching Credential Advisor: M. Holzer

GRADUATE ADVISOR: Omar Zahir, Science 4300

THE MAJOR: Chemistry is called the central science. It addresses problems raised in related fields such as biology, geology, physics and engineering. Chemists attack such problems, by analyzing substances, synthesizing new substances, and by measuring the properties of materials.

LEARNING OUTCOMES: The Chemistry Department will assess the outcome of student learning by requiring every Chemistry major (except for the Biochemistry major) to enroll in either one unit of Chemistry 495 or one unit of Chemistry 499. Those enrolled in Chemistry 495 are expected to write a research report as a culmination of their activity in directed research. This report must conform to the standards set by the American Chemical Society. Those who enroll in Chemistry 499 will be expected to choose a topic from the chemical literature, and make a formal presentation in the presence of the entire Department.
Biochemistry majors are exempt from this requirement, because they are already required to make several presentations as part of the requirement for Chemistry 465.

CAREERS: A degree in chemistry will enable you to work as a professional chemist in a chemical facility, synthesizing compounds, analyzing qualitatively and quantitatively the content of various materials, and measuring the properties of chemical substances. A degree in biochemistry will enable you to work in the developing field of genetic engineering. A degree in environmental chemistry will help you pursue a career in the area of environmental protection. In addition, any of the degree options in chemistry will enable you to enter professional schools such as medical, dental or pharmacy schools.


CREDENTIAL INFORMATION: The Chemistry B.A. (or alternatively, the Biochemistry B.S. or the Environmental Chemistry B.S.) provides an option for students planning to teach chemistry and coordinated science at the secondary level. This degree program, with some supplementary courses, has been approved by the State of California as a Credential Subject Matter Program in Science: Chemistry.

For additional details on credential programs, see the Credential Programs section of this catalog or refer to the index.

ACADEMIC ADVISEMENT: Elective courses taken to fulfill requirements in the major should have prior approval of the student’s advisor. Chemistry majors must consult with their advisors for program planning and approval each semester before being allowed to engage in touch tone registration.

DEPARTMENT PROGRAMS
The Bachelor of Arts degree is designed for students who desire: a) a strong chemistry background for careers in the health field (see advisor concerning additional necessary courses); b) careers in industry, technical sales, government laboratories, patent law, library fields, etc.; c) a single subject teaching credential (Science: Chemistry).
The Bachelor of Science in Chemistry is designed to prepare students who desire: (1) to pursue graduate work in chemistry; (2) to work in industry or government laboratories; (3) to work in the field of technical sales, hazardous materials testing and handling, chemical literature, or chemical patents. Completion of one year of German, Russian or French is strongly recommended.
The Bachelor of Science in Biochemistry degree is designed for students who desire: a) pre-medical, pre-dental, pre-pharmacy or pre-veterinary preparation; b) graduate study in biochemistry; c) careers in the life sciences that require an understanding of biological phenomena at the molecular level. The curriculum for the B.S. degree in Chemistry and for the B.S. degree in Biochemistry has been reviewed by the American Chemical Society (ACS) and meets its requirements for approved programs.
The Bachelor of Science in Chemistry (Environmental Chemistry Option) is an interdisciplinary program. It is designed to prepare students for careers (1) as chemical analysts in environmental analytical laboratories and (2) as environmental affairs specialists for the management of the environment, resources and personnel in chemical and related industrial settings as well as public agencies. This degree option provides students strong training to perform and comprehend environmental analytical methods which are approved by EPA and other regulatory agencies. In addition it provides a breadth of knowledge about the impact of pollutants on the ecosystem, and implementation of complex environmental regulations and laws for pollution prevention.
The Master of Science has two options. Option I (Chemistry Option) is designed to prepare students for research-oriented careers in chemical industry, for entry into doctoral programs at other institutions, or for teaching of chemistry at institutions such as community colleges. Option II (Environmental Chemistry Option) prepares students for careers in environmentally related areas, for advanced study in environmental health, for teaching chemistry at the high school level, and for in-service personnel to enhance their knowledge of new analytical techniques.

RECOMMENDED GENERAL EDUCATION COURSES
Three units of foreign language study may be applied to General Education in Section F, Comparative Cultural Studies.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE
Students should consult course descriptions to determine whether course prerequisites have been met.
Entry of any student into Chemistry 101, 101L is subject to a satisfactory score on the Chemistry Placement Test (see catalog section on the Chemistry Placement Test). This requirement may also be satisfied by passing Chemistry 105 at this University with a grade of "C" or better. (A grade of "C-" is unacceptable.)

**LOWER DIVISION REQUIRED COURSES (24 UNITS)**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MATH 255A/255B</td>
<td>Calculus I and II</td>
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<tr>
<td>PHYS 100A/100AL</td>
<td>General Physics I and Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 101/101L</td>
<td>General Chemistry I and Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 102/102L</td>
<td>General Chemistry II and Lab</td>
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**UPPER DIVISION REQUIRED COURSES (36 UNITS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CHEM 321/321L</td>
<td>Chemical Analysis I and Lab</td>
<td>5</td>
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<tr>
<td>CHEM 322/322L</td>
<td>Chemical Analysis II and Lab</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 331</td>
<td>Organic Chemistry I</td>
<td>5</td>
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<tr>
<td>CHEM 332</td>
<td>Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 355</td>
<td>Fundamentals of Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 355L</td>
<td>Experimental Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 401</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 495</td>
<td>Directed Undergraduate Research</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 499</td>
<td>Independent Study with a presentation of a seminar</td>
<td>6</td>
</tr>
</tbody>
</table>

**UPPER DIVISION ELECTIVES (5 UNITS)**

CHEM electives selected with approval of major advisor from 400- or 500-level courses in Chemistry. At least 3 units must be from electives other than CHEM 472, 495, 499.

**TOTAL UNITS IN THE MAJOR (55 UNITS)**

**GENERAL EDUCATION (43 UNITS)**

Section B, Natural Sciences, is partially satisfied by completing the required Physics courses in the major. Subsection A.3, Mathematics, is satisfied by MATH 150A.

**TITLE 5 (6 UNITS)**

**ADDITIONAL UNITS (5 UNITS)**

**TOTAL UNITS REQUIRED FOR B.A. DEGREE IN CHEMISTRY: 124**

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN CHEMISTRY**

Students should consult course descriptions to determine whether course prerequisites have been met.

Entry of any student into Chemistry 101, 101L is subject to a satisfactory score on the Chemistry Placement Test (see catalog section on the Chemistry Placement Test). This requirement may also be satisfied by passing Chemistry 105 at this University with a grade of "C" or better. (A grade of "C-" is unacceptable.)

**LOWER DIVISION REQUIRED COURSES (32 UNITS)**

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<tbody>
<tr>
<td>MATH 150A</td>
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<td>MATH 150B</td>
<td>Mathematical Analysis II</td>
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<td>MATH 250</td>
<td>Mathematical Analysis III</td>
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<tr>
<td>MATH 280</td>
<td>Applied Differential Equations</td>
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<tr>
<td>PHYS 220A/220AL</td>
<td>Mechanics and Lab</td>
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<tr>
<td>PHYS 220B/220BL</td>
<td>Electricity and Magnetism &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220C/220CL</td>
<td>Light, Heat, and Sound &amp; Lab</td>
<td>4</td>
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<tr>
<td>CHEM 101/101L</td>
<td>General Chemistry I and Lab</td>
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<tr>
<td>CHEM 102/102L</td>
<td>General Chemistry II and Lab</td>
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**UPPER DIVISION REQUIRED COURSES (37 UNITS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
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<td>CHEM 322/322L</td>
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<tr>
<td>CHEM 331</td>
<td>Organic Chemistry I</td>
<td>5</td>
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<tr>
<td>CHEM 332</td>
<td>Organic Chemistry II</td>
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<td>CHEM 351</td>
<td>Physical Chemistry I</td>
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</tr>
<tr>
<td>CHEM 352</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 352L</td>
<td>Physical Chemistry II Lab</td>
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<tr>
<td>CHEM 401</td>
<td>Inorganic Chemistry</td>
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<tr>
<td>CHEM 401L</td>
<td>Inorganic Chemistry Lab</td>
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<tr>
<td>CHEM 464</td>
<td>Principles of Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 495</td>
<td>Directed Undergraduate Research</td>
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</tr>
<tr>
<td>CHEM 499</td>
<td>Independent Study</td>
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**UPPER DIVISION ELECTIVES (10 UNITS)**

A minimum of 3 units of upper division electives selected from the following courses:

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<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHEM 411</td>
<td>Synthesis</td>
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<tr>
<td>CHEM 433</td>
<td>Organic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 471</td>
<td>Chemical Literature</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 481</td>
<td>Nuclear and Radiochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 495</td>
<td>Directed Undergraduate Research</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 499</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 538</td>
<td>Natural Products</td>
<td>3</td>
</tr>
</tbody>
</table>
A minimum of 7 units of upper division electives selected from the following courses:

- BIOL 360 Genetics
- BIOL 381 Cell Biology Laboratory
- BIOL 417 Microbial Physiology
- BIOL 561 Molecular Genetics of Microorganisms
- BIOL 562 Molecular Genetics of Eukaryotic Organisms
- BIOL 571 Molecular Diagnostics
- BIOL 572 Recombinant DNA Techniques
- BIOL 580 Cellular Physiology

**TOTAL UNITS IN THE MAJOR (79 UNITS)**

**GENERAL EDUCATION (43 UNITS)**

Section B, Natural Sciences, is partially satisfied by completing the required Physics courses in the major. Subsection A.3, Mathematics, is satisfied by MATH 255A.

**TITLE 5 (6 UNITS)**

**ADDITIONAL UNITS (NONE)**

**TOTAL UNITS REQUIRED FOR B.S. DEGREE IN BIOCHEMISTRY: 128**

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN CHEMISTRY (ENVIRONMENTAL CHEMISTRY OPTION)**

Students should consult course descriptions to determine whether course prerequisites have been met.

Entry of any student into Chemistry 101, 101L is subject to a satisfactory score on the Chemistry Placement Test (see catalog section on the Chemistry Placement Test). This requirement may also be satisfied by passing Chemistry 105 at this university with a grade of “C” or better. (A grade of “C-” is unacceptable.)

**LOWER DIVISION REQUIRED COURSES (36 UNITS)**

- BIOL 106/106L Biological Principles I and Lab ..... 4
- BIOL 107/107L Biological Principles II and Lab ..... 4
- BIOL 281/282 Human Physiology and Lab .......... 4
- CHEM 101/101L General Chemistry I & Lab .......... 5
- CHEM 102/102L General Chemistry II & Lab .......... 5
- MATH 255A/255B Calculus I and II .................... 6
- PHYS 100A/100AL General Physics I and Lab .......... 4
- PHYS 100B/100BL General Physics II and Lab .......... 4

**UPPER DIVISION REQUIRED COURSES (40 UNITS)**

- CHEM 321/321L Chemical Analysis I and Lab .......... 4
- CHEM 322/322L Chemical Analysis II and Lab .......... 4
- CHEM 333 Principles of Organic Chemistry I .......... 4
- CHEM 334 Principles of Organic Chemistry II ....... 4
- CHEM 355 Fundamentals of Physical Chemistry . 3
- CHEM 355L Experimental Physical Chemistry ...... 1
- CHEM 401 Inorganic Chemistry .................... 3
- GEOL 300 Environmental Geology .................... 3
- HSCI 454 Environmental Health Law .......... 3
- CHEM 541/541L Environmental Chemistry I & Lab .... 4
- HSCI 456 Industrial Toxicology .................... 3
- HSCI 459 Hazardous Materials and Waste Management 3
- CHEM 495 Directed Undergraduate Research or
  CHEM 499 Independent Study with a presentation of a seminar .......... 1

**UPPER DIVISION ELECTIVES (7 UNITS)**

Electives chosen from the following courses:

- CHEM 464 Principles in Biochemistry .......... 4
- CHEM 481 Nuclear and Radiochemistry .......... 4
- CHEM 495 Directed Undergraduate Research.1-3
- HSCI 455 Microbiological Hazards in
  Environmental Health & Lab ............ 4
- HSCI 465 Occupational Safety .................... 3
- HSCI 466A Occupational Health Environment... 3
- HSCI 469 Environment Risk Analysis .............. 3

**TOTAL ENVIRONMENTAL CHEMISTRY OPTION UNITS: 83**

**GENERAL EDUCATION (37 UNITS)**

Section B, Natural Sciences, is satisfied by completing PHYS 100A, 100AL, 100B, and GEOL 300. Subsection A.3, Mathematics, is satisfied by MATH 255A. Environmental chemistry majors receive credit for three units of Health Science in Section E, Applied Arts and Sciences.

**TITLE 5 (6 UNITS)**

**ADDITIONAL UNITS (3 UNITS)**

**TOTAL UNITS REQUIRED FOR B.S. DEGREE IN CHEMISTRY (ENVIRONMENTAL CHEMISTRY OPTION): 129**

**REQUIREMENTS FOR MINOR IN CHEMISTRY**

**LOWER DIVISION REQUIRED COURSES (10 UNITS)**

- CHEM 101/101L General Chemistry I and Lab .......... 5
- CHEM 102/102L General Chemistry II and Lab .......... 5
  (Physics 100A-B, General Physics, is recommended.)

**UPPER DIVISION REQUIRED COURSES (12 UNITS)**

Select one course from the following:

- CHEM 365 Introduction to Biochemistry .......... 4
- CHEM 464 Principles of Biochemistry .......... 4
  or a minimum of three units of other approved upper division Chemistry for which the student has the prerequisite.

**TOTAL UNITS REQUIRED IN THE MINOR: 25 OR 26 UNITS**

**REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE**

For admission to classified graduate status in the program:

1. A bachelor’s degree with a 2.5 overall grade point-average and a chemistry major equivalent to that at CSUN. For admission to the Environmental Chemistry option, a baccalaureate degree, other than chemistry, with appropriate science background is acceptable.

2. Satisfactory scores on the departmental proficiency examinations. Foreign students must submit TOEFL scores of 550 or higher.

3. Departmental approval.

**OPTION I—CHEMISTRY OPTION**

This option requires submission of an acceptable thesis based on laboratory research, within five years of attaining classified status. This option prepares students for research oriented careers in chemical industry, for entry to doctoral degree programs or for teaching chemistry at institutions.
such as community colleges. Normally, degree candidates in this option are expected to serve as laboratory teaching assistants in the Department.

FOR THE DEGREE:
1. A minimum of 30 units of graduate work including a thesis. At least 21 units must be taken in 500- or 600-level courses.
   a. Required Courses (6 to 12 Units)
      CHEM 691 Literature Seminar .........................1
      CHEM 692 Thesis Seminar ...............................1
      CHEM 696 Dir. Graduate Research .....................3-7
      CHEM 698 Thesis ...........................................1-3
   b. Electives (18 to 24 Units)
      The electives should be selected with the approval of the graduate advisor from 400- and 500-level courses and must include at least one course which has a laboratory component. A maximum of 9 units of 400-level courses may be applied toward the 30 units required for the degree.
3. Formal approval by the chemistry faculty.

TOTAL UNITS REQUIRED FOR THE M.S. DEGREE, OPTION I: 30

OPTION II—ENVIRONMENTAL CHEMISTRY OPTION
This option which focuses training on Environmental Chemistry prepares students for careers in industry which involve the application of chemistry to environmentally related areas, for entry into doctoral programs in areas related to chemistry, such as Environmental Health, and for teaching chemistry at the high school level (together with the appropriate teaching credential). This option is also designed for in-service teachers to improve their skills and for in-service personnel in industry to familiarize themselves with new techniques and training in Environmental Chemistry. Normally, degree candidates in this option are expected to serve as laboratory teaching assistants in the Department.

FOR THE DEGREE:
1. A minimum of 30 units of graduate work including a thesis to be completed within five years of attaining classified status. At least 21 units must be completed in 500 or 600-level courses in chemistry. Up to six units of credit may be earned in areas outside of chemistry with the approval of the faculty advisor.
Minimal Prerequisites:
In order to effectively complete this option, entering students should normally have completed the following undergraduate course work:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry</td>
<td>10</td>
</tr>
<tr>
<td>Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Physical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

All requirements must be completed within five years of attaining classified status.
   a. Required Courses (13-19 Units)
      CHEM 541/541L Environmental Chemistry I .........4
      CHEM 542/542L Environmental Chemistry II .........4
      CHEM 691 Literature Seminar ........................1
      CHEM 692 Thesis Seminar ................................1
      CHEM 696 Dir. Graduate Research ....................3-7
      CHEM 698 Thesis ...........................................1-3
   b. Electives (11-17 Units)
      The electives should be selected with the approval of the graduate advisor from 400- and 500-level courses. A maximum of 9 units of 400-level courses and 7 units of CHEM 696 may be applied toward the 30 units required for the degree.

TOTAL UNITS REQUIRED FOR THE M.S. DEGREE, OPTION II: 30

LOWER DIVISION

101. GENERAL CHEMISTRY I (4)
Prerequisite: A satisfactory score on the Chemistry Placement Test (see section on the Chemistry Placement Test). Corequisite: CHEM 101L. A basic course in the fundamental principles and theories with special emphasis on chemical calculations. It includes a discussion of the kinetic molecular theory, atomic structures, and the periodic table, solutions, and oxidation-reduction. The recitation portion deals with problem solving, a review of the lecture material and quizzes. Three hours of lecture and one hour of recitation per week. Students using this course to satisfy a General Education requirement in Natural Sciences will satisfy the corresponding laboratory requirement by completing CHEM 101L.

101L. GENERAL CHEMISTRY I LABORATORY (1)
Corequisite: CHEM 101. The laboratory work emphasizes basic laboratory skills, quantitative relationships in chemistry, and inorganic preparative procedures. Three hours of laboratory per week. Students may use this course to satisfy the laboratory requirement in Natural Sciences of General Education provided that CHEM 101 is also completed.

102. GENERAL CHEMISTRY II (4)
Prerequisite: CHEM 101/101L. Corequisite: CHEM 102L. A continuation of CHEM 101; an introduction to kinetics, gas phase and solution equilibria, electrochemistry, chemical thermodynamics, radiochemistry, organic chemistry and the descriptive chemistry of the more familiar metals and nonmetals. The recitation portion deals with problem solving, a review of the lecture material and quizzes. Three hours of lecture and one hour of recitation per week. Students using this course to satisfy a General Education requirement in Natural Sciences will satisfy the corresponding laboratory requirement by completing CHEM 102L.

102L. GENERAL CHEMISTRY II LABORATORY (1)
Corequisite: CHEM 102. The laboratory consists of experiments dealing with kinetics, acid-base and solubility equilibria, selected reactions of metals and nonmetals, and qualitative elemental analysis. Three hours of laboratory per week. Students may use this course to satisfy the laboratory requirement in Natural Sciences of General Education provided that CHEM 102 is also completed.

103. INTRODUCTORY CHEMISTRY I (4)
Prerequisite: A qualifying score on the ELM Examination or satisfying the ELM exemption requirements. A course designed for non-science majors, stressing fundamental principles of inorganic chemistry, structure of atoms and molecules, periodic table, states of matter, chemical calculations involving stoichiometry and simple algebraic operations. Not open to science or engineering majors.
Credit cannot be earned in both CHEM 103 and CHEM 105. Three hours of lecture and three hours of laboratory (with quiz and recitation) per week. Students using this course to satisfy a General Education Requirement in the Natural Sciences will automatically satisfy the laboratory requirement.

104, 104L. INTRODUCTORY CHEMISTRY II (4)
Prerequisite: CHEM 103. A continuation of CHEM 103. A course for non-science majors. Properties of solutions, chemical equilibrium, acids and bases. The chemistry of simple organic compounds and common elements. Three hours of lecture and three hours of laboratory (with quiz and recitation) per week. Not open to science or engineering majors. Students using this course to satisfy a General Education requirement in Natural Sciences will automatically satisfy the laboratory requirement.

105. PRINCIPLES OF CHEMISTRY (3)
Prerequisite: A qualifying score on the ELM Examination or satisfying the ELM exemption requirements. A one-semester course based on a systematic, semiempirical approach to the submicroscopic world of chemistry. The development of modern ideas concerning atomic and molecular structure, principles of compound formation, and chemical reactivity will be emphasized. Selected topics in applied chemistry and the application of chemical principles to life and environmental sciences will be explored. Engineering and Science majors should consult with their advisors before enrolling in this course. Credit cannot be earned in both CHEM 103 and CHEM 105. Three hours of lecture per week. Students using this course to satisfy a General Education requirement in Natural Sciences may satisfy the corresponding laboratory requirement by completing CHEM 110L.

106. GENERAL CHEMISTRY II FOR ENGINEERING (3)

110. CHEMISTRY, TECHNOLOGY & MODERN SOCIETY (3)
Prerequisite: A qualifying score on the ELM Examination or satisfying the ELM exemption requirements. A one semester course introducing the fundamentals of chemical theory and relating them to technological advances and their impact on our society and its environment. Three hours of lecture per week. Students using this course to satisfy a General Education requirement in Natural Sciences may satisfy the corresponding laboratory requirement by completing CHEM 110L.

110L. CHEMISTRY, TECHNOLOGY AND MODERN SOCIETY LABORATORY (1) (Formerly 105L)
Corequisite: CHEM 110 or 105. A laboratory-demonstration course designed to accompany CHEM 110. Laboratory experiments and demonstrations to augment lecture material will be performed. The student will also be introduced to some basic laboratory skills. One three-hour laboratory session a week. No credit for Science and Engineering majors. This course may be used to satisfy the laboratory requirement in Natural Sciences of General Education provided CHEM 105 or 110 is also completed.

235. INTRODUCTORY ORGANIC CHEMISTRY (4)
Prerequisite: CHEM 102 or 104. A course describing simple aliphatic and aromatic compounds with emphasis on chemistry of functional groups. Three hours of lecture and 3 hours of laboratory per week. No credit for Science and Engineering majors except for certain options in Biology, Geology, and Physics; consult your major department. This course does not substitute for CHEM 331 or 333.

UPPER DIVISION

321. CHEMICAL ANALYSIS I (2)
Prerequisite: CHEM 102. Corequisite: CHEM 321L. A course emphasizing the principles of analytical reactions, and the theory and applications of instruments to problems of chemical analysis. Principal topics include volumetric methods and instrumental techniques such as spectrophotometry, electrochemistry, and chromatography. Two hours of lecture per week.

321L. CHEMICAL ANALYSIS I LABORATORY (2)

322. CHEMICAL ANALYSIS II (2)
Prerequisite: CHEM 321. Corequisite: CHEM 322L. A continuation of CHEM 321 with special emphasis on polarography and voltammetry, chromatography, spectrophotometric methods, x-ray diffraction and radiochemical methods. Two hours of lecture per week.

322L. CHEMICAL ANALYSIS II LABORATORY (2)
Corequisite: CHEM 322. A laboratory course based on the analytical chemistry principles covered in CHEM 322. Two three-hour laboratory periods per week.

331. ORGANIC CHEMISTRY I (5) FALL ONLY
Prerequisite: CHEM 102. A thorough study of the aliphatic and aromatic compounds of carbon, their reactions and uses. Emphasis is placed upon application of modern principles to structure, reactivity, and synthesis. The laboratory is designed to acquaint the student with organic laboratory techniques and the preparation of organic compounds. Three hours of lecture and two 3-hour laboratory periods per week.

332. ORGANIC CHEMISTRY II (5) SPRING ONLY
Prerequisite: CHEM 331. A continuation of CHEM 331. Three hours of lecture and two 3-hour laboratory periods per week.

333. PRINCIPLES OF ORGANIC CHEMISTRY I (4)
Prerequisite: CHEM 102. Study of aliphatic and aromatic compounds. Special emphasis on functional groups and their reactions. Attention is given to representative compounds of interest in biology and medicine. Three lecture hours and one 3-hour laboratory per week. Does not substitute for 331 in B.S. Chemistry and B.A. Chemistry programs.

334. PRINCIPLES OF ORGANIC CHEMISTRY II (4)
Prerequisite: CHEM 333. A continuation of Chemistry 333. Three hours of lecture and one 3-hour laboratory per week. Does not substitute for 332 in B.S. Chemistry and B.A. Chemistry programs.

351. PHYSICAL CHEMISTRY I (4) FALL ONLY
Prerequisites: CHEM 102, Mathematics 250 (or corequisite), Physics 220A. Basic laws of thermodynamics, states and
changes of state, solutions, equilibria, phase rule, kinetic molecular theory, chemical kinetics, and electrochemistry. Four lecture hours per week.

352. PHYSICAL CHEMISTRY II (3) SPRING ONLY
Prerequisite: CHEM 321, 321L, PHYS 220B, MATH 280 (or corequisite). A continuation of CHEM 351. Quantum mechanics, atomic and molecular structure, spectroscopy, and statistical mechanics. Three hours of lecture per week. Chemistry B.S. majors must take CHEM 352L concurrently.

352L. PHYSICAL CHEMISTRY II LABORATORY (2)
SPRING ONLY
Corequisite: CHEM 352. An introduction to the experimental methods of physical chemistry based on the theory covered in both semesters of the physical chemistry sequence. Six hours of laboratory per week.

355. FUNDAMENTALS OF PHYSICAL CHEMISTRY (3)
FALL ONLY
Prerequisites: CHEM 102, 321, 321L, Mathematics 150B or 255B, Physics 100A. Corequisite: Physics 100B. A short course in physical chemistry, presenting such topics as thermodynamics, chemical equilibrium, solutions of electrolytes, reaction kinetics, quantum chemistry, spectroscopy, and the properties of macromolecules with special applications to the life sciences. Three hours of lecture per week. No credit for Engineering or Physics majors. Does not substitute for 351 in B.S. program.

355L. EXPERIMENTAL PHYSICAL CHEMISTRY (1) FALL ONLY
Prerequisite: Chemistry 355 or corequisite. A laboratory course for the non-chemistry major or B.A. chemistry major taking Chemistry 355. Selected experiments illustrating some of the important physicochemical concepts covered in Chemistry 355 are performed. Not open to B.S. chemistry majors. Three hours of laboratory per week.

365. INTRODUCTION TO BIOCHEMISTRY (4) SPRING ONLY
Prerequisite: Chemistry 235. A course designed for non-science majors, describing chemistry and metabolism of proteins, carbohydrates, lipids, vitamins, hormones, etc. Three hours of lecture and one 3-hour laboratory per week. No credit for Science or Engineering majors except for certain options in Biology and Physics; consult your major department.

401. INORGANIC CHEMISTRY (3)
Prerequisite: Chemistry 352 or Chemistry 355. Principles of chemical bonding and molecular structure; survey of the chemistry of the elements of the periodic system. Three hours of lecture per week.

401L. INORGANIC CHEMISTRY LABORATORY (1)
Prerequisite: Chem 102. Chem 334 or 332. Chem 352 or 355. Corequisite: Chem 401. The synthesis and characterization of inorganic and organometallic compounds. Synthetic techniques important to inorganic chemistry such as electrochemical synthesis, autoclave reactions, inert atmosphere techniques as well as inorganic spectroscopic techniques.

411. SYNTHESIS (3)
Prerequisites: Chemistry 332 and 401 or Chemistry 334 and 401. Preparation of inorganic and organic compounds and their identification, using advanced methods. One hour of lecture and six laboratory hours per week.

433. ORGANIC ANALYSIS (3) FALL ONLY
Prerequisites: Chemistry 332 and Chemistry 321/321L. Identification of organic compounds, involving qualitative and quantitative determinations. One lecture and six laboratory hours per week.

451. MODERN PHYSICAL CHEMISTRY (3)
Prerequisite: Chemistry 352. Selected topics in modern chemical bonding, solid-state and solution properties. Three hours of lecture per week.

461. BIOCHEMISTRY I (4) FALL ONLY
Prerequisites: Chemistry 321/321L and Chemistry 334 or 332. Corequisite: Chemistry 355. A study of protein structure and function, enzyme mechanisms, biological membranes, and the basis of disease. Three hours of lecture and one 3-hour laboratory period per week.

462. BIOCHEMISTRY II (4) SPRING ONLY
Prerequisites: Chemistry 461 or consent of instructor. A course in modern biochemical analysis of biological systems. Mechanism of enzyme action, energy relations in biological systems. Three hours of lecture, one 3-hour laboratory per week.

464. PRINCIPLES OF BIOCHEMISTRY (4)
Prerequisite: Chemistry 334 or 332. Chemistry 321/321L strongly recommended. Properties and metabolism of the constituents of biological systems. A short course in biochemical genetics. Three hours of lecture and one 3-hour laboratory per week.

465. TOPICS IN BIOCHEMISTRY (3)
Prerequisite: Chemistry 462 or consent of instructor. A seminar in major recent developments in biochemistry. Three hours of lecture per week.

471. CHEMICAL LITERATURE, INFORMATION RETRIEVAL AND PRESENTATION (1)
Prerequisites: Open only to junior and senior Science majors and graduate students in Science. The use of the chemical literature including abstracts and computer retrieval systems. Preparation of manuscripts and oral presentations. One hour of lecture per week.

472. LABORATORY GLASSBLOWING (1)
Prerequisite: Open only to junior and senior Science majors. Demonstration and practice in basic glassblowing apparatus. One 3-hour laboratory per week.

481. NUCLEAR AND RADIOCHEMISTRY (4)
Prerequisite: Chemistry 352 or Chemistry 355. Study of the atomic nucleus and its properties. Description of nuclear phenomena and an introduction to nuclear theory. Three hours of lecture and one 3-hour laboratory period per week.

495. DIRECTED UNDERGRADUATE RESEARCH (1-3)
Prerequisites: Chemistry 332 or 334 and Chemistry 352 or 355. Interested students should make arrangements with the department as soon as possible, preferably during the previous semester. A course designed for students of advanced rank and proven competence in chemistry. A program of original independent research, culminating in a written report, to be carried out under the direction of one of the Chemistry faculty. Upon prior approval by the Chemistry Department of a detailed research proposal, the
531. SURVEY OF ORGANIC REACTIONS (3)  
Formerly CHEM 434  
Prerequisite: Chemistry 332. A detailed survey of the ranges of application and mechanisms of organic oxidations, reductions, additions, eliminations, condensations and degradations with specific reference to their applications to problems of synthesis and structure elucidation. Three hours of lecture per week.

534. ADVANCED ORGANIC CHEMISTRY (3)  
(Formerly CHEM 434)  
Prerequisites: Chemistry 332 and Chemistry 352. Physical and physiochemical consideration of organic chemistry. Kinetics, configuration. Three hours of lecture per week.

538. NATURAL PRODUCTS (3)  
(Formerly CHEM 438)  
Prerequisite: Chemistry 433 or consent of instructor. The chemistry and biosynthesis of naturally-occurring compounds including alkaloids, steroids, terpenes, and mold metabolites, based on structure elucidation, synthesis, biosynthetic considerations, and physiological properties. Use of modern methods for structure determination and application of unique structural features in theoretical chemistry. Three hours of lecture per week.

541. ENVIRONMENTAL CHEMISTRY I (2)  
Prerequisite: CHEM 322/322L or approval of the instructor. Corequisite: CHEM 541L. A comprehensive survey of the earth’s natural processes in atmosphere, water and soil, and the chemical aspects of the impact that human activities have produced in the natural environment. In addition, topics such as energy resources, hazardous waste management/treatment, and risk assessment will be discussed. Two hours of lecture per week.

541L. ENVIRONMENTAL CHEMISTRY I LABORATORY (2)  
Prerequisite: CHEM 322/322L or approval of the instructor. Corequisite: CHEM 541. Application of chemical and instrumental methods for the identification and quantification of inorganic and organic contaminants present in water, soil, and air samples using E.P.A. approved methodologies and protocols. Six hours of laboratory per week.

542. ENVIRONMENTAL CHEMISTRY II (1)  
Prerequisite: CHEM 541/541L or approval of the instructor. Corequisite: CHEM 542L. An advanced-level discussion of topics in air, water and soil pollution. It includes the role of humic substances in natural waters, stratospheric ozone depletion, acid rain, photochemical smog, soil and treatment technologies. Case studies on soil and water pollution will also be discussed. One hour of lecture per week.

542L. ENVIRONMENTAL CHEMISTRY II LABORATORY (2)  
Prerequisite: CHEM 541/541L or approval of instructor. Corequisite: CHEM 542. An advanced level experimental investigation on the identification and analysis of contaminated water, air, and soil samples will be carried out. Experiments using latest treatment technologies will be conducted to understand the application of chemical and biochemical concepts toward solving environmental problems. In addition, experiments to characterize complex environmental systems will be undertaken. Six hours of laboratory per week.

551. CHEMICAL THERMODYNAMICS (3)  
Prerequisite: CHEM 352. Thermodynamic properties of pure systems, mixtures, electrochemical systems, surface phases and systems under the influence of external fields; equilibria and thermodynamics of chemical reactions. Three hours of lecture per week.

552. QUANTUM CHEMISTRY (3)  
Prerequisite: Chemistry 451. The elements of wave mechanics and the application to chemical problems. Three hours of lecture per week.

553. CHEMICAL KINETICS (3)  
Prerequisite: Chemistry 352. A critical consideration of the kinetics of reactions in gaseous and condensed phases, experimental methods, treatment of data, catalysis and chain reactions. Recent developments in the theory of reaction rates. Three hours of lecture per week.

554. MACROMOLECULES (3)  
(Formerly CHEM 453)  
Prerequisite: Chemistry 352. Physical chemistry of high molecular weight compounds, ultracentrifuge, electrophoresis, light scattering. Three hours of lecture per week.

595A-Z. SPECIAL TOPICS (1-3)  
Prerequisite: Consent of advisor and instructor. Specialized topics from a concentrated field of current interest presented at an advanced level. Since the topic chosen will be different each semester, students may take this course more than once with approval.

599. INDEPENDENT STUDY (1-3)  
Prerequisites: Graduate standing and consent of the instructor in charge. Oral reports by graduate students on important topics from the current literature in chemistry.

691. LITERATURE SEMINAR (1)  
Prerequisites: Graduate standing and consent of the instructor in charge. Oral reports by graduate students on results of their thesis research. Before presenting the report, a student must submit a rough draft of the MS thesis to the graduate student’s thesis committee and to the Department of Chemistry as a whole.

692. THESIS SEMINAR (1)  
Prerequisites: Graduate standing and consent of the instructor in charge. Oral reports by graduate students on results of their thesis research. Before presenting the report, a student must submit a rough draft of the MS thesis to the graduate student’s thesis committee and to the Department of Chemistry as a whole.

696. DIRECTED GRADUATE RESEARCH (1-7)  
Prerequisite: Classified status and consent of a faculty member who will serve as thesis advisor. A program of research conducted under the direction of the thesis advisor in an area of interest to the student. This course may be repeated but no more than seven units are allowed toward the MS degree.

698. THESIS (1-3)  
Prerequisite: Classified standing and consent of advisor. For the MS degree: Thesis will include the preparation and writing of the master’s thesis. The course may be repeated once but not more than three units are allowed towards the MS degree.
CHICANA AND CHICANO STUDIES DEPARTMENT
Chair: Gerald Resendez

COLLEGE OF HUMANITIES
Department Office: Building 15, Room 103
Phone: (818) 677-2734, (818) 677-2735.
Secretary: Martha Alzamora
Assistant: Yanino Flores

FACULTY: Rodolfo Acuña, Lorenzo Flores, Francine Hallcom, José Hernández, Fermín Herrera, Marta López-Garza, María-Isabel Miranda, Margarita Nieto, Juana Mora, Evangeline Ordaz, Mary Pardo, Gerald Resendez (Chair), David Rodriguez, Everto Ruiz, Raul Ruiz, Marta Sánchez, Shirlene Soto.

UNDERGRADUATE ADVISORS: Mary Pardo, Gerald Resendez, Raul Ruiz, Marta Sánchez, Everto Ruiz, Lorenzo Flores.

GRADUATE ADVISOR: Isabel Miranda, Rodolfo Acuña.

DEGREES OFFERED: B.A., M.A.

CREDENTIAL INFORMATION: A single subject teaching credential (Secondary) may be obtained by completing requirements in the Chicana/o Studies/Social Sciences concentration waiver program. Students majoring in Liberal Studies have an opportunity to select various courses from this department to satisfy requirements leading toward a multiple subject teaching credential (Elementary). The department also participates in the training of students seeking either of the basic teaching credentials with emphasis in bilingual education. For details on the credential program, see the Credential Programs section of this catalog.

OPERATION CHICANA/O TEACHER PROGRAM: This program is designed to assist students who are pursuing professional goals as bilingual cross-cultural teachers. The program offers services in academic advisement and tutoring, Bilingual Teacher and Title VII grant information, Spanish language proficiency examinations, educational training seminars, and educational employment opportunity information. For additional information call Director Marta Sanchez, 885-2731, or 885-2734.

CHICANA AND CHICANO STUDIES WRITING PROGRAM: Students have the opportunity to complete the university’s writing requirements through a complete program of courses offered by the Department of Chicana/o Studies. Those who must complete basic writing coursework as assessed through their English Placement Test results may take developmental writing courses Chicana/o Studies 097 and 098. Students who have successfully completed the EPT may enroll in CHS 155: First Year Student Composition. Students may also complete their oral communication skills requirement in CHS 151. Additional tutorial support and help with word processing skills is provided through the Chicana/o Studies Writing Lab. Further development of writing and research skills is provided in CHS 219 and 230. The department also offers a creative writing course, CHS 280.

STUDENT ORGANIZATIONS: The Department of Chicana/o Studies was established through the combined effort of students and faculty in the late sixties. For this reason, it has always shared a special relationship with Chicano Student organizations at California State University, Northridge. The principle student organization that has coexisted and developed parallel to the department is El Movimiento Estudiantil Chicano de Aztlán (MECHA). MECHA is the umbrella organization for various subcommittees and a number of special adhoc committees. It often serves as an advisory organization to the Department, as student input has always been crucial to the planning and implementation of departmental activities.

The subcommittees of MECHA reflect various student interest groups. Some of these include:

- Ballet Folklórico Aztlán
- Central American United Student Association (CAUSA)
- Chicanos For Community Medicine
- Cinco de Mayo (adhoc)
- Committee in Solidarity with the People of El Salvador (CISPES)
- El Popo Chicano Student Newspaper
- El Teatro Aztlán
- Latino Business Association (LBA)
- Mujeres de Aztlán
- Posadas Committee (adhoc)
- Queer Latina/o/Unid/a/As
- Students United for Bilingual Education

ACADEMIC ADVISEMENT: Students who elect the Chicana/o Studies Major, Minor or Major with Options, should consult a faculty advisor for assistance in the selection of courses best suited to their needs. Faculty advisors are available prior to registration and regularly during the semester.

Chicana/o Studies majors are required to seek advisement prior to registration each semester.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE


OPTION I: SINGLE MAJOR IN CHICANO STUDIES

LOWER DIVISION REQUIRED COURSES (12 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHS 100</td>
<td>Chicana/o Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHS 201</td>
<td>Survey Mexican Literature in Translation</td>
<td>3</td>
</tr>
<tr>
<td>CHS 230</td>
<td>Introduction to Research Methods in Chicana/o Studies</td>
<td>3</td>
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<tr>
<td>CHS 270</td>
<td>Field Work in Barrio Studies</td>
<td>3</td>
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UPPER DIVISION REQUIRED COURSES (12 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHS 345</td>
<td>History of the Mexican Peoples</td>
<td>3</td>
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<tr>
<td>CHS 351</td>
<td>Survey of Mexican Philosophical Thought</td>
<td>3</td>
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<tr>
<td>CHS 365</td>
<td>Third World Women and the Chicana</td>
<td>3</td>
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<tr>
<td>CHS 380</td>
<td>Chicana/o Literature</td>
<td>3</td>
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<tr>
<td>CHS 401</td>
<td>Pre-Cuauhtemoc Meso-American Civilization</td>
<td>3</td>
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<tr>
<td>CHS 445</td>
<td>History of the Chicana/o</td>
<td>3</td>
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<tr>
<td>CHS 460</td>
<td>Politics of the Chicana/o</td>
<td>3</td>
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<tr>
<td>CHS 497</td>
<td>Senior Seminar in Chicana/o Studies</td>
<td>3</td>
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UPPER DIVISION ELECTIVES (12 UNITS)

Select six units from each of two categories listed below.

A. SOCIAL SCIENCE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHS 346</td>
<td>History of the Chicana/Mexicana</td>
<td>3</td>
</tr>
<tr>
<td>CHS 350</td>
<td>Religion and Chicana/o Society</td>
<td>3</td>
</tr>
<tr>
<td>CHS 360</td>
<td>Political Organizations of the Barrio</td>
<td>3</td>
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<tr>
<td>CHS 361</td>
<td>Urbanization and the Chicana/o</td>
<td>3</td>
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<tr>
<td>CHS 366</td>
<td>Women in Latin America</td>
<td>3</td>
</tr>
<tr>
<td>CHS 420</td>
<td>The Chicana/o in the U.S. Economy</td>
<td>3</td>
</tr>
<tr>
<td>CHS 470</td>
<td>Cultural Differences and the Chicana/o</td>
<td>3</td>
</tr>
<tr>
<td>CHS 473</td>
<td>The Chicana/o and Social Institutions</td>
<td>3</td>
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</tbody>
</table>
## B. HUMANITIES AND THE ARTS

| CHS 306 | The Chicana/o in Films | 3 |
| CHS 310 | Regional Music of Mexico | 3 |
| CHS 390 | Alternative Chicana/o Press | 3 |
| CHS 405 | Chicana/o and the Media | 3 |
| CHS 413A/B | Practicum in Mexican American Choral Music | 3 |
| CHS 414A/B | Mexican Dance | 3 |
| CHS 415 | Mexican Dance II | 3 |
| CHS 453 | Ideology, Theory, and the Chicana/o Experience | 3 |
| CHS 486A/B | Nahuatl I/II | 3 |

## B. EDUCATION

| CHS 416 | Children’s Songs and Games | 3 |
| CHS 430 | The Chicana/o Child | 3 |
| CHS 431 | The Chicana/o Adolescent | 3 |
| CHS 432 | Counseling the Chicana/o Child | 3 |
| CHS 433 | Language Acquisition of the Chicana/o and ESL Speakers | 3 |
| CHS 434 | Current Educational Theories of Chicana/os in the Schools | 3 |
| CHS 471 | The Chicana/o Family | 3 |
| CHS 482 | Language of the Barrio | 3 |

**TOTAL UNITS IN THE MAJOR (45 UNITS)**

### OPTION II: DOUBLE MAJOR OPTION

#### LOWER DIVISION REQUIRED COURSES (9 UNITS)

| CHS 100 | Chicana/o Culture | 3 |
| CHS 201 | Survey of Mexican Lit. in Translation | 3 |
| CHS 270 | Field Work in Barrio Studies | 3 |

#### UPPER DIVISION REQUIRED COURSES (12 UNITS)

| CHS 445 | History of the Chicana/o | 3 |
| CHS 453 | Ideology, Theory, and the Chicana/o Experience | 3 |
| CHS 473 | The Chicana/o and Social Institutions | 3 |
| CHS 497 | Senior Seminar in Chicana/o Studies | 3 |

#### UPPER DIVISION ELECTIVES (12 UNITS)

Select six units from the following:

| CHS 351 | Survey of Mexican Philosophical Thought | 3 |
| CHS 401 | Pre-Cuauhtemoc Meso-American Civilization | 3 |
| CHS 432 | Counseling the Chicana/o Child | 3 |
| CHS 470 | Cultural Differences and the Chicana/o | 3 |

Select an additional six units of upper division courses with the approval of the advisor.

**TOTAL UNITS IN THE MAJOR (33 UNITS)**

### OPTION III: CREDENTIAL MAJOR

Students seeking a teaching credential in conjunction with an emphasis in Chicana/o Studies should consult the section in this catalog on Credential Programs which lists the requirements in Social Science: Chicano Studies.

#### GENERAL EDUCATION

The units will vary; students should consult with an undergraduate advisor.

#### TITLE 5

The units will vary; students should consult with an undergraduate advisor.

**TOTAL UNITS REQUIRED FOR DEGREE: 124**

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## THE MINOR

### LOWER DIVISION REQUIRED COURSES (9 UNITS)

| CHS 100 | Chicana/o Culture | 3 |
| CHS 201 | Survey of Mexican Lit. in Translation | 3 |
| CHS 270 | Field Work in Barrio Studies | 3 |

### UPPER DIVISION REQUIRED COURSES (9 UNITS)

| CHS 351 | Survey of Mexican Philosophical Thought | 3 |
| CHS 445 | The History of the Chicana/o | 3 |
| CHS 453 | Ideology, Theory, and the Chicana/o Experience | 3 |

### UPPER DIVISION ELECTIVES (6 UNITS)

Elective in upper-division Chicana/o Studies are to be selected with the advice and approval of the advisor.

**TOTAL UNITS IN THE MINOR (25 UNITS)**

#### REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN CHICANA AND CHICANO STUDIES

#### REQUIREMENTS FOR ADMISSION

A. Requirements for admission to classified status in the program:

1. A bachelor’s degree in Chicana/o Studies or at least twenty-one upper division units in the discipline or the equivalent. (Undergraduate preparation will be reviewed and approved by the Chicana/o Studies Graduate Advisor).

2. A diagnostic assessment of the applicant’s oral and written proficiency in Spanish. The assessment is designed to promote and encourage proficiency in Spanish in preparation for the exit exam.

3. General university requirements for the advancement to classified graduate status and for advancement to candidacy must be met.

B. FOR THE DEGREE:

1. A minimum of 30 units of approved graduate work comprised of the following:
   b. An additional 18 units of 500-level courses in Chicano Studies.
   c. Nine units of approved 400 or 500 level courses in Chicano Studies. (Six of these 9 units may be taken outside the department with prior approval of the candidate’s advisor).

2. A comprehensive written and oral examination, thesis or project in the discipline of Chicana/o Studies.

3. Demonstrated verbal and written proficiency in Spanish.
COURSE LIST

LOWER DIVISION

095. WRITING SKILLS LABORATORY (1 UNIT UNIVERSITY CREDIT; NO CREDIT TOWARD GRADUATION.)
A supervised individual study workshop in writing skills designed primarily for students enrolled in Chicano/o Studies 097 and 098 whose class performance and preliminary writing samples indicate the need for additional academic support. Available on CR/NC basis only.

097. DEVELOPMENTAL READING (3 UNITS UNIVERSITY CREDIT; NO CREDIT TOWARD GRADUATION.)
An intensive course designed to develop basic reading and writing skills for students whose EPT scores are below 141. The course develops the analytical skills necessary for university level reading and introduces the writing fundamentals necessary to meet the challenge of college writing. Students must successfully complete this course before enrolling in Chicano Studies 098. Available on CR/NC basis only.

098. BASIC COMMUNICATION SKILLS (3 UNITS UNIVERSITY CREDIT; NO CREDIT TOWARD GRADUATION.)
A basic writing course designed for students whose English Placement Test scores were between 142 - 150 or those who have successfully completed 097. An emphasis will be placed on the development of sentences, paragraphs and essays using various composition strategies, and intensive practice in grammar, punctuation, and other mechanics involved in the writing process. Students must successfully complete 098 before enrolling in Chicano Studies 101 or 102. Available on CR/NC basis only.

100. CHICANA/O CULTURE (3)
An introductory study of cultural, economic, educational, and political issues as they impact the Chicana/o in the U.S. The course will include a study of the contributions that Chicanas and Chicanos have made in these areas. (Available for General Education, Comparative Cultural Studies.)

101. SPANISH FOR CHICANAS/OS (5)
Basic instruction and drill in spoken and written formal Spanish for students who already have some comprehension of and fluency in the language. The course is also designed to increase the knowledge of Spanish acquired in the home environment. Emphasis is placed on improving pronunciation, expanding vocabulary, and enhancing mastery of grammatical patterns. (Available for General Education, Comparative Cultural Studies.)

102. SPANISH FOR CHICANAS/OS (5)
Continuation of CHS 101. Intermediate course in spoken and written Spanish intended for students who already possess some comprehension of and fluency in the language. Emphasis on oral expression and written composition. (Available for General Education, Comparative Cultural Studies.)

111. THE CHICANA/O AND THE ARTS (3)
A survey of Chicana/o visual art, music and drama and their role in Chicana/o culture. The course offers an historical approach to Chicana and Chicoan contributions in the arts. (Available for General Education, Humanities.)

121. CHICANA/O POETRY (3)
A study of major Chicana/o poets. Critical and analytical methods will be applied to the poetry read and discussed in the class. Student poetry will also be the subject for discussion and analysis.

151. FRESHMAN SPEECH COMMUNICATION (3)
Prerequisite: EPT score of 151 or better, or EPT and a grade of Credit in 097 and/or 098, if appropriate. An examination of the principles essential to effective verbal communication skills through the study and practical application of basic speech forms. Attention will be given to individual and group communication activities designed to improve one’s ability to organize, reason critically and to listen effectively. Students will be required to give speeches. Students will receive credit for only one course chosen from CHS 151, PAS 151, and COMS 151. (Available for General Education, Basic Subjects.)

155. FRESHMAN COMPOSITION (3)
Prerequisite: EPT score of 151 or better, or EPT and a grade of Credit in 097 and/or 098, if appropriate. A course in written English using critical reasoning, rhetorical structure, and an analysis of prose to provide practice in expressing ideas through expository prose. Students will receive credit for only one course chosen from Chicano Studies 155, English 155, or Pan African Studies 155. (Available for General Education, Basic Subjects.)

197. WORKSHOP IN WRITING SKILLS (1)
Supervised individual study for Chicana/o students in writing skills.

201. SURVEY OF MEXICAN LITERATURE IN TRANSLATION (3)
Prerequisite: Completion of the lower division writing requirement. A comprehensive overview of the literary heritage of Mexico from pre-Colombian times to the present. It will include an analysis of its historical, technical and lyrical dimensions and its relationship with other Hispanic literature in order to develop a critical appreciation of literary art. (Available for General Education, Humanities.)

202. RACE, RACISM, AND CRITICAL THINKING
Pre-requisite: Completion of the lower division writing requirement. Introduction to the process of critical thinking through the lens of race-based theories and selected historical and contemporary discourse of African Americans, Asian Americans, and Chicanos/Latinos on race relations and multiculturalism in American society. Examines contemporary social issues through the use of scholarly studies and a range of cultural texts in order to explore the effects of race and racism on the relationship between language and logic, processes and forms of reasoning, and practices of critical reflection. Emphasis will be placed on the Chicano-Latino racial experience in contemporary America. The intersection of race, gender, and class will also be examined. (Available for General Education, Section A2: Critical Reasoning, Basic Subjects.)

214. GUITAR MUSIC OF THE SOUTHWEST AND MEXICO (3)
Designed to develop the fundamental skills for guitar. It will incorporate the study of various regional musical styles of the Southwest and Mexico. The course is offered for Credit/No Credit only.

215. REGIONAL MUSIC OF THE SOUTHWEST & MEXICO (3)
Prerequisite: Chicana/o Studies 214. Advanced study of regional music styles of Mexico and the Southwest. In addition to the guitar, attention is also given to other string instruments in each regional style. The various styles presented are practiced in class. Two hours lecture, two hours laboratory per week.
230. INTRODUCTION TO RESEARCH METHODS IN CHICANA/O STUDIES (3)
Prerequisite: CHS 155. An introduction to research methods and writing skills through class lectures and hands-on assignments requiring the use of basic information sources and tools. The course focuses on the development of basic research strategies and reinforcement of appropriate writing skills necessary to a wide spectrum of research and writing assignments. The course includes an introduction to information sources and search strategies relevant to Chicana/o research.

245. HISTORY OF THE AMERICAS (3)
Comparative analysis of significant political and social events in the U.S.A. from colonial times to the present. Emphasis will be placed upon the historical development of American institutions and ideals as they have been affected by regional dynamics within the United States and by international, socio-political and economic relationships particularly with Latin America. (Meets Title V requirements in American History, Institutions and Ideals.)

246. CONTEMPORARY ISSUES OF THE CHICANA (3)
Using a sociological framework for understanding the contemporary experiences of Mexican American women in the United States, the course focuses on the sexual division of labor in families, the work place, and community. Each section explores the variation and heterogeneity in women's class, ethnic/racial and gender identity. (Available for General Education, Comparative Cultural Studies.)

260. CONSTITUTIONAL ISSUES AND THE CHICANA/O (3)
A study of important constitutional issues and cases that have affected the Chicano community. It will examine how American political institutions, operating under the framework of the U.S. Constitution, have influenced the civil and political rights of Chicanos. (Meets Title V requirement in the Constitution of the United States, and California State and Local Government.)

270. FIELD WORK IN BARRIO STUDIES (3)
Field study observation of selected barrio, institutions and agencies to be conducted under supervision and after preparatory instruction to acquaint the student with the barrio. An Academic Internship course. Available for CR/NC only. (Available for General Education, Applied Arts and Sciences.)

280. WORKSHOP IN MINORITY CREATIVE WRITING (3)
Prerequisite: Completion of the lower division writing requirement. An introductory workshop course in minority creative writing. Students will experiment with the three genres: prose fiction, poetry and drama. In addition, students will have the opportunity to meet and work with distinguished professional minority writers. (Same as ENGL 280, and PAS 280.) Students should consult with the instructor about the semester syllabus, and the minority literature concentration. (Available for General Education, Humanities.)

296. EXPERIMENTAL COURSES IN CHICANA/O STUDIES (3)
Selected topics in Chicana/o Studies with course content to be determined.

306. THE CHICANA/O IN FILMS (3)
Prerequisite: CHS 100. An analysis of the image of the Chicano and Chicana as presented in films and documentaries. The course includes historical background, content analysis and social implications of selected feature films and documentaries. Students will prepare a written analysis of each film viewed.

310. REGIONAL MUSIC OF MEXICO (3)
Prerequisite: completion of the lower division writing requirement. A study of the cultural, instrumental and musical aspects of predominant regional musical styles of Mexico from Pre-Cuauhtemoc to contemporary times. (Available for General Education, Humanities.)

345. HISTORY OF MEXICAN PEOPLES (3)
Prerequisite: Completion of the lower division writing requirement. A history of the development of the Mexican peoples from the beginning of Spanish colonization (1521) to the present. An analysis of the interaction between politics and economics and the factors underlying Mexico's economic underdevelopment will also be presented. (Available for General Education, Social Sciences.)

346. HISTORY OF THE CHICANA/MEXICANA (3)
Prerequisite: Completion of the lower division writing requirement. An appraisal of past and contemporary socio-political and economic contributions by Mexican women and Chicanas to developments in Mexico and in the U.S.A. (Available for General Education, Social Sciences.)

350. RELIGION AND CHICANA/O SOCIETY (3)
Prerequisite: Completion of the lower division writing requirement. A comparative historical study of American Protestantism and Mexican Catholicism and their influence on Chicanas/os in the U.S. There will be an examination of issues involving church, religion and the Chicana/o community including an analysis of the Theology of Liberation and feminist spirituality. (Available for General Education, Humanities.)

351. SURVEY OF MEXICAN PHILOSOPHICAL THOUGHT (3)
Prerequisite: Completion of the lower division writing requirement. A study of the intellectual life of Mexico from its indigenous pre-Colombian roots through the Spanish and European influences up to its own distinctive present-day perspectives and philosophical outlook. (Available for General Education, Humanities.)

360. POLITICAL ORGANIZATIONS OF THE BARRIO (3)
Prerequisite: Completion of the lower division writing requirement. A study of the origin and development of Chicana and Chicano organizations such as the Mexican American Political Association (MAPA), League of United Latin American Citizens (LULAC) and La Raza Unida Party (LRUP), and their role in the electoral process and in the development of the Chicana/o Community. (Available for General Education, Applied Arts and Sciences.)

361. URBANIZATION AND THE CHICANA/O (3)
Prerequisite: Completion of the lower division writing requirement. A study and critical analysis of the Urban Chicano community in the United States. The course includes theory, demography, spatial dynamics, leading economic and political issues, key institution issues, trends, and urban policy and planning. This course is intended for, but not limited to, prospective elementary and secondary school teachers. (Available for General Education, Social Sciences section and for Section B of the Multicultural requirement for credential candidates.)

365. THIRD WORLD WOMEN AND THE CHICANA (3)
Prerequisite: Completion of the lower division writing requirement. A comparison of Chicana and Third World women in the United States and the world community. The effects of colonialism, changes in the mode of production and liberation movements are studied within the United States and the Third World communities. (Available for General Education, Comparative Cultural Studies.)
366. WOMEN IN LATIN AMERICA (3)
Prerequisite: Completion of the lower division writing requirement. A study of the political, economic, social and cultural changes that have affected women in Latin America. Regular written assignments will be required. (Available for General Education, Social Sciences.)

380. CHICANA/O LITERATURE (3)
Prerequisite: Completion of the lower division writing requirement. This course is a study of major Chicano/o writers. It includes an analysis of Chicano novels, short stories, theater and poetry. Students will develop analytical skills through class discussions, written assignments and readings. (Available for General Education, Humanities.)

381. CONTEMPORARY CHICANA LITERATURE (3)
Prerequisite: Completion of the lower division writing requirement. A course designed to introduce students to the literature produced by contemporary Chicana writers. Reading and discussion of narrative works, poetry and drama as well as socio-historical criticism, literary theory and biography. Socio-critical and textual analysis. Regular written assignments will be required. (Available for General Education, Humanities.)

390. ALTERNATIVE CHICANO PRESS (3)
Prerequisite: Completion of the lower division writing requirement. The course includes techniques of planning, writing, editing, designing and the publishing of an alternative newspaper. There will be an analysis of the Chicana/o Press and the role of Chicanas/os in the mass media. (Available for General Education, Applied Arts and Sciences.)

396. EXPERIMENTAL COURSES IN CHICANA/O STUDIES (3)
Selected topics in Chicano Studies with course content to be determined.

401. PRE-CUAUHTEMOC MESO-AMERICAN CIVILIZATIONS (3)
A general survey of civilized life in Mexico and Central America prior to 1519. The course examines the Mesoamerican variant of World civilization and directs special attention to the societies of central Mexico during the 13th-16th centuries.

405. CHICANAS/OS AND THE MEDIA (3)
An analysis of the portrayal of Chicanas and Chicanos in the media including newspapers, magazines, television, film and advertising. An examination of sources and techniques of reporting events in the barrio will also be studied. Field study will be included and is designed for the non-professional student.

413. PRACTICUM IN MEXICAN AMERICAN CHORAL MUSIC (3)
This course will study, disseminate and perform musical repertoire characteristic of classical, traditional and contemporary Chicana/o songs as well as develop a variety of performances appropriate to the cultural materials at hand. Corridos, mariachis, and ranchera styles and certain Indian songs will be learned by the group and the intricacies of appropriate solo.

414. DANCE OF MEXICO I (3)
An introduction to selected dance forms representative of diverse regions of Mexico. Emphasis is placed on basic dance techniques, mastery of characteristic foot work as well as a study of the historical development of dance.

415. DANCE OF MEXICO II (3)
An advanced study of Mexican regional dance forms. The course will focus on further investigation of the varied and complex dances and their historical background. 1 hour lecture, 4 hour activity.

416. CHILDREN'S SONGS AND GAMES (3)
Prerequisite: Chicano Studies 100. The development of fundamentals and principles for selecting, evaluating and performing songs and games for bilingual Chicana/o and other Latina/o children. Includes historical survey as well as performance of songs and games suitable for young bilingual children. Suggested concurrent enrollment in Mexican Dance I or II.

430. THE CHICANA/O CHILD (3)
A review of the cognitive, affective and psychomotor development of Chicana/o and Latino children. It will examine patterns of school adjustment and achievement of Chicana/o and Latina/o children and other language minority students. The course will explore the sociocultural and linguistic aspects of learning and current theoretical frameworks and standards of implementation related to programs for language minority students. (Available for Section A of the Multicultural Requirement for Credential Candidates.)

431. THE CHICANA/O ADOLESCENT (3)
Prerequisite: Completion of lower division writing requirement. The patterns of selection, innovation and recreation of ethnic and gender identity and theories of adolescent formation will be explored among Chicana/o and other Latino adolescents. Field work/observation and regular written assignments required. This course is particularly intended for prospective elementary and secondary school teachers. (Available for Section A of the Multicultural Requirement for Credential Candidates.)

432. COUNSELING THE CHICANA/O CHILD (3)
Prerequisite: Completion of lower division writing requirement. An overview of social, cultural and educational factors that impact the psychological development of Chicana/o and other Latina/o children. The course will study the nature of psychological issues associated with the immigrant and acculturation process and the role of the teacher, counselor and family in dealing with these issues. This course is intended primarily for prospective teachers and school counselors at the elementary and secondary school levels and is a viable option for those seeking either a teaching or a counseling credential. (Available for Section A of the Multicultural requirement for credential candidates.)

433. LANGUAGE ACQUISITION OF THE CHICANA/O AND ESL SPEAKERS (3)
Prerequisite: Completion of lower division writing requirement. An overview of social, educational and linguistic factors that influence language development among Chicanas/os and other language minority children in the U.S. The course includes a contrastive analysis of sociolinguistic variables encountered among Chicana/o and other immigrant language groups in Southern California. (Available for Section C of the Multicultural requirement for credential candidates.)

445. HISTORY OF THE CHICANO (3)
A history of the Mexican people in the United States presented in the context of American history and government. An examination is made of American institutions and ideals as developed by the framers of the U.S. and California Constitutions, and how they have affected the role of the Mexican American in U.S. society. (Meets Title V requirements for Constitution of the United States, and California State and Local Government.)
453. IDEOLOGY, THEORY & THE CHICANA/O EXPERIENCE (3)
A study of contemporary political, social, and cultural ideologies and theories and their relationship to the Chicana/o experience in the U.S. Emphasis will be placed on ideologies and theories developed by Chicanas and Chicanos. Questions on the role of praxis, democracy, and the transformation of society will also be examined.

460. POLITICS OF THE CHICANA/O (3)
A critical study of Chicana/o issues, organizations, political models, participation, behavior, and the electoral process in the United States. It will include an examination of race, gender, and class dynamics and their relationship to Chicana/o Politics.

465. THIRD WORLD POLITICS AND THE CHICANA/O (3)
This course will examine the relation that exists between Third World nations and the Chicana/o. It will study the historical basis for this relationship and discuss the issues that are important today.

470. CULTURAL DIFFERENCES AND THE CHICANA/O (3)
Prerequisite: Completion of the lower division writing requirement. The study of the processes, effects and possible causes of social and cultural differences and conflicts among Chicanos. It includes a study of preventive measures and plans to ameliorate the situation. This is a course that is intended primarily for elementary and secondary school teachers. (Available for Section B of the Multicultural requirement for credential candidates.)

471. CHICANO FAMILIES (3)
Prerequisite: Completion of the lower division writing requirement. An overview of demographic, social, cultural and historical perspectives of Chicano families in the U.S. The course will critique social science stereotypes of Chicano families and contrast these with contemporary profiles of diverse family types. A Family History project and other writing assignments are required. This course is intended for prospective elementary and secondary school teachers. (Available for Section B of the Multicultural requirement for credential candidates.)

473. THE CHICANA/O AND SOCIAL INSTRUCTIONS (3)
Prerequisite: Completion of the lower division writing requirement. A study of the interaction between the Chicano Community and the educational and social institutions of the dominant society. Topics such as institutional racism, segregation, and abuse of authority will be analyzed along with a focus on the Chicano community’s organized attempts to advocate for their values and interests. Intended for, but not limited to, prospective elementary and secondary teachers. Regular writing assignments will be required. (Available for Section B of the Multicultural requirement for credential candidates.)

482. LANGUAGE OF THE BARRIO (3)
Prerequisite: Completion of the lower division writing requirement. An examination of the origin and current features of informal spoken Spanish in the Southwestern U.S. It includes an analysis of common colloquial forms, slang, profanity, and code-switching. The course also addresses English usage among Chicanas/os. (Available for Section C of the Multicultural requirement for Credential Candidates.)

486A. NAHUATL I (3)
A study of the basic structures of the Nahuatl Language as it is reflected in written manuscripts. Phonology, syntax, and lexicon of Classic Nahuatl will be examined with the purpose of enabling the student to translate passages from primary sources.

486B. NAHUATL II (3)
Prerequisite: 486A. The intermediate course in Nahuatl covers more complex structures not included in the first course. Passages from classical prose and poetry will be read and translated with interest directed at basic language training. Emphasis will be given to the development of the ability to read selections from various Nahuatl documents.

496A-Z. EXPERIMENTAL COURSES IN CHICANO STUDIES (3)

497. SENIOR SEMINAR IN CHICANA/O STUDIES (3)
Prerequisite: Senior standing or the consent of the instructor. An integrative seminar serving as a capstone to the interdepartmental major in Chicano Studies. Intensive study of selected topics relating to the Chicana/o and the preparation of papers by members of the class.

499. INDEPENDENT STUDY (1-3)

GRADUATE

500. SEMINAR IN CHICANA/O STUDIES (3)
Prerequisite: Graduate standing. Investigation of the various disciplines which comprise Chicana/o Studies, e.g., history, literature, etc. A study of methods and techniques of research used in the various disciplines and their application to Chicana/o Studies will be included.

501. SEMINAR IN THE SOCIAL SCIENCES AND THE CHICANA/O (3)
Prerequisite or Corequisite: Chicana/o Studies 500. A Seminar in the methods of analysis and writing of the social sciences, review of the major works written by social scientists on the Chicana/o, with a critical evaluation of the racial, cultural, and environmental models used to study the Chicana/o. The student will survey and evaluate social science research as well as participate in a research design.

502. SEMINAR IN THE HUMANITIES AND THE CHICANA/O (3)
Prerequisite or Corequisite: Chicano Studies 500. A seminar in the humanities, comparing the Western European tradition with that of Meso-America. A study of theories of aesthetics and philosophies from both perspectives and their influence on current Chicana/o thought, literature and folklore. Particular emphasis will be placed on the various approaches to literary analysis of the different literary genres.

503. SEMINAR ON CHICANA/O AND THE ARTS (3)
Prerequisite or Corequisite: Chicano Studies 500. A Study of the music, drama, and graphic arts produced by Chicanas/os as an expression of the Chicana/o experience in the United States. The course will emphasize Chicana/o artistic expression which has its roots and inspiration in Mexican art forms, often combined with United States or European influences.

505. ADVANCED FIELD WORK IN THE BARRIO (3)
The course is for advanced field study. The student will be exposed to rigorous analysis of behavioral studies of the Chicano community and techniques in field work.

506. STUDIES IN THE EDUCATION OF THE CHICANA/O (3)
Prerequisite or Corequisite: Chicano/a Studies 500. An evaluation of the American educational system. It will emphasize school organizational structure, administrative theory and application, multicultural curriculum and instruction, parent involvement and community relations. The course is also designed to give graduate students an opportunity to explore strategies for promoting change in our educational institutions to benefit Chicana/o and other language minority students.
560. SEMINAR IN CHICANA/O POLITICS (3)
Prerequisite: CHS 500. Advanced comprehensive study of Chicana/o politics which includes political models, issues, ideologies, organizations, participation, behavior, and the electoral process. Attention will be given to race, gender, class, and sexual orientation dynamics. Applied qualitative and quantitative research will be an integral part of the course.

584. THE NOVEL OF THE MEXICAN REVOLUTION (3)
Prerequisite: Spanish 104 or consent of the instructor. A study of and text analysis of selected novels which describe the revolutionary struggle during the years 1910-1915 and the profound changes which the revolution produced in Mexican society. Also emphasized will be the novelists’ disillusion with many of the revolutionary governments. Conducted in Spanish. (Same as Spanish 484.)

587. THE CONTEMPORARY MEXICAN NOVEL (3)
Prerequisite: Spanish 104 or consent of the instructor. A study of the recent trends in the Mexican novel through the reading of selected works by the best-known contemporary Mexican male and female novelists. Conducted in Spanish. (Same as Spanish 587.)

595A-Z. SPECIAL TOPICS IN CHICANA/O STUDIES (3)
Prerequisite or Corequisite: Chicana/o Studies 500. In-depth study of special topics in the discipline of Chicana/o Studies with course content to be determined each semester.

597. DIRECTED COMPREHENSIVE STUDIES (1-3)

599. INDEPENDENT STUDY (1-6)
Prerequisite: Graduate status. Investigation of a significant problem in Chicana/o Studies. Project selected in conference with graduate faculty sponsor prior to enrollment.

697. DIRECTED COMPREHENSIVE STUDIES (3)
Requirement for comprehensive examination. To be taken in final semester. Enrollment is required in the semester in which the comprehensive examination is taken.

698. THESIS OR GRADUATE PROJECT
Prerequisite: Classified graduate status and the consent of graduate advisor. Enrollment is required in the semester in which the thesis or project will be completed.
### DEGREES OFFERED

- Bachelor of Arts Degree

### REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

#### LOWER DIVISION REQUIRED COURSES (7 UNITS)

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>Math 140</td>
<td>Introductory Statistics</td>
<td>4</td>
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<td>BIOL 281</td>
<td>Human Physiology</td>
<td>3</td>
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<tr>
<td>PSY 250</td>
<td>Physiological Correlates, Human Behavior</td>
<td>3</td>
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#### UPPER DIVISION REQUIRED COURSES (7-9 UNITS)

For Child Development (7-9 units):

- Select one of the following:
  - FES 330: Child Growth & Development I
  - FES 335: Prenatal & Infant Development
  - PSY 413: Current Trends in Child Psychology

For Child, Family and Community Relations (3 units):

- Select one of the following:
  - ANTH 305: Individual and Culture
  - ANTH 308: Women, Sex Roles, and Culture
  - FES 432: Child in the Family
  - SOC 459: Child Welfare
  - SOC 305: Culture and Personality

#### CREATIVE EXPERIENCES FOR CHILDREN (9 UNITS)

- Select three of the following:
  - ART 383: Art in Early Childhood
  - CH S 480: Children's Literature of Latin America in Translation

### ELECTIVES (12 UNITS)

With consultation and approval from an adviser, the student will select twelve units of elective coursework. Students may elect to choose all units in one of the approved disciplines or from several disciplines; career goals should determine which elective courses are selected. Information regarding electives is available in the Child Development Office.

### TOTAL UNITS IN THE MAJOR: 52-53

### GENERAL EDUCATION OVERLAP

The following child development major courses overlap with General Education:

- Section A (Basic Subjects) MATH 140; Introductory Statistics (4 Units)
- Section D (Social Sciences) ANTH 305, Individual and Culture (3 Units); SOC 305, Culture and Personality (3 Units)
- Section E (Applied Arts and Sciences) CD 361, Language Development in Children (3 Units)
- Section F2 (International Cross Cultural Studies) ANTH 308, Women, Sex Roles and Culture (3 Units)

The 12 units of electives may also include overlap with General Education Courses.

### TITLE 5 (6 UNITS)

- The units remaining provide the opportunity to complete a minor.

### TOTAL UNITS REQUIRED FOR DEGREE: 124

#### CHILD DEVELOPMENT

Completion of the Childcare Administration Minor meets the academic requirement for individuals who wish to teach or administer daycare programs in facilities that are licensed by the State of California Department of Social Services under the Community Care Licensing Provisions of Title 22 of the State Administrative Code. Such programs may provide infant care, preschool care and/or after-school care in group settings. The Minor may also be applied toward completion of the Regular Children’s Center Instructional Permit.

Students wishing to declare the minor should contact Alyce Blackmon at (818)677-3051. For course requirements, see Family Environmental Sciences section of this catalog.
COURSE LIST

UPPER DIVISION

390. PROSEMINAR IN CHILD DEVELOPMENT (3)
The Junior Proseminar is designed to present an overview of professional opportunities in child development through observations, participation in fieldwork, guest speakers, and written assignments. Through an increased understanding of themselves, students will establish professional goals based upon abilities and interests. The student must earn a grade of "C" or better in this course in order to enroll in CDEV 490.

390SEE. FIELDWORK IN CHILD DEVELOPMENT (1)
Corequisite: Concurrent enrollment in CDEV 390. Practical experience in a fieldwork setting to provide an opportunity to explore career options appropriate to individual needs, interests, and professional goals. Fieldwork placements are individually determined in cooperation with the instructor from the following settings: schools, recreational programs, clinics, medical settings, parent-education programs, and social service agencies. This is an Academic Internship course. Only agencies which have a contract with Child Development may be used. Credit/No Credit only.

406/L. ENHANCING CHILDHOOD CREATIVITY
Prerequisite: Completion of the Lower Division Writing Requirement, PSY 150, and a course in child growth and development. An integrative seminar and laboratory experience focusing on the theoretical approaches for enhancing childhood creativity. The uses of play and fantasy will be explored as the means for developing programs that are child oriented. Regular written assignments will be required. (Same as LSRC 406/L.)

450. HELPING CHILDREN COPE WITH MEDICAL ENVIRONMENTS (3)
Prerequisites: Health Science 435, Recreation 305, and a course in child growth and development. The developmental impact of illness, disability and hospitalization on children and youth will be studied. Methods used by child development specialists to help children cope with the emotional stress of ill health and disability will be presented.

451. ALTERNATIVE APPROACHES TO DISCIPLINE (3)
Prerequisite: Child Development 390. Investigation of literature on discipline in child development settings. Practical and theoretical approaches will be related and integrated.

452. CHILD ADVOCACY AND THE CHILD DEVELOPMENT PROFESSIONAL (3)
Prerequisite: CDEV 390 or consent of instructor. This course is designed to increase student knowledge of local, state and national advocacy organizations and their influence on public policy. Focus is on the individual child development professional's role as a child advocate.

490. SEMINAR IN CHILD DEVELOPMENT (3)
Prerequisite: Child Development 390. The Senior Seminar is a culminating experience for the child development major. It is designed to synthesize the broad concepts of the profession, deal with issues and problems in Child Development, and provide the opportunity to strengthen competencies needed to achieve personal goals.

490SEE. FIELDWORK IN CHILD DEVELOPMENT (1)
Corequisite: Concurrent enrollment in CDEV 490. Application of theory to practice in analyzing a program involving children or adolescents. Fieldwork placements are individually determined in cooperation with the instructor from the following settings: schools, recreational programs, clinics, medical settings, parent-education programs, and social service agencies. This is an Academic Internship course. Only agencies which have a contract with Child Development may be used. Credit/No Credit only.

499. INDEPENDENT STUDY (1-3)
CLASSICAL GREEK AND ROMAN CIVILIZATION
(Interdisciplinary Minor)
Coordinator: John P. Adams

COLLEGE OF HUMANITIES
Phone: (818) 677-3459, (818) 677-3467.

ADVISORS: Advisement is available from either the coordinator of the program or from members of the Program Committee (listed below).

PROGRAM COMMITTEE: John P. Adams (Coordinator), James Goss (Religious Studies), Cindy Stern (Philosophy), Frank Vatai (History), Birgitta Wohl (Art History).

DEGREES OFFERED: Minor in Classical Greek and Roman Civilization.

THE MINOR: A minor in Classical Greek and Roman Civilization is of interest and value to students who are studying Anthropology, Art History, Drama, English, History, Humanities, Philosophy, Political Science, Religious Studies, and Speech Communication. A student who decides to minor in Classical Greek and Roman Civilization is required to meet with an advisor or the coordinator to plan her/his program. All courses in this program are conducted in English; a knowledge of Latin and Greek is not required. Students interested in a Special Major (B.A.) in Classical Greek and Roman Civilization should consult this catalog under Special Major.

REQUIREMENTS FOR THE MINOR

LOWER DIVISION REQUIRED COURSES (9 UNITS)
- FLIT 150 Gateways to Western Civilization................... 3
- ART 110 History of Western Art, I................................... 3
- PHIL 201 Ancient Philosophy............................................ 3

UPPER DIVISION REQUIRED COURSES (18 UNITS)
Select THREE courses (9 units) from each of the following two categories for a total of 18 units.

I. Literature and Religion
Select two from the following:
- CLAS 315 Greek and Roman Mythology....................... 3
- FLIT 423 Greek and Roman Epic in Translation................ 3 (Same as English 423)
- FLIT 480 Greek and Roman Literature......................... 3 (Same as English 480)

Select one from the following:
- TH 422 Theatre and Drama of Greece and Rome............ 3
- FLIT 424 Drama of Greece and Rome............................ 3 (same as English 424)

II. Art History, History, Philosophy
- ART 420 Greek Art and Architecture*....................... 3
- ART 421 Roman Art and Architecture*........................ 3
- HIST 410 The Ancient Greek World*........................ 3
- HIST 411 The Roman World*........................................ 3
- HIST 497A Proseminar in Ancient History*.................. 3
- PHIL 401 Advanced Ancient Philosophy*..................... 3

The following recommended, but not required courses, will contribute to an understanding of classical Greece and Rome.
- CLAS 101, 102, 201, 202............................................. 3 each
- HIST 150 Western Civilization..................................... 3
- HIST 293 Themes in Western Civilization..................... 3
- Latin 101, 102, 201, 202............................................. 3 each
- POLS 111 Greek, Roman & Medieval Political Theory........ 3

TOTAL UNITS IN THE MINOR (27 UNITS)

CLASSICS
See Modern and Classical Languages and Literatures.

* All asterisked courses have prerequisites which may be waived by the instructor for students in this program.
COMMUNICATION STUDIES
Chair: Don Brownlee (Interim)

COLLEGE OF ARTS, MEDIA, AND COMMUNICATION
Department Office: Speech Comm. Bldg., Room 207
Phone: (818) 677-2853
Secretary: Nicole Stambolis

FACULTY: Bernardo Attias, Elizabeth Berry, Don Brownlee, Ann Chisholm, Alan Harris, James Hasenauer, Paul Krivonos (Chair), Rebecca Litke, Christie Logan, Peter Marston, Gordon Nakagawa, William Shefield, Kathryn Sorrells

FACULTY EMERITUS: Donald Cameron, James Cleary, William Freeman, Mary McEdwards, Fred McMahon, Charles Mudd, Donald Salper, Leonard Wurthman

UNDERGRADUATE ADVISORS: All full-time faculty serve as undergraduate advisors.

GRADUATE ADVISOR: Christie Logan

DEGREES OFFERED: B.A. in Speech Communication and M.A. in Communication Studies--but it's not the only reason.

ACADEMIC ADVISEMENT: Advisement is available during faculty office hours. Students interested in Option IV may secure more information from the Professor Elizabeth Berry.

THE MAJOR: Communicating well and understanding the communication process are essential to professional success in many fields: law, business, teaching, advertising, sales, and government among them. People communicate to influence, to persuade, and to express. Learning to communicate effectively is one important reason for majoring in Communication Studies--but it's not the only reason.

REQUIREMENTS IN MAJOR FOR BACHELOR OF ARTS DEGREE

OPTION I:

DEPARTMENT CORE REQUIREMENTS (15 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 301</td>
<td>Performance, Language, and Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMS 321</td>
<td>Rhetorical Discourse</td>
<td>3</td>
</tr>
<tr>
<td>COMS 327</td>
<td>Rhetorical Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMS 351</td>
<td>Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>COMS 356</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

COMMUNICATION CONTEXTS (3 UNITS)

Select 3 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 303</td>
<td>Narrative in Performance</td>
<td>3</td>
</tr>
<tr>
<td>COMS 309</td>
<td>Advanced Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMS 325</td>
<td>Legal Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>COMS 430</td>
<td>Rhetorical Criticism</td>
<td>3</td>
</tr>
</tbody>
</table>

COMMUNICATION AND MEANING (3 UNITS)

Select 3 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 443</td>
<td>Rhetoric in Business</td>
<td>3</td>
</tr>
<tr>
<td>COMS 451</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMS 453</td>
<td>Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMS 454</td>
<td>Communication and Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

COMMUNICATION AND CULTURE (3 UNITS)

Select 3 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 345</td>
<td>Perspectives in American Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>COMS 360</td>
<td>Communication and the Sexes</td>
<td>3</td>
</tr>
<tr>
<td>COMS 435</td>
<td>Rhetoric of Women</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVES (15 UNITS)

Select 15 units of upper division courses in Communication Studies and/or from approved electives in other departments. At least six of these units must come from courses in the Department of Communication Studies.

TOTAL UNITS IN OPTION I (42 UNITS)

GENERAL EDUCATION (52 UNITS)

TITLE 5 (6 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 124

OPTION II: NO LONGER AVAILABLE

OPTION III: INTERDISCIPLINARY MAJOR

CORE REQUIREMENTS (18 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 301</td>
<td>Performance, Language, and Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMS 321</td>
<td>Rhetorical Discourse</td>
<td>3</td>
</tr>
<tr>
<td>COMS 327</td>
<td>Rhetorical Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMS 351</td>
<td>Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 100</td>
<td>Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 210</td>
<td>Television-Film Aesthetics</td>
<td>3</td>
</tr>
</tbody>
</table>

INTERPRETATION AND CRITICISM (6 UNITS)

Select 6 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 303</td>
<td>Narrative and Performance</td>
<td>3</td>
</tr>
<tr>
<td>COMS 404</td>
<td>Theories of Literature in Performance</td>
<td>3</td>
</tr>
<tr>
<td>COMS 430</td>
<td>Rhetorical Criticism</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 309</td>
<td>Film as Literature</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 319</td>
<td>Criticism in Radio, TV, and Film</td>
<td>3</td>
</tr>
</tbody>
</table>

COMMENTS ON DEGREES PROVIDED

1990’s: public relations, advertising, social and human services, international relations and negotiations, media, arts and entertainment, law, government, health care, and education.
COMMUNICATION AND CULTURAL STUDIES (6 UNITS)
Select 6 units from the following:

- COMS 345 Rhetoric of Popular Culture..........................3
- COMS 356 Intercultural Communication........................3
- JOUR 371 Women and the Media..................................3
- JOUR 372 Diversity and the Media.................................3
- JOUR 465 Mass Communication & Popular Culture.............3
- RTVF 400 Media and Society.......................................3

COMMUNICATION AND TECHNOLOGY (6 UNITS)
Select 6 units from the following:

- COMS 454 Communication and Technology....................3
- COMS 315 New Directions in Electronic Media Systems........3
- COMS 384 Electronic Media Advertising........................3

COMMUNICATION AND SOCIAL CONTROL (6 UNITS)
Select 6 units from the following:

- COMS 325 Legal Argumentation ..................................3
- JOUR 390 Freedom of the Press....................................3
- JOUR 400 Law of Mass Communication..........................3
- RTVF 487 Social Control and Regulation of Electronic Media...3

ELECTIVES (6 UNITS)
Select 6 units of upper division courses in Communication Studies and/or from courses not used from the divisional requirements listed above.

TOTAL UNITS IN OPTION III (48 UNITS)
GENERAL EDUCATION (52 UNITS)
TITLE 5 (6 UNITS)
TOTAL UNITS REQUIRED FOR DEGREE: 124

OPTION IV: ENGLISH/COMMUNICATION CREDENTIAL PREPARATION

DEPARTMENT CORE REQUIREMENTS (15 UNITS)

- COMS 301 Performance, Language, and Cultural Studies ......3
- COMS 321 Rhetorical Discourse.................................3
- COMS 322 Group Communication.................................3
- COMS 327 Rhetorical Studies.....................................3
- COMS 356 Intercultural Communication........................3

COMMUNICATION STUDIES ELECTIVES (9 UNITS)
Select 3 units from the following:

- COMS 151/L Fundamentals of Public Speaking..................3
- COMS 225/L Strategies of Argumentation.......................3

Select 3 units from the following:

- COMS 303 Narrative in Performance.............................3
- COMS 304 Poetry in Performance................................3

Select 3 units from the following:

- COMS 320 Communicative Functions of Language..............3
- COMS 420 Language and Symbolic Processes...................3

ENGLISH REQUIREMENTS (15 UNITS)

- ENGL 258 Major English Writers I.............................3
- ENGL 259 Major English Writers II..............................3
- ENGL 275 Major American Writers...............................3
- ENGL 429 Literature for Adolescents............................3
- ENGL 495A-Z Senior Seminar in Literature....................3

ENGLISH ELECTIVES (6 UNITS)
Select 3 units from the following:

- ENGL 311 History of African-American Writing..............3
- ENGL 314 North American Indian Literature..................3
- ENGL 371 Issues in Jewish American Writing................3
- ENGL 431 Images of Women in Literature.....................3

COMMUNICATION STUDIES 193

ENGL 433 Women Authors.....................................3
ENGL 434 19th-Century Women Novelists......................3

[This elective may also be fulfilled by selecting an appropriate experimental topics course in English or other departments, such as AAS 321, CH S 380, CH S 381, PAS 344, or PAS 346. Course selection should be done in consultation with an English Department credential advisor.]

Select 3 units from the following:

- ENGL 380 Mark Twain...........................................3
- ENGL 414 Chaucer.................................................3
- ENGL 416 Shakespeare: Selected Plays........................3
- ENGL 417 Shakespeare: A Survey.................................3
- ENGL 418 English Drama to 1642................................3
- ENGL 419 English Drama 1660-1880............................3
- ENGL 420 Milton....................................................3
- ENGL 422 Dickens..................................................3
- ENGL 427 Drama from Ibsen to the Present....................3
- ENGL 432 Tennessee Williams and D. H. Lawrence .......3
- ENGL 443 English Literature of the Middle Ages...........3
- ENGL 449 The English Renaissance............................3
- ENGL 452 The Early Seventeenth Century.....................3
- ENGL 456 The Age of Enlightenment............................3
- ENGL 458 The Romantic Age....................................3
- ENGL 460 The Victorian Age....................................3
- ENGL 461 Modern British Literature..........................3
- ENGL 462 Contemporary British Literature..................3
- ENGL 463 A Modern Poetry.....................................3
- ENGL 464 B Contemporary Poetry..............................3
- ENGL 466 Major British Novelists I: 1700-1815............3
- ENGL 467 Major British Novelists II: 1815-1900.............3
- ENGL 468 Major British Novelists III: 1900 to the Present .3
- ENGL 473 American Literature: 1607-1860....................3
- ENGL 474 American Literature: 1860-1912....................3
- ENGL 475 American Literature: 1912-1945....................3
- ENGL 476 Contemporary American Literature...............3
- ENGL 477 Major American Novelists I: The Nineteenth Century....3
- ENGL 478 Major American Novelists II: The Twentieth Century 3

OUTSIDE ELECTIVES (6 UNITS)
Select 3 units from the following:

- RTVF 309 Film as Literature....................................3
- JOUR 465 Mass Communication and Popular Culture........3

[This elective may also be fulfilled by selecting an appropriate upper division English course. Course selection should be done in consultation with an English Department credential advisor.]

Select 3 units from the following:

- TH 310 Theatre in Performance.................................3
- TH 371 Creative Drama............................................3

TOTAL UNITS IN OPTION IV: 51 UNITS
GENERAL EDUCATION (52 UNITS)
TITLE 5 (6 UNITS)
TOTAL UNITS REQUIRED FOR DEGREE: 124

OPTION V: SPECIAL OPTION
The requirements for a Speech Communication major with a special option are (1) a statement of the objectives of the proposed program, (2) at least 42 semester units of which 33 semester units are upper division, (3) more total units in
COMMUNICATION STUDIES 2000-2002

Communication Studies and more upper division units in Communication Studies than in any other discipline, and (4) the evaluation and approval of the proposed program by the Chair and the Undergraduate Studies Committee of the Department of Speech Communication. The students may develop the proposed option by consulting with a faculty member of the Department of Speech Communication. Students must submit proposed option before earning 95 units.

TOTAL UNITS IN OPTION V (42 UNITS)
GENERAL EDUCATION (52 UNITS)
TITLE 5 (6 UNITS)
TOTAL UNITS REQUIRED FOR DEGREE: 124

MINOR
DEPARTMENT CORE REQUIREMENTS: (15 UNITS)
COMS 301 Performance, Language, and Cultural Studies.................................................3
COMS 321 Rhetorical Discourse................................................3
COMS 327 Rhetorical Studies....................................................3
COMS 351 Communication Theory............................................3
COMS 356 Intercultural Communication.......................................3

UPPER DIVISION ELECTIVES (9 UNITS)
Select from upper division courses in Communication Studies as approved by department advisor.
TOTAL UNITS FOR MINOR: 24

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE
University standards for admission to graduate study will normally be a determining factor in granting a student classified status in the program. Department GRE requirements are higher than university criteria. Students with limited background in communication studies will be admitted on a Conditionally Classified basis until preparatory undergraduate coursework (to be determined in consultation with the Graduate Coordinator) has been completed. Any student who is admitted to the graduate program on a Conditionally Classified basis is required to meet ALL conditions for fully Classified status by the end of the student's first semester of enrollment in the graduate program.

FOR THE DEGREE:
1. A minimum of 30 units of approved graduate work comprising the following:
   a. Communication Studies 600: Core Seminar in Communication Studies (3 Units)
   b. Required Seminars (9 Units)
      From the following:
      COMS 603 or COMS 604 or COMS 620
      COMS 631 or COMS 632
      COMS 650 or COMS 651
   c. Electives
      Thesis or Graduate Project Candidates (15 Units)
      Comprehensive Examination Candidates (18 Units)

In consultation with the Graduate Coordinator, this elective coursework may be selected from 400-, 500- and 600-level courses in Communication Studies or related disciplines. No more than 6 units of 400-level course work are permitted as part of the student's 30-unit program.
2. One of the following:
   a. COMS 697 Directed Comprehensive Studies
   b. COMS 698 Thesis or Graduate Project
   c. An oral examination on the written report.

3. Required Culminating Experience
   a. A public presentation of a thesis prospectus, and
   b. An acceptable thesis, and
   c. An oral examination on the thesis.

or

GRADUATE PROJECT
   a. A public presentation of a graduate project prospectus, and
   b. An acceptable written report of the candidate’s application of communication theory and principles to a practical or career problem, and
   c. An oral examination on the written report.

or

COMPREHENSIVE EXAMS
   a. A successful completion of a 2-hour examination in each of the following areas:
      1. Persuasion and Rhetorical Analysis (2 hours);
      2. Communication Theory (2 hours);
      3. Performance, Language, and Cultural Studies (2 hours), and;
   b. An oral examination on the comprehensive exams.

COURSE LIST
LOWER DIVISION
104. LITERATURE IN PERFORMANCE (3)
   Introduction to principles, techniques, and practices in solo performance of poetry, fiction and drama. (Available for General Education, Fine Arts.)

150. PROCESS OF COMMUNICATION (3) (FORMERLY 250)
   Analysis of the contemporary behavioral view of the scope and purposes of human communication, the factors involved in the process, and the role of language in human behavior. (Available for General Education, Applied Arts and Sciences.)

151/151L. FUNDAMENTALS OF PUBLIC SPEAKING (3) (Formerly 155)
   Prerequisite: EPT score of 151 or better. An introduction to the study of the human communication process with an emphasis on effective public communication. The course includes intensive practice in public speaking, reasoning, and critical listening. Fifteen hours of communication experience outside the class are required. Students will receive credit for only one course chosen from CH S 151, PAS 151 and COMS 151. (Available for General Education, Basic Subjects.)

195. FORENSICS (1-1-1-1)
   Supervised activity in competitive intercollegiate forensics.

198. SPEAKER'S BUREAU (1-1-1-1)
   Supervised activity in the various forms of speech communication; observation and experience in speaking to community and college groups.

199. ACTIVITY PROJECTS IN READERS THEATRE (1-1-1-1)
   Supervised activity in group performance of literature; participation in readers theatre programs before campus audiences.
225/225L. ARGUMENTATION (3)
Prerequisite: EPT score of 151 or better. Studies of the strategies used for rhetorical argument; emphasis is given to ways of finding issues, using evidence, and detecting fallacies in rhetorical communications; practice is given in the formulation and critical analysis of argument in rhetorical communications. Fifteen hours of communication experience outside of class are required. (Available for General Education, Basic Subjects.)

UPPER DIVISION

301. PERFORMANCE, LANGUAGE, & CULTURAL STUDIES (3)
Study of the complex relationships among culture, language, and performance in communication. Examination of theory, behavior, practice and criticism from aesthetic and sociocultural perspectives, with emphasis on contemporary research in language, culture, and performance studies.

303. NARRATIVE IN PERFORMANCE (3)
Theory and practice in performing narrative fiction and nonfiction. Analysis of the role of narrative in the communicative life of the individual and society. Solo and group performances.

304. POETRY IN PERFORMANCE (3)
Theory and practice in performing poetry. Analysis of the role of poetry and poetic language in the communicative life of the individual and society. Solo and group performances.

305. CHILDREN’S LITERATURE IN PERFORMANCE (3)
Principles, techniques, and practice in performing children’s literature, including choral reading and story telling. Not allowed for credit in the Communication Studies major.

309. ADVANCED PUBLIC SPEAKING (3)
Prerequisite: COMS 151 or COMS 225. Application of the principles of audience analysis to the preparation, presentation and evaluation of persuasive messages. (Available for General Education, Basic Subjects.)

320. COMMUNICATIVE FUNCTIONS OF LANGUAGE (3)
Study of the form and structure of the language of persuasive discourse, including semantics, syntax, usage, lexicography, and style.

321. RHETORICAL DISCOURSE (3)
Prerequisite: COMS 151 or COMS 225 plus completion of the lower division writing requirement. Study of the language and principles of human communication through the production, analysis, and evaluation of rhetorical messages. Satisfies the Ryan Act requirement for competence in writing.

323. GROUP COMMUNICATION (3)
Prerequisite: Completion of the lower division writing requirement. Principles and methods of small group communication. Development of individual and group skills through application of theory to practice. Emphasis is on intra-group behavior. (Available for General Education, Applied Arts and Sciences.)

325. LEGAL ARGUMENTATION (3)
The study of courtroom argument with emphasis on issues, evidence, forms of argument, and language in lawyers’ pleadings and judicial opinions.

327. RHETORICAL THEORY (3)
Theories of rhetoric from classical Greece and Rome to the present. Critical methodologies inherent in rhetorical theories of each period are applied to typical examples of public discourse of that period.

328. FREEDOM OF SPEECH (3)
An exploration of free-speech problems in contemporary American society in areas such as the following: advocacy of illegal action, obscenity, libel, hostile audiences, and non-verbal communication. Emphasis is given to a consideration of the relationship between the conception of the speech act implied by free speech theory and the conception of the speech act implied by communication theory.

345. RHETORIC OF POPULAR CULTURE (3)
Prerequisite: Completion of lower division writing requirement. Rhetorical analysis of symbolic behavior, with emphasis on twentieth century popular cultural forms. Regular written assignments are required.

350. NONVERBAL COMMUNICATION (3)
Discussion and examination of nonverbal communication and its effects upon the individual’s attitudes and verbal communication.

351. COMMUNICATION THEORY (3)
Survey of multiple theoretical perspectives on the study of human communication. Examination of the relationships among communication theory and other areas of study within the field of speech communication.

356. INTERCULTURAL COMMUNICATION (3)
Prerequisite: Completion of the lower division writing requirement. Cultural factors in interpersonal communication, such as perception, roles, language codes, and non-verbal communication. Students will apply and evaluate theories of intercultural communication. (Available for General Education, Comparative Cultural Studies.)

360. COMMUNICATION AND THE SEXES (3)
Prerequisite: Completion of the lower-division writing requirement. An examination of the communication styles of males and females in a variety of settings. Emphasis is given to gender-related communication behavior and its implications for the ability to maintain effective personal and professional relationships. Strategies for fostering communication competence will be discussed. (Available for General Education, Applied Arts and Sciences.)

400ABC. DIRECTING ORAL PERFORMANCE (1-3)
(Formerly 300ABC)
Faculty-supervised students will direct other students’ oral performances. Available only to upper division students who have completed a minimum of 2 units of any of the following: Speech Communication 195, Forensics; Speech Communication 198, Speaker’s Bureau; or Speech Communication 199, Readers Theatre, and who have the consent of the instructor. May be taken for a maximum of six units.

401. PERFORMANCE AND SOCIAL CHANGE (3)
Prerequisite: COMS 301. Examination and application of contemporary theories of performance as a means of change in individual and communal life. Students will employ performance methodologies to examine complexities of various communication contexts and situations, and enact various strategies for working through these complexities.

404. THEORIES OF LITERATURE IN PERFORMANCE (3)
Prerequisite: COMS 303 or COMS 304 or consent of instructor. Examination of the interacting relationships of literature, interpreter, and audience in the oral performance of various forms of literature. Exploration of psychological,
social, aesthetic, literary, dramatic, and philosophical
dimensions of oral interpretation of literature.

420. LANGUAGE AND SYMBOLIC PROCESSES (3)
Prerequisite: Completion of the lower-division writing
requirement. A study of the structural, psychological, and
semantic facets of language and their implications for the
study of rhetorical communication. Regular written
assignments will be required. (Available for Section C of the
Multicultural Requirement for Credential Candidates.)

421. BUSINESS, PROFESSIONAL AND TECHNICAL
COMMUNICATION (3)
Prerequisite: COMS 151. Study of the techniques and skills
used in business, professional, and technical fields for the
transmission of rhetorical communications. Attention is
given to the use of media, but the emphasis is placed on
public speech presentations and the use of audio-visual
equipment.

425. THEORIES OF ARGUMENT AND DELIBERATION (3)
Exploration of theories of argument and their application to
decision-making.

430. RHETORICAL CRITICISM (3)
Prerequisite: completion of lower division writing
requirement. Instruction in the methods and applications of
rhetorical criticism, focusing upon the analysis and
evaluation of rhetorical discourse. Regular written
assignments will be required.

431. PERSUASION (3)
Logical and psychological principles used by writers and
speakers to effect social control. Analysis and evaluation of
recent research in attitude modification.

435. RHETORIC OF WOMEN (3)
Prerequisite: Completion of the lower-division writing
requirement. Analysis and evaluation of the rhetoric of
women involved in political, social, and economic reforms.
Regular written assignments will be required.

442. RHETORIC OF CRIME AND PEACE (3)
Prerequisite: Completion of the lower-division writing
requirement. Exploration of the rhetorical implications of
conflict and struggle as performed in subcultural, national,
and international contexts. Regular written assignments will
be required.

443. RHETORIC IN BUSINESS (3)
Prerequisite: Completion of the lower-division writing
requirement. Critical analysis of the rhetoric used in
executive speaking, advertising, and labor negotiations.
Regular written assignments will be required.

444. POLITICAL RHETORIC (3)
Prerequisite: Completion of the lower-division writing
requirement. A study of rhetoric of recent United States
political campaigns, local and national: persuasive
techniques, ethical considerations, effectiveness. Practice in
planning and developing rhetorical messages for political
campaigns. Regular written assignments will be required.

446. RHETORIC OF CRIME AND PUNISHMENT (3)
Prerequisite: Completion of the lower-division writing
requirement. Study of rhetoric of crime, criminal procedure,
punishment, and justice in different societies and cultures.
Regular written assignments will be required.

450. COMMUNICATION RESEARCH METHODOLOGY (3)
Prerequisite: Completion of the lower-division writing
requirement. An examination of the strategy and
methodology of contemporary research in communication.
Emphasis is on scientific process, the derivation and
verification of hypotheses in communication and
persuasion, and basic communication research design.
Regular written assignments will be required.

451. INTERPERSONAL COMMUNICATION (3)
Explorations of the face-to-face reciprocal transactions that
occur in everyday communication. Emphasis is given to the
study of recent research findings and their application to
business and personal situations.

453. ORGANIZATIONAL COMMUNICATION (3)
The study of the impact of new communication technologies
on interpersonal communication patterns. Emphasis is
placed on implementation of technology in organizational
settings.

454. COMMUNICATION AND TECHNOLOGY (3)
The study of the impact of new communication technologies
on interpersonal communication patterns. Emphasis is
placed on implementation of technology in organizational
settings.

455. APPLIED ORGANIZATIONAL COMMUNICATION (3)
Prerequisite: COMS 323 or COMS 453. Analysis of
organizational communication and improvement of
organizational communication ability through participation
in a semester-long simulation. This course is offered for
CREDIT/NO CREDIT only.

495. INTERNSHIP IN ORGANIZATIONAL
COMMUNICATION (3)
Prerequisite: COMS 453. Upon prior approval by the
Program Coordinator, a student may earn up to 3 units
credit per semester and up to 6 units total for practical
experience in public or private formal organizations in
dealing with communication problems and concerns.
This course is offered for CREDIT/NO CREDIT only.
An Academic Internship course.

496A-H. EXPERIMENTAL COURSES IN SPEECH COMMUNICATION
(3)
Experimental courses in Speech Communication with course
content to be determined.

497. SUPERVISED PROJECTS IN SPEECH COMMUNICATION (1-1-1-
1)
Introduction to rhetorical research and writing through
supervised projects and field study. An Academic
Internship course.

499. INDEPENDENT STUDY (1-3)
499X-Z. INDEPENDENT STUDY (1-3) (Formerly SPED 499X-Z)

GRADUATE

600. CORE SEMINAR IN COMMUNICATION STUDIES(3)
(Formerly COMS 500)
Introduction to graduate study in communication theory,
rhetorical theory, performance, language, and cultural
studies.

603. SEMINAR IN PERFORMANCE, LANGUAGE, AND
CULTURAL STUDIES (3)
Study of performance as communication. Examination of
theory, practice, and criticism from aesthetic and
sociocultural perspectives, with emphasis on contemporary
research in performance, language, and cultural studies.
604. SEMINAR IN TEXTUAL STUDIES (3)
(Formerly COMS 504)
The study of performance implications of varying critical approaches to text.

610. CURRENT RESEARCH IN LITERATURE IN PERFORMANCE (3-3)
(Formerly COMS 510)
Study of current research in literature in performance. May be repeated once for credit.

620. SEMINAR IN COMMUNICATION AND LANGUAGE (3)
(Formerly COMS 520)
Study of contemporary theories of language and linguistics as applied to principles of communication. Emphasis on language and social interaction, linguistic pragmatics, and systems of symbolic representation.

631. STUDIES IN CLASSICAL RHETORIC (3)
(Formerly COMS 531)
Advanced study in rhetorical theory, ancient Greece through the Renaissance.

632. STUDIES IN CONTEMPORARY RHETORIC (3)
(Formerly COMS 532)
Advanced study in contemporary rhetorical theory.

633. STUDIES IN POSTMODERN RHETORIC (3)
Advanced study in postmodern rhetorical theory.

635. FEMINIST PERSPECTIVES ON COMMUNICATION (3)
Study of contemporary feminist theories applied to communication research.

640. CURRENT RESEARCH IN RHETORICAL STUDIES (3-3)
(Formerly COMS 540)
Study of current research in rhetorical studies. May be repeated once for credit.

650. SEMINAR IN COMMUNICATION THEORY (3)
(Formerly COMS 550)
Study of historical and contemporary trends in theory and research on communication and communication processes.

651. SEMINAR IN INTERPERSONAL COMMUNICATION (3)
(Formerly COMS 551)
Prerequisite: Three upper division units in communication theory (see advisor). Study of advanced principles of communication as applied to Interpersonal Communication Theory. Special emphasis on research in the area of Interpersonal Communication.

652. SEMINAR IN GROUP COMMUNICATION (3)
(Formerly COMS 552)
Study of advanced principles of communication as applied to small group communication theory and research.

653. SEMINAR IN ORGANIZATIONAL COMMUNICATION RESEARCH (3) (Formerly COMS 553)
Prerequisite: Three upper division units in communication theory (see advisor). Study of advanced principles of communication as applied to the organizational setting, with special emphasis on research in organizational communication.

654. SEMINAR IN THEORIES OF ORGANIZATIONAL COMMUNICATION AND TECHNOLOGY (3)
(Formerly COMS 554)
Prerequisites: Three upper division units in communication theory (see advisor). Study of advanced principles of communication as applied to uses of communication technologies in organizational settings, with emphasis on theory and research.

656. SEMINAR IN INTERCULTURAL COMMUNICATION
(Formerly COMS 556)
Study of advanced principles of communication as applied to intercultural communication. Special emphasis on research in the area of intercultural communication.

660. CURRENT RESEARCH IN COMMUNICATION THEORY (3-3)
(Formerly COMS 560)
Study of current research in communication theory. May be repeated once for credit.

695A-Z. SPECIAL TOPICS (1-3) (FORMERLY COMS 595A-Z)

696. DIRECTED GRADUATE RESEARCH (3) (FORMERLY COMS 596)
Application of knowledge to a project in a practical setting or in preparation for the completion of a thesis.

697. DIRECTED COMPREHENSIVE STUDIES
(Formerly COMS 597)
Enrollment is required in the semester in which the comprehensive examination is taken.

698. THESIS OR GRADUATE PROJECT (3-3)
(Formerly COMS 598)
Prerequisites: Classified graduate status and the consent of the graduate advisor. Open by special permission to students electing to do a thesis or graduate project in partial fulfillment of the requirements for the degree Master of Arts.

699. INDEPENDENT STUDY (1-6) (Formerly COMS 599)
COMMUNICATION DISORDERS & SCIENCES

Chair: J. Stephen Sinclair

COLLEGE OF HEALTH AND HUMAN DEVELOPMENT

Department Office: Monterey Hall 301
Phone: (818) 677-2852 (Voice)
(818) 677-5148 (TDD)
Website: http:\www.csun.edu\~vcoao0el\cdshome.html

FACULTY: Tenure-track faculty: Edward P. Hall, Peter Ivory, J. Stephen Sinclair, Christine Strike-Roussos, Judith Trost-Cardamone, and Elizabeth Weber. Clinical faculty: Ruth Harris (Clinic Coordinator), Rosalyn Firemark, Karen Jones Green and Connie Stratton. Ten to thirteen other professionals on the part-time faculty in speech-language pathology and audiology, early childhood education, otolaryngology, and related disciplines complete the teaching and research faculty and the supervisory staff at the Language, Speech and Hearing Center.

FACILITIES: The department is housed within Monterey Hall, a recently renovated 38,000 square foot building located on the southeastern corner of the campus. The building is home to the department’s CSUN Language, Speech and Hearing Center with convenient client access from Zelzah Avenue and parking. The department’s clinical facilities include 12 individual and 3 small group treatment rooms, 2 small group diagnostic rooms, a motor development laboratory, a large aphasia group treatment room, group treatment rooms for the early start program, a jointly operated audiology/physical therapy vestibular and balance disorders laboratory, two auditory test suites, a hearing aid dispensary, an earmold laboratory, and a semi-anechoic oto-acoustic emissions laboratory. All treatment rooms have direct observation spaces as well as audio-video production capacity. Also, the department maintains teaching and research laboratories in anatomy/physiology, hearing/speech science, phonologic disorders and language development and disorders. The building contains three computer laboratories with open lab time for department majors and studio space for multi-media production under joint operation with the College of Extended Learning.

Students have high speed Internet access for personal laptop computers via data ports located in the main lecture room, two seminar rooms, all treatment observation rooms, and the department’s student library, as well as in the three computer laboratories. The building houses all of the department’s academic offices for faculty and staff, as well as the business office, records room, and materials preparation room of the CSUN Language, Speech and Hearing Center. Monterey Hall also is home of the Los Angeles Chapter of the Alzheimer’s Association at Cal State Northridge, and features a clinical facility for the Department of Psychology.

ACCREDITATION: The graduate programs in speech-language pathology and in audiology are accredited by the Council on Graduate Programs of the American Speech-Language-Hearing Association. The department is accredited by the California Commission on Teacher Credentialing for the Clinical-Rehabilitative Services Credential (Language, Speech and Hearing Services, and Audiology) and the Special Class Authorization (Aphasic). It also is accredited by the National Council on Accreditation in Teacher Education.

SPEECH-LANGUAGE PATHOLOGY ADVISORS: Edward P. Hall, Ruth Harris, Christine Strike-Roussos, Judith Trost-Cardamone, Elizabeth Weber

AUDIOLOGY ADVISORS: Peter Ivory, Rosalyn Firemark, J. Stephen Sinclair

ACADEMIC ADVISEMENT: Communicative Disorders majors at both the undergraduate and graduate levels are assigned a faculty advisor. Mandatory advisement takes place once a semester during preregistration activities, and more frequent contact between student and advisor is encouraged. Prospective and new students at both the undergraduate and graduate levels should attend an informal monthly orientation meeting as soon as possible for basic information on the fields of Speech-Language Pathology and Audiology, and assistance in formulating academic and career plans. Consult Department for time and place.

An advisor also should be consulted regarding fulfillment of related coursework for professional licensure and certification requirements, which may include courses involving biology, human anatomy and physiology, the exceptional child, growth and development of children, mental hygiene, remedial reading, psychology, physics, mathematics, and others.

THE MAJOR: The Communication Disorders and Sciences major involves studies in the disciplines of speech and hearing sciences, audiology, and speech-language pathology. The undergraduate and graduate programs offer an emphasis in either audiology or speech-language pathology.

The masters degree is the professional entry-level requirement for employment as an audiologist or speech-language pathologist. Completion of the baccalaureate and masters degree programs enables students to satisfy the academic requirements for:

- License in all states to practice in medical, rehabilitative, or private practice settings;
- Education credentials in all states for employment in public schools; and
- Professional certification by the American Speech-Language-Hearing Association.

The department’s curriculum is conducted through classroom instruction and experiential learning, including intensive student participation in the clinical programs of the CSUN Language, Speech and Hearing Center. Advanced graduate students obtain additional clinical experience through placement in the department’s affiliated medical centers, professional practices, and public schools.

CAREERS: Graduates with the masters degree find varied career opportunities as speech-language pathologists and as audiologists serving the needs of communicatively disabled persons across the age span. Employment opportunities continue to grow due to the general population’s longer life span and advances in technology and health. Program alumni find employment in California’s and the nation’s medical centers, skilled nursing and other rehabilitative facilities, community speech and hearing centers, medical offices, public and private schools, and private practices. In recent years, approximately one-tenth of the speech-language pathologists and one-fifth of the audiologists educated in California and licensed within the state are alumni of California State University, Northridge.
REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

REQUIREMENTS FOR ADMISSION TO THE UNDERGRADUATE MAJOR

Undergraduate instruction is divided between a Pre-Clinical and a Clinical Phase. There are no pre-admission requirements for the department’s Pre-Clinical Phase. All entering undergraduate and post-baccalaureate undeclared majors are regarded as Pre-Clinical Phase students. Once junior-level or higher academic standing is achieved, Pre-Clinical Phase students must complete CD340, 345, 360, and 442, or the equivalent at another institution, in order to apply for Clinical Privileges at the CSUN Language, Speech and Hearing Center as part of the Clinical Phase of instruction. Application for the Clinical Phase is made during the semester in which the Pre-Clinical Phase courses are in progress of completion.

Please note the following: Satisfactory completion of the Pre-Clinical Phase courses includes a grade of B or better in each of the four classes. Enrollment in clinical courses (e.g., CD465, 475, 469A, 469B, or 469O) is not permitted without department approval of Clinical Privileges. Evaluation for admission to Clinical Privileges includes a faculty assessment of academic and clinical potential, supported by letters of recommendation, academic transcripts, and satisfactory completion of the Pre-Clinical Phase courses.

Once admitted to Clinical Privileges, the student is regarded as a Clinical Phase student and should consult an academic advisor regarding the area of major emphasis (speech-language pathology or audiology), proper course sequencing, and prerequisites for advanced courses. If a student is denied admission to Clinical Privileges or if such privileges have been suspended or revoked, it is possible to complete the baccalaureate degree as a non-clinical major by substitution of the faculty advisor and department chair.

Instructions, due dates, and application forms for Clinical Privileges are found in the department office. Clinical Phase students are advised that Clinical Privileges may be suspended or revoked at any time by the department for failure to attain a grade of B or better in all clinical courses (e.g., CD465 et seq., 475 et seq., 469A, 469B, 469O, 668, 672AB), for violations of ethical conduct or state licensure regarding client care, for academic probation beyond one semester, or for failure to adhere to the regulations and policies of the CSUN Language, Speech and Hearing Center or of the department. Further information on Pre-Clinical and Clinical Phase components of the department’s programs is offered during scheduled monthly student orientation sessions.

LOWER DIVISION REQUIRED COURSES (11-13 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH140</td>
<td>Introductory Statistics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL101</td>
<td>General Biology</td>
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</table>

And select one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>SPAN101</td>
<td>Introductory Spanish</td>
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</tr>
<tr>
<td>SPED160</td>
<td>American Sign Language</td>
<td>4</td>
</tr>
<tr>
<td>COMS150</td>
<td>Process of Communication</td>
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UPPER DIVISION REQUIRED COURSES (32 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CD 340*</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>CD 345*</td>
<td>Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>CD 360*</td>
<td>Speech and Language Development</td>
<td>3</td>
</tr>
<tr>
<td>CD 442*</td>
<td>Speech Science</td>
<td>3</td>
</tr>
<tr>
<td>CD 445</td>
<td>Audiometry and Hearing Conservation</td>
<td>3</td>
</tr>
<tr>
<td>CD 446</td>
<td>Auditory Habilitation</td>
<td>3</td>
</tr>
<tr>
<td>CD 451</td>
<td>Phonologic and Articulatory Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CD 462</td>
<td>Language Disorders I</td>
<td>3</td>
</tr>
<tr>
<td>CD 469A</td>
<td>Diagnostic Methods in Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

(*) Pre-Clinical Phase Courses

SPEECH/LANGUAGE PATHOLOGY EMPHASIS (10 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CD 450</td>
<td>Voice and Fluency Disorders</td>
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</tr>
<tr>
<td>CD 465</td>
<td>Clinical Practice in Speech/Language Pathology</td>
<td>3</td>
</tr>
<tr>
<td>CD 475</td>
<td>Clinical Practice in Audiology</td>
<td>2</td>
</tr>
<tr>
<td>CD 480</td>
<td>Early Speech-Language Intervention</td>
<td>3</td>
</tr>
<tr>
<td>CD 566</td>
<td>Clinical Practice in Speech/Language Pathology</td>
<td>2</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR THE MAJOR, SPEECH/LANGUAGE EMPHASIS (53 TO 55 UNITS)

AUDIOLGY EMPHASIS (9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
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<tbody>
<tr>
<td>CD 465</td>
<td>Clinical Practice in Speech/Language Pathology</td>
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<tr>
<td>CD 471</td>
<td>Advanced Audiology</td>
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<tr>
<td>CD 475</td>
<td>Clinical Practice in Audiology</td>
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<tr>
<td>CD 576</td>
<td>Clinical Practice in Audiology</td>
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</table>

TOTAL UNITS FOR THE MAJOR, AUDIO EMPHASIS (52 TO 54 UNITS)

GENERAL EDUCATION (52 UNITS)

The department will accept its own lower division requirements, or if equivalents have been taken to satisfy GE requirements, these courses will also satisfy department requirements for the major.

For example, if a student has taken MATH 140 (for GE section A.3: Mathematics), BIOL 100 (100L) Introductory Biology, and lab (for GE Section B.1: Biological and Physical Sciences), and SPAN 101 Elementary Spanish I (for GE Section F.2 or F.3: Foreign Language), the department’s own lower division requirements will have been met.

TITLE 5 REQUIREMENTS (6 UNITS)

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

REQUIREMENTS FOR ADMISSION TO THE PROGRAM

Potential graduate students must apply simultaneously and separately to the University and to the department. Those who meet both the University’s and the department’s minimum requirements will be considered by the department in a competitive process for admission to the Department as Conditionally Classified or Classified Graduate students.
Graduate applicants who meet the University minimum requirements but do not meet the department’s minimum requirements may elect to enroll in undergraduate prerequisite courses in a Post-Baccalaureate Unclassified status (PBU). The PBU enrollment is intended to assist students in meeting the minimum admission requirements of prerequisite courses for the department’s graduate programs (see below). Courses in the masters degree program itself generally are restricted to graduate students in Classified or Conditionally Classified Graduate status. Students with a baccalaureate degree in a major other than Communication Disorders and Sciences need not pursue a second baccalaureate degree in this field, but may do so if they wish. Students having a baccalaureate degree in Communication Disorders and Sciences, or equivalent, may not pursue a second baccalaureate degree in the department. Potential PBU students should discuss options with a department advisor.

An applicant to the department’s graduate program who currently is in PBU status will need to apply only to the department for admission once the minimum admission requirements have been fulfilled.

**APPLICATION MATERIALS.**

Department materials and detailed instructions for application to the graduate programs may be obtained from the department office. The department requires that applicants must use the department application form and the forms for letters of recommendation. Completed department application materials must be returned directly to the department.

**MINIMUM REQUIREMENTS FOR CONSIDERATION FOR DEPARTMENT ADMISSION**

The following requirements must be met:

1. Completion of a BA degree;
2. Completion of 30 units of approved undergraduate courses in Communicative Disorders, including the specific course prerequisites described below;
3. Submission of the department graduate application;
4. Submission of three letters of recommendation on departmental forms;
5. Submission of scores on the Graduate Record Examination (GRE) or Miller Analogies Test (MAT); and
6. Passing score on the CSU Upper Division Writing Proficiency Exam.

It is understood that some of the required courses may be in progress at the time of application, but would be completed before the anticipated starting date.

Students with an undergraduate degree in Communication Disorders and Sciences from a university other than CSUN may have minimal deficiencies in meeting the above requirements, and may be considered for admittance a Conditionally Classified Graduate students. For example, an applicant with a baccalaureate degree from an institution outside of California is not expected to pass the CSU Upper Division Writing Proficiency Examination at the time of application. In this case, if admitted, the applicant would complete this state-mandated requirement during the first semester of graduate studies as a condition of admission. Eligibility should be discussed with a department academic advisor.

The following undergraduate coursework is prerequisite for admission to Classified Graduate status:

**EMPHASIS IN SPEECH-LANGUAGE PATHOLOGY:**

1. Twelve (12) semester units of basic coursework, including CD 340, 345, 360, 442 or the equivalent.
2. Four (4) semester units in observation and diagnostic methods, including CD 469A, 469O, or equivalent;
3. Nine (9) semester units of coursework in the management of communicative disorders, including CD 450, 451, 462 or equivalent,
4. Three (3) semester units of courses in basic audiology or auditory rehabilitation, such as CD 445, 446 or equivalent; and
5. Two (2) semester units of clinical practice in speech-language pathology, such as CD 465 or the equivalent.

**EMPHASIS IN AUDIOLOGY:**

1. Twelve (12) semester units of basic coursework, including CD340, 345, 360, and 442, or equivalent;
2. Four (4) semester units in observation and diagnostic methods, including CD 469A, 469O, or equivalent;
3. Six (6) semester units of coursework in the management of communication disorders, including CD 451 and 462, or equivalent;
4. Six (6) semester units of coursework in basic audiology and auditory rehabilitation, including CD 445 and 446, or the equivalent; and,
5. Two (2) semester units of clinical practice, including CD 475.

**SPECIAL REQUIREMENTS:**

The Clinical Rehabilitative Services Credential and Special Class Authorization (Aphasic) require a masters degree. Applicants for the department’s credential programs must successfully gain admission to the department’s master’s program. PBU status is not regarded as matriculation in the department’s master’s degree programs or credential programs. Student application for admission to the department’s graduate programs also automatically includes application for admission to the department’s Clinical Phase and the awarding of Clinical Privileges at the CSUN Language, Speech and Hearing Center. An offer of admission to Classified or Conditionally Classified Graduate status is assumed to include an offer of clinical privileges unless otherwise expressed by the department’s admission letter. Retention of clinical privileges for graduate students follows the same policy guidelines as for undergraduate students. PBU students must apply for the Clinical Phase and Clinical Privileges under the same guidelines as undergraduate students.

**REQUIREMENTS FOR THE M.S. DEGREE:**

Once admitted to the department’s graduate programs, a student must attain Classified Graduate status, submit a department-approved plan of study (i.e., the “Master’s Degree Contract”) to the Graduate School for approval, satisfactorily complete all courses on the plan, and pass a final, comprehensive examination. It is noted that for state licensure, professional certification, and state education credentials, additional graduate courses are taken as part of the course of study. A thesis option is available that fulfills a portion of the final, comprehensive examination requirement. Students interested in writing a thesis must consult the department’s graduate coordinator for option criteria prior to submission of a department-approved “Master’s Degree Contract.”
REQUIRED COURSES (30 UNITS)
15 units in the core curriculum for all majors:
CD 501 Interviewing and Counseling in Communicative Disorders..................3
CD 502 Research in Communicative Disorders..........................................3
CD 552 Language Disorders II......................................................................3
CD 558 Neuroanatomy and Neurophysiology of Speech, Language and Hearing.....3
CD 674 Pediatric Audiology...........................................................................3

SPEECH-LANGUAGE PATHOLOGY EMPHASIS (15 UNITS)
CD 660 Structural-Organic Disorders of Speech and Swallowing....................3
CD 659 Aphasia, Apraxia and Dysarthria......................................................3
CD 661 Advanced Study of Voice, Fluency, and Phonological Disorders...........3
CD 662 Seminar in Developmental Language Disorders.................................3
CD 663 Neurogenic Disorders of Swallowing and Cognition..........................3

AUDIOLOGY EMPHASIS (15 UNITS)
CD 660 Structural-Organic Disorders of Speech and Swallowing....................3
CD 670A Electrophysiology of the Audio-Vestibular System..........................3
CD 670B Electrophysiology of the Audio-Vestibular System..........................3
CD 671 Seminar in Amplification for the Hearing-Impaired.............................3
CD 675 Pathologies of the Auditory System.................................................3

COMPREHENSIVE EXAM/ THESIS
Successful completion of a comprehensive written examination covering speech and hearing science, speech-language pathology, and audiology; student must register for CD 697,
or
Successful completion of an acceptable thesis and its oral defense, along with successful completion of a comprehensive written examination in areas of speech and hearing sciences, speech-language pathology, and audiology in the areas not covered by the thesis topic. Student must register for CD 698.

STATE LICENSURE AND ASHA CERTIFICATION
For state licensure and ASHA certification, additional courses include the following (department advisement is required for individual needs of students):
CD 566/567 Clinical Practice in Speech Pathology II, III..................................2,2
CD 576/577 Clinical Practice in Audiology II, III.............................................2,2
CD 668 Advanced Diagnostics in Speech-Language Pathology........................3
CD 672A/B Advanced Clinical Practice in Speech Pathology and Audiology I, II..............................................3

Special note for entry-level standards: The American Speech-Language-Hearing Association requires a total of 75 units in specified areas of coursework for the Certification of Clinical Competence in either speech-language pathology or audiology, while 60 units is required by California for state licensure. The license and certification also have specific supervised practicum requirements as well. Therefore, students pursuing the master’s degree must consult regularly with an academic advisor throughout the course of study in order to meet these education standards. These requirements include:

a. Fifteen (15) units of courses in the normal processes of speech, language, and hearing behavior and speech and hearing science.

b. Forty-eight (48) units of coursework in speech-language pathology and audiology and in related fields. Thirty (30) of these units must be in graduate courses and twenty-four (24) of these units must be in the major area of emphasis (speech-language pathology or audiology). Twelve (12) units must be in science (3 units), mathematics (3 units) and social/behavioral sciences (6 units).

c. A master’s degree in Communication Disorders and Sciences.

d. A minimum of 375 clock hours of supervised clinical practice covering specified diagnostic and therapeutic activities across a spectrum of communication disorders and across the age span. In order to satisfy these requirements, a student must complete all practica (clinics) with a grade of B or better and secure the signature of the clinical supervisor attesting to competent performance. All students will complete CD 469A, B, O and CD 465. Speech-language pathology majors will complete CD 566, 567, 668, and 672A (as well as CD672B if additional practica is needed to meet standards). Audiology majors will complete CD 475, 576, 577, and 672A, B.

Special note on application for state licensure and ASHA certification: The department and the University do not confer a license to practice or professional certification. The graduating student must apply to the appropriate state agency having jurisdiction over the intended practice for a license and must apply to the American Speech-Language-Hearing Association for certification. It is emphasized that practice without a license is a violation of state law, unless the employment is within specified exempt settings. The department provides advisement on the requirements and processes for licensure and certification.

COURSE LIST
LOWER DIVISION

260. VOICE AND DICTION PRINCIPLES AND THEORY (2)
A description of the mechanics and function of voice and diction; a review of the causes of less than optimal voice and diction; a discussion of the relation of vocal hygiene and voice and diction; and practice in the techniques of the self-assessment and voice and diction improvement.
(Available for General Education, Applied Arts and Sciences).

UPPER DIVISION

340. PHONETICS (3)
A study of general phonetics principles; articulatory, acoustic and linguistic aspects of the sound systems of standard and non-standard dialects of American English; introduction to the application of phonetics to disordered sound systems.

345. HEARING SCIENCE (3)
Study of physics of sound, anatomy and physiology of the ear, and measurement of perception of sound. Brief survey of causes of hearing impairment and habilitation procedures.

360. SPEECH DEVELOPMENT AND COMMUNICATION DISORDERS(3)
Study of speech and language development in relation to normal learning and growth processes; brief introduction to second language acquisition.
361. LANGUAGE DEVELOPMENT IN CHILDREN (3)
Prerequisite: Completion of the lower-division writing requirement. Study of oral language development in children and the bases for speech and language problems. Provides layperson awareness of the various dimensions of speech and language development; the milestones observable within the normal developmental sequence; and the identification, consequences and management of speech and language disorders. (Not open to Communicative Disorders majors.) (Available for General Education, Applied Arts and Sciences.)

442. SPEECH SCIENCE (3)
Structure and function of neuro-muscular systems used in respiration, phonation, resonation, and articulation; fundamentals of sound production and transmission applied to speech.

444. AUDIOMETRY FOR THE SCHOOL NURSE (3)

445. AUDIOMETRY AND HEARING CONSERVATION (3)
Prerequisite: CD 345. Study of basic battery of audiologic tests, including equipment calibration procedures, pure tone and speech audiometry, clinical masking, and the study of school and industrial identification audiometry and hearing conservation. Familiarization with basic audiologic equipment, calibration, and test procedures.

446. AUDITORY HABILITATION (3)
Prerequisite: CD 345. Theory and methods of habilitation of hearing-impaired adults and children, including assessment of hearing handicap, habilitation management, speech-reading, and amplification with individual and group hearing aids.

450. VOICE AND FLUENCY DISORDERS (3)
Prerequisites: CD 360, 442. Study of the etiology, characteristics, clinic assessment, and therapeutic management of voice and fluency disorders in children and adults. Regular written assignments will be required.

451. PHONOLOGIC AND ARTICULATORY DISORDERS (3)
Prerequisites: CD 340, 360, and 442. Examination of theories of normal and disordered acquisition of phonology and articulatory production as well as basic phonologic assessment methods and treatment planning. Both functional and structural disorders are emphasized, including cleft lip and palate and related craniofacial syndromes. Regular written assignments will be required.

462. LANGUAGE DISORDERS I (3)
Prerequisites: CD 360. Ways of conceptualizing language disorder; disorders of parts of language; introduction to data collection, transcription and language analysis; introduction to the concept of differential diagnosis; introduction to diagnostic populations with associated developmental language disorders.

465. CLINICAL PRACTICE IN SPEECH PATHOLOGY I (2)
Prerequisites: CD 340, 345, 360, 442, 451, 462, 469A and 469O. Supervised clinical experience in the diagnosis of and therapy for speech and hearing handicapped children, academic study of specific speech problems. Six hours of laboratory per week.

566. CLINICAL PRACTICE IN SPEECH PATHOLOGY II (2)
Six hours of laboratory per week.

567. CLINICAL PRACTICE IN SPEECH PATHOLOGY III (2)
Prerequisite: Graduate status. Six hours of laboratory per week.

469A. DIAGNOSTICS IN COMMUNICATION DISORDERS (3)
Prerequisites: Admission to Clinical Privileges (Clinical Phase). Basic concepts of standardized and nonstandardized evaluation procedures for children and adults with mild to moderate communicative disorders. Theory and application of critical writing including the case history and the assessment report.

469B. PRACTICUM IN DIAGNOSTICS IN COMMUNICATION DISORDERS (1)
Prerequisites: CD496A, 469O. Practicum in the evaluation of individuals with communicative disorders. Three hours of laboratory per week.

469O. OBSERVATION IN COMMUNICATION DISORDERS (1)
Observation of the evaluation and management of speech, language and hearing disorders. 25 hours of pre-therapy observation. Instruction in case management fundamentals. To be taken concurrently with 469A. Three hours of laboratory per week.

470. THE LANGUAGE, SPEECH AND HEARING SPECIALIST IN THE SCHOOL SYSTEM (3)
Prerequisites: CD 340 and 360. A review of issues in education; methods and techniques employed by the public school Language, Speech and Hearing Specialist; the role of the Specialist; study of the State Codes pertaining to the speech and hearing-handicapped child; review of the organization of national and state professional groups in terms of their functions, goals, codes of ethics, and certification requirements.

471. ADVANCED AUDIOLOGY (3)
Prerequisite: CD 445. Study of auditory tests for lesions in the peripheral and central auditory system, including impedance audiometry and test batteries using pure tone and speech stimuli; and tests for pseudohypoacusis.

475. CLINICAL PRACTICUM IN AUDIOLOGY I (2)
Prerequisites: CD 445, 446, 469A and 469O. Application of audiometric theory in the audiological laboratory, giving the student experience in the clinic routine of assessing auditory function and preparing and implementing a program of rehabilitation. Six hours of laboratory per week.

576. CLINICAL PRACTICUM IN AUDIOLOGY II (2)
Prerequisite: CD 475. Six hours of laboratory per week.

577. CLINICAL PRACTICUM IN AUDIOLOGY III (2)
Prerequisite: Graduate status. Six hours of laboratory per week.

478. SEVERE LANGUAGE HANDICAPPED AND/OR APHASIC PUPILS IN THE CLASSROOM (3)
Prerequisite: CD 465. This course provides the advanced communicative disorders student with behavioral data, current concepts, and effective diagnostic and therapeutic procedures utilized in the rehabilitative process for the severe oral-language handicapped/aphasic child in the classroom.

480. EARLY SPEECH-LANGUAGE INTERVENTION (3)
Prerequisites: CD 340, 360, 462. Advanced study of speech and language disorders, assessment procedures, and
intervention management of developmentally-delayed children from birth to five years.

485. COMPUTER APPLICATIONS IN COMMUNICATION DISORDERS (3)
Prerequisite: Acceptance into Clinical Phase of Department. Study of basic computer concepts and applications of microcomputers in the fields of Speech-Language Pathology and Audiology, including diagnostic and rehabilitative procedures, statistical and research applications, recordkeeping, and word processing. Review of contemporary microcomputer hardware and software. Regular written assignments will be required.

496A-Z. EXPERIMENTAL COURSES IN COMMUNICATIVE DISORDERS (1-3)
Prerequisite: One year of appropriate courses in Communicative Disorders. Experimental courses in Communicative Disorders with course content to be determined.

499. INDEPENDENT STUDY (3)

GRADUATE

501. INTERVIEWING AND COUNSELING IN COMMUNICATIVE DISORDERS (3)
Prerequisite: Graduate standing or permission of instructor. Advanced study of interviewing and counseling strategies and techniques associated with diagnostic and therapeutic practice in speech-language pathology and audiology. Professional responsibilities for ethical practices. Regular written assignments will be required.

502. RESEARCH IN COMMUNICATION DISORDERS (3)
Prerequisite: Graduate standing. Study of applied research methods and instrumentation in the field of communication disorders, including literature search techniques, research design, statistical tests, laboratory instrumentation and calibration, and report preparation. Regular written assignments will be required.

552. LANGUAGE DISORDERS II (3)
Prerequisite: CDS 462 or equivalent and graduate standing. Survey of current definitions and causes of language disorder; disorders of parts of language and trade-off effects. Identification of relevant features of disordered language for assessment and intervention. Analysis of relevant features of disordered language through advanced data collection, transcription and language analysis of intonation, morphosyntactic form, communicative function, repair phenomena and discourse level sequences.

558. NEUROANATOMY AND NEUROPHYSIOLOGY OF SPEECH, LANGUAGE AND HEARING (3)
Prerequisite: Graduate standing. This course is concerned with the structural components and organization of the central and peripheral nervous systems and their conduction pathways and functions, with specific emphasis on those structures that subserve normal speech, language and hearing processes. Regular writing assignments will be required.

595A-Z. SPECIAL TOPICS (1-3)

599. INDEPENDENT STUDY (1-6)

659. APHASIA, APRAXIA AND DYSARTHRIA (3)
Prerequisites: CDS 558 and graduate standing. This course examines neurobehavioral correlates, diagnosis and treatment for the acquired disorders of aphasia, apraxia of speech, and dysarthria. In addition, related topics, such as neuropathologies, neuroradiology, limb apraxia and cortical stuttering/palilalia will be presented. Regular written assignments will be required.

660. STRUCTURAL-ORGANIC DISORDERS OF SPEECH AND SWALLOWING (3) (Formerly 560)
Prerequisites: Graduate standing and CD 558. Advanced study of current theory, research, clinical and instrumental speech management of: cleft lip/palate and related craniofacial anomalies, neurogenic velopharyngeal dysfunction, dysphagias, laryngectomy and related impairments secondary to ablative surgeries for head and neck cancers.

661. ADVANCED STUDY OF VOICE, FLUENCY AND PHONOLOGICAL DISORDERS (3)
Prerequisites: CDS 450 or equivalent and graduate standing or permission of instructor. This course examines advanced theoretical, diagnostic and treatment issues in hyperfunctional/organic/psychogenic voice disorders, typical/atypical stuttering, and phonological/articulation disorders. In addition, multicultural issues including dialect differences will be presented. Regular written assignments will be required.

662. SEMINAR IN DEVELOPMENTAL LANGUAGE DISORDERS (3)
Prerequisite: CDS 552 and graduate standing. Advanced study of current research relating to the differential diagnosis of populations with associated developmental language disorders including specific language impairment, language/learning disabilities, central auditory processing disorders, pervasive developmental disorders, psychiatric disorders, mental retardation and other populations with associated developmental disorder.

663. NEUROGENIC DISORDERS OF SWALLOWING AND COGNITION (3)
Prerequisites: CDS 558, 659, 660 and graduate standing. This course examines the diagnosis and treatment of acquired dysphagia in adult neurogenic populations. In addition, the course examines neurobehavioral correlates, diagnosis and treatment in traumatically brain-injured, right hemisphere damaged and dementia populations. Characteristics of speech, language, cognitive and swallowing changes associated with normal aging are also examined.

668. ADVANCED DIAGNOSTICS IN SPEECH AND LANGUAGE PATHOLOGY (3)
Prerequisites: CDS 465, 566, 567, 469B or equivalent, 552, 558, 659 and 661. Advanced diagnosis and evaluation of children and adults with complex disorders of speech and/or language and/or cognition. Clinical experience in taking a history, constructing a test battery, administering norm-referenced tests, performing informal assessment procedures, interpreting formal and informal results, making a differential diagnosis, writing reports and conducting feedback sessions with clients, parents, and/or caregivers.

670A/B. SEMINAR IN ELECTROPHYSIOLOGY OF THE AUDIO-VESTIBULAR SYSTEM (3-3)
Prerequisite: Graduate standing and CD 471, 558 (may be concurrent with CD 558). Advanced study of the measurement and interpretation of electrophysiology of the peripheral and central audio-vestibular system and related sensory functions, including electrocochleography, brainstem evoked response audiometry, electroencephalography, brain-mapping, posture platformography,
electronystagmography, acoustic immittance audiometry, and other tests. Note: 670A must be taken before 670B.

**671A. SEMINAR IN AMPLIFICATION FOR THE HEARING-IMPAIRED (3)**
Prerequisites: CD 445, 446. Study of hearing aids for children and adults, including electronic components, electroacoustic assessment procedures, coupling methods and acoustics, evaluation and fitting procedures, acoustic environmental effects, counseling, and dispensing policies and regulations.

**671B. AMPLIFICATION SELECTION AND FITTING FOR THE HEARING IMPAIRED (3)**
Prerequisites: Graduate standing and CDS 671A. Study in advanced topics in amplification for hearing impaired adults and children. Areas of consideration in amplification systems include compression and multi-band compression, multiple-memory capability, programmability and automatic signal processing. Areas of consideration in selection and verification of amplification systems include threshold-based prescriptive procedures and loudness-based selection procedures, including desired sensation level procedure. Regular written assignments will be required.

**672AB. ADVANCED CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY I AND II (3-3)**
Prerequisites: CD 465, 566 and 567. Supervised clinical experience in diagnostic and therapeutic procedures with speech and hearing handicapped children and adults in hospitals and community health service centers. Staff conferences with medical and allied health personnel in relation to speech and language pathologies. For Credit/No Credit Only.

**674. PEDIATRIC AUDIOLOGY (3)**
Prerequisites: CD 445, 446. Advanced study of the causation, assessment, and management of auditory disorders in infants and children.

**675. PATHOLOGIES OF THE AUDITORY SYSTEM (3)**
Prerequisite: CD 445. The study of etiology, incidence, clinical signs and symptoms, diagnosis, and medical and audiologic management of diseases and disorders affecting the peripheral and central audio-vestibular system.

**696. DIRECTED GRADUATE RESEARCH (1-3)**

**697. DIRECTED COMPREHENSIVE STUDIES**
Prerequisite: Completion of all courses required in the program.

**698. THESIS (3-3)**

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**POST-MASTER'S COURSES**

Prerequisites for the following courses: Available to persons holding graduate degrees in Communicative Disorders or closely related fields with the consent of the instructor. Also available to classified graduate students in the Communicative Disorders Master of Science program at CSUN with the consent of the instructor. These courses may not be applied to the Master of Science program.

**700A. SEMINAR: CURRENT TOPICS IN CRANIOFACIAL SPEECH AND HEARING DIAGNOSIS (3)**
Advanced study of clinical and instrumental assessment of structural and neurogenic craniofacial speech and hearing disorders; audio and videotape speech analysis; reading and evaluating scientific and professional literature.

**700B. SEMINAR: CURRENT TOPICS IN CRANIOFACIAL SPEECH AND HEARING TREATMENT (3)**
Advanced study of the theories and practices underlying behavioral and instrumental remediation of craniofacial communicative disorders; reading and evaluating scientific and professional literature.

**701. ADVANCED ELECTROPHYSIOLOGY FOR SPEECH, LANGUAGE AND HEARING (3)**
This course covers research, advanced instrumentation, and interpretation of evoked potentials and other electro-physiologic techniques used in the assessment of neural mechanisms involved in speech, language and hearing processes.
COMPUTER SCIENCE
Chair: Steven Stepanek

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE
Department Office: Engineering 2403
Phone: (818) 677-3398
Office Manager: Sally Gamon

FACULTY: Prasanta Barkataki, Michael Barnes, Steven Fitzgerald, Peter Gabrovsky, Philip Gilbert, Robert Henderson, Jaime Kim, Robert Lingard, Richard Lorentz, Gloria Melara, John Motil, Son Pham, David Salomon, Diane Schwartz, Peter Smith, Steven Stepanek (Chair), and Brenda Timmerman

EMERITUS FACULTY: Ruth Horgan, Dorothy Miller

GRADUATE COORDINATOR: Richard Lorentz

THE MAJOR: Computers have become crucial in almost every field from accounting to zoology. In every aspect of science, art, business and entertainment, computer applications abound. For students who think logically, enjoy solving problems and are persistent, Computer Science is a good study choice. Our department’s pragmatic approach to computer science offers hands-on design experience as well as theoretical knowledge. That’s an advantage on the job because graduates have experience in design, implementation, and testing.

We teach logical thinking and creative problem-solving skills and we emphasize communication, both written and spoken. Good communication is vital in working with clients and helping them understand how the software works. Classes often incorporate a team approach, requiring clear communication among members as they solve a problem and explain their solution to others.

Classes are small, averaging 25 students. They are taught by faculty members, not graduate students. The faculty works on such fascinating topics as virtual reality, high-speed networks, parallel computing and Internet technology. Students work alongside them in the department labs, most of which have been recently equipped with state-of-the-art computers. Students gain extra experience in the ACM Student Club (part of a national organization), which run Saturday workshops and social activities. A strong scholarship program is available.

The Computer Science Program is accredited by the Computer Science Accreditation Commission of the Computing Science Accreditation Board.

CAREERS: A computer science major can have a career as a software engineer, designing, implementing, testing and maintaining large software systems. Careers are available in such specialties as computer graphics, computer security, robotics, expert systems, distributed systems and networking. Many companies employ computer science majors as computer systems administrators. The degree can lead to a career in almost any industry, including aerospace, manufacturing, banking, health and education.

PROGRAMS OFFERED
The undergraduate program, leading to a B.S. in computer science, provides a broad knowledge of computing. It consists of core courses in programming languages, computer system organization and operating systems, data structures, computation theory, computer logic, and societal implications in computing.

The freshman year program includes courses in mathematical analysis, algorithms and programming, computer architecture and assembly language, symbolic logic, and data structures and program design. Sophomores take courses in linear algebra, computer organization, programming language concepts, files and data bases, and fundamental mathematical concepts.

As juniors, students take courses in digital systems; combinatorial algorithms; automata, languages, and computation; operating systems and system architecture; and program design techniques, along with a course in either probability or statistics.

With the help of an advisor, seniors formulate a Concentrated Studies Package related to their career objectives. They also take a course in societal issues in computing and a course in numerical analysis or methods.

Students who hold a recognized bachelor’s degree from an accredited institution may apply for the Second Bachelor’s degree program.

A minor in computer science calls for 32 units of study, including courses in computer architecture and assembly language, algorithms and programming, data structure and program design, computer organization, and programming language concepts, along with a choice of electives.

Students in the MS program complete 30 units of graduate work, including a 6 units thesis or graduate project.

The core of the graduate program comprises advanced course in computation theory, algorithms and data structures, system architecture, and software engineering. The electives may be chosen to either form a concentration in an area of specialization or to provide a broadly based program of study, whichever is more consistent with the selected thesis or graduate project.

ACADEMIC ADVISEMENT
Each student meets with a faculty advisor during the Sophomore year and plans a concentrated studies program appropriate to the student’s personal career objectives. For information regarding the assignment of an advisor, please contact the Department Office.

Prior to the formation of their Graduate Committees, graduate students are advised by the Graduate Coordinator. After the formation of their Graduate Committees, graduate students are advised by the Committee Chair. All areas of specialization, courses and Comp. 698 must be approved in advance by the Committee Chair.

ENGINEERING/COMPUTER SCIENCE SCHOLARSHIP INFORMATION
The College of Engineering and Computer Science administers a substantial undergraduate scholarship program, disbursing approximately $40,000 each year to high-achieving engineering and computer science students. The College also administers memorial scholarships and scholarships donated by friends of the University.

Applications and information are available in mid-February with applications due in mid-April. Specific dates and further information can be obtained from the Office of the Dean.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE
The B.S. in Computer Science program requires a total of 130-131 units, including general education requirements, a Computer Science core, and a 15 unit sequence of approved elective courses referred to below as a Concentrated Studies Package. A Computer Science major must complete a minimum of 18 residency units of upper division computer science courses which include 12 units in the concentrated studies, in addition to all other institutional residency requirements.
SPECIAL GRADE REQUIREMENTS
Please note the following:
No grade lower than a ‘C’ will be accepted on transfer from another institution to Computer Science requirements.
No CSUN grade lower than a ‘C-’ will be accepted for courses in the major.

LOWER DIVISION REQUIRED COURSES (36 UNITS)
FRESHMAN YEAR
MATH 150A Mathematical Analysis I.................5
COMP 110/110L Introduction to Algorithms and Programming..............4
COMP 122 Computer Architecture and Assembly Language.......................3
MATH 150B Mathematical Analysis II..................5
PHIL 230 Symbolic Logic I..........................4
COMP 182/182L Data Structures and Program Design.......4

(Note: All students must pass the English Placement Test with a score of 151 or higher or have completed the university lower division writing requirement to enroll in any 200-level course in the major.)

SOPHOMORE YEAR
MATH 262 Introduction to Linear Algebra..................3
COMP 222 Computer Organization............................3
COMP 223 Concepts of Programming Languages........3
COMP 282 Advanced Data Structures..........................3

LOWER DIVISION ELECTIVES (12-15 UNITS)
Select one of the following science sequences (8-10 Units):
Physics 220A, 220AL, 220B, 220BL
Biology 106, 106L, 107, 107L
Chemistry 101, 101L, 102, 102L

Select an additional science course with corresponding lab (4-5 Units):
Biology 106, 106L
Chemistry 101, 101L
Geography 101, 102 (Lab)
Geography 101, 105 (Lab)
Geology 101, 102 (Lab)
Geology 110, 112 (Lab)
Physics 220A, 220AL

UPPER DIVISION REQUIRED COURSES (23 UNITS)
(Note: All students must complete lower division writing requirement with a grade of ‘C’ or better before enrolling in any 300-level course in the major.)

SOPHOMORE YEAR
MATH 326 Fundamental Concepts of Mathematics........3

(Note: All students must attempt the upper division writing proficiency examination before enrolling in any senior level courses in the major.)

JUNIOR YEAR
EE 320 Theory of Digital Systems.........................3
EE 320L Theory of Digital Systems Lab.....................3
MATH 482 Combinatorial Algorithms...................3
COMP 310 Automata, Languages & Computation...........3
COMP 322/322L Introduction to Operating Systems and System Architecture........4
COMP 380 Introduction to Software Engineering.......3

SENIOR YEAR
COMP 450 Societal Issues in Computing................3

UPPER DIVISION ELECTIVES (20-21 UNITS)
Select one of the following:
MATH 340 Introductory Probability.......................3
MATH 441 Introduction to Statistical Inference..........3

Select one of the following. Prior approval by an advisor is required. (2-3 Units):
COMP 370 Numerical Methods for Computing............3
ME 309 Numerical Analysis for Engineering Systems....3
MATH 481A Numerical Analysis..........................3

Approved Concentrated Studies Package (15 Units)

CONCENTRATED STUDIES PACKAGE
A GRADE OF “C-” OR BETTER IS REQUIRED IN ALL COURSES IN THE CONCENTRATED STUDIES PACKAGE.

By the junior year, all Computer Science majors are required to select a set of elective classes (Concentrated Studies Package) as part of their program of study. A Concentrated Studies Package consists of a minimum of 15 units of upper division classes, of which at least 12 units must be in Computer Science.

Each Concentrated Studies Package has a Specialization Component and an Options Component. The Specialization Component contains 9 units consistent with the student’s career goals; these must be specifically identified in the student’s program. The student may choose any 400 or 500 level Computer Science courses for the 6 unit Options Component.

Both the Specialization Component of the Concentrated Studies Package and the program of study as a whole require approval by the student’s advisor and the department chair. Students are cautioned against assuming that courses taken before such approval will be acceptable for the package. It is possible to substitute courses in the Concentrated Studies Package after the program has been approved; however, all such changes must meet the requirements stated above and require formal approval by the student’s advisor and the department chair.

TOTAL UNITS IN THE MAJOR (91-92 UNITS)

GENERAL EDUCATION (33 UNITS)
Subsection A.2, subsection A.3, Section B and Section E are considered satisfied by courses in this major.

TITLE 5 (6 UNITS)
In addition to General Education requirements, all students must fulfill Title V requirements in institutions and ideals, the constitution of the United States, and state and local government.

TOTAL UNITS REQUIRED FOR DEGREE: 130-131

MINOR IN COMPUTER SCIENCE
COMP 110/110L Introduction to Algorithms and Programming..................4
COMP 122 Computer Architecture and Assembly Language..................4
COMP 182/182L Data Structures and Program Design........3
COMP 222 Computer Organization..................3
COMP 232 Concepts of Programming Languages........3
COMP 282 Advanced Data Structures..................3

Select one course from the following list (3 Units):
COMP 310 Automata, Languages & Computation 3
COMP 322/322L Introduction to Operating Systems & System Architecture........4
COMP 380 Introduction to Software Engineering........3

1 Biology 107/L has a prerequisite of CHEM 101
2 COMP 310 has a prerequisite of PHIL 230 and MATH 326
REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

Students in the M.S. program complete 30 units of graduate work, including a 6-unit thesis or graduate project.

Requirements for Admission

For admission to the Master of Science Program, applicants must meet the requirements of the University as listed in the catalog, take the Graduate Record Examination (General Test), submit the results to the University and be accepted to the program by the Computer Science Department. Each applicant’s transcripts and GRE scores will be reviewed by the Computer Science Department to determine if the student shows high promise of success in the program.

To attain fully classified graduate status in the program, students must complete any required prerequisite undergraduate material, pass the Upper Division Writing Proficiency Exam and have a 3.0 grade point average for all work taken as a Conditionally Classified Student.

Information about the prerequisite material can be obtained from the graduate coordinator.

Special Requirements

Each M.S. candidate must submit a proposal for a thesis or graduate project to be done under the supervision of a faculty member. When the thesis or project is approved by that faculty member, the graduate coordinator and the department, the proposal becomes a contract between the student and the department as to the work to be done for the thesis or graduate project. A three member project/thesis committee is formed with that faculty member as its chair. When the work is done, the student must prepare a report and defend or present results of the thesis or graduate project before the committee. The report and presentation must be approved by the student’s project/thesis committee.

All courses in the student’s graduate program must be completed with a grade of “C” or better.” No course taken more than the seven years prior to the date of which all requirements for the degree are completed may be counted as part of the 30 units in the degree program. No time limit applies to courses taken to satisfy M.S. prerequisite requirements.

REQUIRED COURSES (15 UNITS)

A. BREADTH REQUIREMENT (9 UNITS)

The student will select one course from each of three areas of study. The areas of study and the courses available for selection in each area are shown below:

**Algorithms:**
- COMP 610 Data Structures and Algorithms ..........3

**Systems:**
- COMP 620 Computer System Architecture ............3

**Software Engineering:**
- COMP 680 Software Engineering .......................3

**Foundations:**
- COMP 615 Advanced Topics in Computation Theory .3
- COMP 630 Formal Semantics of Programming Languages .................3

B. PROJECT/THESIS (6 UNITS)

- COMP 696 Directed Graduate Research ...............3
- COMP 698 Thesis or Graduate Project .................3

ELECTIVES (15 UNITS)

Courses at the 400, 500 and/or 600 level in a single area of specialization approved by the Graduate Coordinator, Department Chair, and Project/Thesis Committee Chair. (6 units must be at the 500 level or above)

TOTAL UNITS REQUIRED FOR DEGREE: 30

COMPUTER SCIENCE COURSE LIST

LOWER DIVISION

100. COMPUTERS: THEIR IMPACT AND USE (3)

An introduction to the uses, concepts, techniques, and terminology of computing. Places the possibilities and problems of computer use in historical, economic, and social contexts. Shows how computers can assist in a wide range of personal, commercial, and organizational activities. Typical computer applications, including word processing, spreadsheets, and databases. Not open to Computer Science majors. (Available for General Education, Applied Arts and Sciences.)

101. INTRODUCTION TO ALGORITHMS (2)

An introduction to the design, development and expression of algorithms. Algorithms and their stepwise refinement. Expression of algorithms in a formal language. This course is intended to be a first course in a two-course sequence, the second being a programming language laboratory (see Comp 105). Not open to students who have completed Comp 110/110L.

105. COMPUTER PROGRAMMING (1)

Prerequisite: Comp 101 or 110/110L or 106. Instruction and practice in a particular computer programming language as listed below. One 3-hour laboratory per week per unit.

- COMP 105BAS Computer Programming in BASIC ........1
- COMP 105C Computer Programming in C .................1
- COMP 105COB Computer Programming in COBOL ........1
- COMP 105FOR Computer Programming in FORTRAN ...1
- COMP 105MOD Computer Programming in MODULA ....1
- COMP 105PAS Computer Programming in PASCAL .......1

106. COMPUTING IN ENGINEERING AND SCIENCE (2)

Corequisites: Math 150B. An introduction to computing, problem solving and programming intended for science and engineering majors. Programming practice in a high level structured language. Lab projects involve both micro computers and main frames.

106L. COMPUTING IN ENGINEERING & SCIENCE LAB (1)

Corequisite: Comp. 106. One 3-hour laboratory per week.

110. INTRODUCTION TO ALGORITHMS & PROGRAMMING (3)

Corequisite: Math 150A, Freshman Composition and Comp 110L. Introduction to algorithms, their representation, design, structuring, analysis and optimization. Implementation of algorithms as structured programs in a high level language.

110L. INTRODUCTION TO ALGORITHMS & PROGRAMMING LABORATORY (1)

Corequisite: Comp 110. One 3-hour laboratory per week.

122. INTRODUCTION TO COMPUTER SYSTEMS (3)

Prerequisite: Comp 110, 110L and Freshman Composition; Corequisite: Math 150B. An introduction to computer architecture, assembly language programming, system

160. NAVIGATING THE INTERNET (1)
Prerequisite: Prior usage of a computer equivalent to Comp 100. Corequisite: Comp 160L. The Internet and its role as the backbone of the information superhighway is changing the way a growing percentage of the public communicates, gathers information for research and persona knowledge, and relaxes. Methods of accessing computer-based information on the Internet will be explored and the social implications of the existence of the information highway will be studied. Topics covered include: Internet, World Wide Web, HTML and homepages, commercialization of the Internet, and the Internet’s role in society. (Available for General Education, Applied Arts and Sciences.)

160L. NAVIGATING THE INTERNET LAB (1)
Prerequisite: Prior usage of a computer equivalent to Comp 100. Corequisite: Comp 160. The lab is intended to reinforce the material presented in the lecture. Hands-on experience will be provided on the usage of various Internet services. A one unit lecture course accompanies the lab. (Available for General Education, Applied Arts and Sciences.)

165. COMPUTER GRAPHICS (2)
Corequisite: Comp 100 suggested. An introduction to computer graphics and elementary computer graphics programming. Survey of graphic devices and systems; programming languages and program procedures for graphic output; existing collections of program graphics procedures for inclusion in student programs.

165L. COMPUTER GRAPHICS LABORATORY (1)
Corequisite: Comp 165. One 3-hour laboratory per week.

182. DATA STRUCTURES AND PROGRAM DESIGN (3)
Prerequisite: Comp 110/110L and Freshman Composition; Corequisite: Math 150B and Comp 182L. Introduction to data structures and the algorithms that use them. Review of composite data types such as arrays, records, strings, and sets. The role of the abstract data type in program design. Definition, implementation, and application of data structures such as stacks, queues, linked lists, trees, and graphs. Recursion. Use of time complexity expressions in evaluating algorithms. Comparative study of sorting and searching algorithms.

182L. DATA STRUCTURES LAB (1)
Corequisite: Comp 182. One 3-hour laboratory per week.

196. EXPERIMENTAL COURSES IN COMPUTER SCIENCE (1-4)

222. COMPUTER ORGANIZATION (3)
Prerequisites: Comp 122, 182/182L. Extension of basic addressing concepts to more advanced addressability such as base register and self-relative addressing. Comparative computer architecture focusing on such organizations as multiple register processors and stack machines. Basics of virtual memory input-output. Introduction to the concept of microprogrammable systems. Low level language translation process associated with assemblers. System functions such as relocatable loading and memory management. Application of data structure and hashing techniques to the above. Other related topics.

232. CONCEPTS OF PROGRAMMING LANGUAGES (3)
Prerequisites: Comp 122, 182/182L. Discussion of issues in the design, implementation, and use of high-level programming languages. Historical background. How languages reflect different design philosophies and user requirements. Technical issues in the design of major imperative (procedural) programming languages. Other approaches to programming: functional programming, logic programming, and object-oriented programming.

265. GRAPHICS PROGRAMMING (1)
Prerequisite: Comp 232 or Comp 165. Fundamentals of computer graphics (devices, languages, procedures and packages). Programming from simple graphics to a complete graphics package for a given application. Individual and team projects encouraged.

265L. GRAPHICS PROGRAMMING LABORATORY (1)
Corequisite: Comp. 265. One 3-hour laboratory per week.

282. ADVANCED DATA STRUCTURES (3)

296. EXPERIMENTAL COURSES IN COMPUTER SCIENCE (1-4)

UPPER DIVISION

310. AUTOMATA, LANGUAGES, AND COMPUTATION (3)
Prerequisites: Math 326, Phil 230. Study of the relation of languages (i.e. sets of strings) and machines for processing these languages, with emphasis on classes of languages and corresponding classes of machines. Phrase structure languages and grammar. Types of grammars and classes of languages. Regular languages and finite state automata. Context-free languages and pushdown automata. Unrestricted languages and Turing Machines. Computability models of Turing, Church, Markov, and McCarthy. Applications to programming languages, compiler design, and program design and testing.

322. INTRODUCTION TO OPERATING SYSTEMS AND SYSTEM ARCHITECTURE (3)
Prerequisites: Comp 222, 232, and 282. Corequisite: Comp 322L. Examination of the principal types of systems including batch, multi-programming, and time-sharing. Networked systems are also discussed. The salient problems associated with implementing systems are considered including interrupt of event driven systems, multi-tasking, storage and data base management, and input-output. Emphasis will be placed on some of the simple algorithms used to solve common problems encountered such as deadlocks, queue service, and multiple access to data. Projects will be implemented to reinforce the lectures.

322L. OPERATING SYSTEMS LABORATORY (1)
Corequisite: Comp 322. One 3-hour laboratory per week.

332. PROGRAMMING LANGUAGE SEMANTICS (3)
Prerequisites: Comp 222, 232, 282, 310. Study of the meaning of programming languages. Loop invariants, induction, and termination. Axiomatic systems, operational semantics, syntax directed translation, introduction to denotational semantics.
370. NUMERICAL METHODS FOR COMPUTING (3)
Prerequisites: Comp 110/110L, Comp 122, Math 262.
Error growth, linear and nonlinear systems, eigenvalues, interpolation, approximation, integration, ordinary and partial differential equations. Topics from parallel algorithms, optimization, high precision arithmetic, cryptography. Programming assignments will involve the comparison of algorithms and the analysis or error.

380. INTRODUCTION TO SOFTWARE ENGINEERING (3)
Prerequisites: Comp 222, 232, 282. Concepts and techniques for systems engineering, requirements analysis, design, implementation and testing of large scale computer systems. Principles of software engineering for production of reliable, maintainable and portable software products. Emphasis on functional analysis and structured design techniques. Topics include unit, integration and systems testing, configuration management, and software quality assurance practices. Participation in group activities involving analysis, design and implementation of a software intensive system. Introduction to Computer Aided Software Engineering (CASE).

396. EXPERIMENTAL COURSES IN COMPUTER SCIENCE (1-4)

409/L. FUNDAMENTALS OF COMPUTER-AIDED MANUFACTURING (2/1)
Prerequisites: Senior standing, MSE 408, MSE 412, or instructor’s permission. An introduction to computer-aided manufacturing. Topics include basic issues in CAM and CIM; fixed, programmable, and flexible automation; introduction to numerical control technology; manual NC programming; the APT language; post-processing; graphical NC programming; NC programming with CAD/CAM systems; multiaxis part programming; and application areas. Two hours lecture and one 3-hour laboratory.

410. LOGIC PROGRAMMING (3)
Programming techniques in the logic programming language PROLOG. Prenex conjunctive normal form and grammatical algorithms. Tableaux, sequenzen, resolution, and other semi-decision procedures. Closures of relations, fixed point theory, control mechanisms, relationship to functional programming.

420. ADVANCED OPERATING SYSTEM CONCEPTS (3)
Prerequisites: Comp 322/322L, 380. An in-depth discussion of selected issues related to the study of operating systems. Areas of coverage may include concurrency issues, resource allocation, storage management, and multiprocessor environments. Underlining theory and algorithms related to the issues will be discussed.

421. THE UNIX ENVIRONMENT FOR PROGRAMMERS (3)
Prerequisites: Comp 322/322L, 380. Usage of UNIX in a software development environment; rapid prototyping of large projects. Study available utilities, programming styles, efficiency issues, and operating system interfaces. Gain an advanced understanding of UNIX and its use in improving programmer productivity.

422. ADVANCED COMPUTER AND OPERATING SYSTEM ARCHITECTURES (3)
Prerequisites: Comp 322/322L, EE 320. Study of interactions of computer and operating system architectures and the constraints they place on the operational capabilities and performance. Examination of evolutionary trends in computational architectures. This course is not available for graduate credit.

424. COMPUTER SYSTEM SECURITY (3)
Prerequisite: Comp 322/322L, 380. An analysis of the need for computer system security, and the security techniques in operating systems, data bases, and computer networks. Supporting techniques such as auditing, risk analysis, and cost-benefit tradeoffs are discussed.

426. FAULT-TOLENT software and computing (3)
Prerequisites: Comp 322/322L, Comp 380. An examination of dependability requirements in computing, and the basic principles of system-level reliability and fault-tolerance. Software-based implementation of fault-tolerance in distributed systems. Fault-tolerant software and data bases: reliability modeling, fault-tolerance techniques (e.g., recovery blocks, N-version programming), and design approaches.

429. COMPUTER NETWORK SOFTWARE (3)
Prerequisites: Comp 322/322L, 380, and Math 340 or Math 441. Basic software design and analysis considerations in networking computers into coherent, cooperating systems capable of processing computational tasks in a distributed manner. Network topology, routing procedures, message multiplexing and process scheduling techniques.

430. LANGUAGE DESIGN AND COMPILERS (3)
Prerequisites: Comp 380. An examination of the issues involved in the design and subsequent implementation of programming languages. Considerations of the implementation difficulties of including various features in a programming language. Tools and techniques to facilitate both the processing of programming languages and the building of programming processors.

431. COMPUTER MODELING AND SIMULATION (3)
Prerequisites: Comp 380 or ME 309 and Math 340, 440A, or 441. A conceptual foundation for discrete event and continuous time simulation on computers is presented. Statistical considerations such as random number generation, design of experiments, output analysis and model correctness are considered. Programming in discrete event simulation languages such as GPSS, Simscript or SIMULA. Implementation issues for simulation languages.

432. OBJECT-ORIENTED PROGRAMMING (3)
Prerequisite: Comp 322/322L. Principles of object-oriented design and programming; object-oriented languages such as Simula, C++ and Smalltalk will be compared to provide an understanding of the role of objects, methods, message passing, encapsulation, classes, inheritance and instance variables in a productive programming environment. Language design and programming issues will be discussed.

440. DATABASE DESIGN (3)
Prerequisite: Comp 380. Database structure including: structure definition, data models, semantics of relations, operation on data models. Database schemas: element definition, use and manipulation of the schema. Elements of implementation. Algebra of relations on a database. Hierarchical data bases. Discussion of information retrieval, reliability, protection and integrity of databases.

450. SOCIETAL ISSUES IN COMPUTING (3)
Prerequisites: Comp 380 and senior standing. A survey course on the role of the digital computer in modern society. The dangers of the misuse of computers (as in the invasion of privacy), as well as the proper and intelligent use of the machines, are discussed. This course is not available for graduate credit.
461. ELECTRONIC DOCUMENT PROCESSING (3)

465. COMPUTER GRAPHIC SYSTEMS AND DESIGN (2)
Prerequisite: Comp 380. Fundamental concepts of computer graphics. Graphics devices; graphics languages; interactive systems. Applications to art, science, engineering and business. Trade-offs between hardware devices and software support.

465L. COMPUTER GRAPHIC SYSTEMS AND DESIGN LABORATORY (1)
Corequisite: Comp 465. One 3-hour laboratory per week.

467/L. MULTIMEDIA SYSTEMS DESIGN (3/1)
Prerequisite: Comp 380. Study of fundamentals of multimedia storage, processing, communication, presentation, and display by digital means with emphasis on audio, still images and video media. Includes sampling theory, compression techniques and synchronization. Discussion of hypermedia and methodology issues. Multimedia programming; software tools for authoring multimedia applications and interfaces.

469. INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3)
Prerequisites: Comp 310, 380. An exploration of the use of computers to perform computations normally associated with intelligence. These include game playing, theorem proving, problem solving, question answering and visual perception. Topics covered will include languages, system architectures and heuristic strategies for advanced, high level computations. Also covered will be computational models for knowledge representation, natural language and vision.

480. SOFTWARE SYSTEM DEVELOPMENT (2)
Prerequisite: Comp 380. A project-oriented course to allow the students to apply their knowledge to the design of a large system. The student will identify a suitable computer problem, examine various methods of attacking it, choose a suitable one, and realize a solution in an appropriate computer language.

480L. SOFTWARE SYSTEM DEVELOPMENT LABORATORY (1)
Corequisite: Comp 480. One 3-hour laboratory per week.

485. HUMAN-COMPUTER INTERACTION (3)
Prerequisite: Comp 380. The information exchange between humans and computer systems will be examined. Aspects of input/output devices, software engineering, and human factors will be discussed with respect to human-computer interactions. Topics include: text and graphic display; user modeling; program design, debugging, complexity and comprehension; and current research studies and methodologies.

487. SOFTWARE ENGINEERING WITH ADA (3)
Prerequisites: “C” or better in Comp 322/322L, 380. Study of Ada’s syntax and semantics as a programming language. The elements of object oriented programming and its application in the context of Ada will be discussed. Design of real-time software with Ada will be covered with examples and assignments. Emphasis will be placed on development of quality software with high reliability, portability and maintainability.

494. HCP. HONORS CO-OP (3-3)
Prerequisite: Second semester junior standing in major, upper division writing requirement, minimum 3.0 GPA. Co-op Training Program. Supervised off-campus professional computing experience for selected Honors students. Honors Co-op units do not count toward General Education units or major requirements.

496. EXPERIMENTAL COURSES IN COMPUTER SCIENCE (1-4)

499. INDEPENDENT STUDY (1-3)

GRADUATE

(300-level courses in Computer Science do not carry credit for a masters’ degree in Computer Science. 400-level courses required for the B.S. in Computer Science do not carry credit for the masters’ degree.)

511. ROBOTICS: FUNDAMENTALS AND APPLICATIONS (2)
Prerequisite: Consent of instructor. Introduction to the fundamentals of robotics, including motion and power, control, sensors, vision systems, and programming languages. Mathematical models, robot training, and the relationship to artificial intelligence will be considered. The application of robots and their integration into existing or proposed systems will be discussed. Students are expected to complete two projects as part of the course requirements. Same as MSE 411.

511L. ROBOTICS: FUNDAMENTALS AND APPLICATIONS LABORATORY (1)
Corequisites: Comp 511. One 3-hour laboratory per week.

518. ALGORITHMS AND DATA STRUCTURES (3)
This one course on programming and data structures covers all of the topics of Comp 110, Comp 110L and Comp 182. The laboratory involves programming design of significant projects in a high level programming language. This intensive course is open only to graduate students and cannot be used to satisfy the requirement at 30 units of approved graduate work.

518L. ALGORITHMS & DATA STRUCTURES LABORATORY (1)
Corequisite: Comp 518. One 3-hour laboratory per week.

529. ADVANCED NETWORK TOPICS (3)
Prerequisite: Comp 429. Advanced course on design and analysis of high-speed networks (Broadband ISDN and Asynchronous Transfer Mode [ATM] networks) and their protocols. Topics include: multimedia services integrating techniques including synchronous and asynchronous transfer modes. ATM standards. ATM switch architecture, ATM network traffic control, ATM experimental networks, high-speed LAN/MANs, internetworking with high-speed networks, and simulation techniques.

535. PARALLEL AND DISTRIBUTED COMPUTING
Prerequisites: Comp 322/322L. An examination of the issues necessary to program a set of computational resources to solve large, complex problems. Coverage of the issues inherent to parallel processing via a distributed programming model. Exposure to tradeoffs between communication and computation: scalability, concurrency, software engineering costs, etc.

560. EXPERT SYSTEMS (3)
Prerequisite: Comp 469 (Comp 485 desirable). Extensive introduction to the concepts and techniques of expert systems. Rationale for such systems including evaluation of prospective domains. Existing systems, those under
development and likely future areas will be explored. Basic architecture is demonstrated using both example and rule-based systems. Commercial tools for building expert systems are surveyed and evaluated. Of special concern will be knowledge acquisition methods. Guidelines for planning and managing development projects will be given.

565. ADVANCED COMPUTER GRAPHICS (2)
Prerequisite: Comp 322/322L, or consent of instructor. Comp 465/465L or equivalent is recommended. This course will cover the theory, design, implementation, and application of advanced computer graphics environments. Virtual Reality (VRML and immersive VR), 3-D computer games, scientific visualization, and accelerated graphics APIs will be studied. The class requires a substantial software design and development effort by students.

565L. ADVANCED COMPUTER GRAPHICS LAB (1)
Corequisite: Comp 565. One 3-hour laboratory per week.

585. GRAPHICAL USER INTERFACES (2)
Prerequisites: Comp 322/322L. The design and development of applications requiring graphical, direct manipulation, user interfaces will be examined using X Windows. The development of X Window applications will be compared with other graphical user interfaces (GUIs). Future GUIs, such as virtual realities, will be reviewed from the perspective of application design, development and development tools. Projects will require the use of advanced graphics workstations and provide GUI software design and development experiences.

585L. GRAPHICAL USER INTERFACES LABORATORY (1)
Corequisite: Comp 585. One three hour laboratory per week.

586. OBJECT-ORIENTED SOFTWARE DEVELOPMENT (3)

588. SOFTWARE ENGINEERING ECONOMICS (3)
Prerequisite: A grade of “B” or better in Comp 380. An examination of the economic aspects of software development projects. Software development project variables, controls, analytic tools and the contexts of their use. Models of software development as educational as well as estimation tools. Software complexity compared to project accounting and managerial complexities. Current state-of-the-art, research trusts, open questions in software economics.

595. SELECTED TOPICS (1-4)

609. ADVANCED TOPICS IN CAD/CAM (3)
Prerequisites: MSE 408 and either MSE 603 or Comp 667, or equivalent with instructor’s permission. Areas of current interest in Computer-Aided Design and Manufacturing. Topics include computer graphics software and hardware, mathematical basis of geometric modeling, data base management in manufacturing environments, user interface design considerations, and the CAD/CAM/CIM marketplace. Same as MSE 609.

610. DATA STRUCTURES AND ALGORITHMS (3)
Prerequisites: A grade of “B” or better in Comp 310, 380, and Math 482, or demonstrate required level of proficiency. Topics include: design strategies for data structures and algorithms; theoretical limits to space and time requirements; time/space trade offs; open problems in the field.

615. ADVANCED TOPICS IN COMPUTATION THEORY (3)
Prerequisites: A grade of “B” or better in Comp 310 and Math 482, or demonstrate required level of proficiency. Languages and the theory of computation are studied in depth. Advanced material concerning regular and context free languages is covered. Deterministic context free languages, context sensitive languages, recursive and recursively enumerable sets are studied. Current areas of interest are investigated.

620. COMPUTER SYSTEM ARCHITECTURE (3)
Prerequisites: A grade of “B” or better in Comp 322/322L or Comp 420, and EE 320, or demonstrate required level of proficiency. Analysis and evaluation of individual computers, networks of computers and the programs which support their operation and use. Emphasis will be on comparison of architectures and the risks and benefits associated with various approaches and configurations.

630. FORMAL SEMANTICS OF PROGRAMMING LANGUAGES (3)
Prerequisites: A grade of “B” or better in Comp 380 and Comp 310, or demonstrate required level of proficiency. Rigorous verification and formal proofs of correctness. Denotational semantics, models of axiomatic systems, fixpoint theory of computation. Soundness and completeness of programming logics. Abstract data types and other issues in the formal definition of programming languages.

667. CAD/CAM SYSTEMS DESIGN (3)
Prerequisites: MSE 408 and Comp 465/465L or equivalents with instructor’s permission. Data structures and algorithms necessary to design and implement computer systems in manufacturing environments. Existing and anticipated technology will be discussed and evaluated. Students will design, implement, test, and evaluate CAD/CAM systems by building upon standard computer graphics packages.

680. SOFTWARE ENGINEERING (3)
Prerequisite: A grade of “B” or better in Comp 380, or demonstrate required level of proficiency. An examination of the critical theoretical problems underlying the specification, design, development and evaluation of large software systems, and the extent to which existing techniques and methodologies cope with these problems.

695. SELECTED TOPICS (1-4)

696. DIRECTED GRADUATE RESEARCH (2-3)
Prerequisite: Permission of chair of project/thesis committee. For Credit/No Credit only.

698. THESIS OR GRADUATE PROJECT (2-6)

699. INDEPENDENT STUDY (1-3)
DEAF STUDIES
Chair: Lawrence R. Fleischer

COLLEGE OF EDUCATION
Department Office: Education Building, Room 1202
Phone: (818) 677-4973 (TTY)
(818) 677-5116 (Voice)
Fax: (818) 677-5717
E-mail: deaf.studies@csun.edu
Website: http://www.csun.edu/~sch_educ/dfst/dfst.html
Administrative Coordinator: Ken Rappe

FACULTY: Mel Carter, Tracy Clark, Lawrence Fleischer (Chair), Genie Gertz

DEGREES OFFERED: Bachelor of Arts in Deaf Studies

AREAS OF CONCENTRATION:

Concentration I: Communication Sciences & Services
Concentration II: Language & Culture
Concentration III: Human Services
Concentration IV: Special Option (Individually Developed)

ACADEMIC ADVISEMENT: Deaf Studies majors are assigned a faculty advisor according to their concentration. Prospective, new, and continuing students are encouraged to meet with their faculty advisor each semester for assistance in formulating academic and career plans. Appointments can be made by calling the Deaf Studies Department office.

THE MAJOR: The primary objectives of the Deaf Studies major are:

- To convey basic knowledge and understanding about the language and culture of deaf people including their history and social experiences
- To provide students with instruction and training in preparation for advanced degree programs and/or professional careers working with deaf people

CSUN is proud to be one of only two mainstream institutions in the nation that offers a comprehensive undergraduate program in the area of Deaf Studies and has long been acknowledged as a leader in providing quality education in a variety of deaf-related fields. In addition, CSUN provides Deaf Studies majors with a variety of other unique opportunities including membership in student organizations, interaction with more than 200 deaf/hard-of-hearing students who attend this institution, the most extensive collection of resource materials related to deafness in the western United States, participation in a variety of campus/community events including Deafestivals and ASL/Deaf Theatre productions, and on-the-job training while earning university credit.

CAREERS: During recent years, a number of significant legislative and judicial initiatives and directives have appeared at the federal, state, and local levels to ensure that the approximately 500,000 Deaf Americans have full access to public and private programs and services. As social, community, legal and educational services have expanded nationwide, many career possibilities have opened up for persons interested in professional work in deaf-related fields. The Deaf Studies major at CSUN will provide appropriate exposure and preparation to students interested in careers as sign language interpreters, sign language instructors, counselors, government specialists, audiologists, speech pathologists, program administrators, community service coordinators/advocates, and many other deaf-related vocations.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE
Core requirements include courses in sign language, linguistics, and a variety of other disciplines that convey basic knowledge and understanding about the language and culture of Deaf people including their history and social experiences. These courses have been strategically selected to provide a solid foundation for entry into any deaf-related career.

(please note that not all American Sign Language (ASL) courses taken at other schools or community colleges are equivalent to CSUN’s sign language courses. ASL coursework will be evaluated by the Deaf Studies Department on an individual basis for Deaf Studies majors. Students with prior sign language experience are encouraged to contact the Deaf Studies Department for advisement and proper placement in ASL classes.)

LOWER DIVISION REQUIRED COURSES (12 UNITS)

- DEAF 160 American Sign Language I............. 4
- DEAF 161* American Sign Language II............. 4
- DEAF 280* American Sign Language III............ 4

UPPER DIVISION REQUIRED COURSES (18 UNITS)

- ANTH 310* Language in Culture:
  Anthropological Linguistics.................. 3
- or
  ENGL 405* Language Differences and
  Language Change......................... 3
- DEAF 250 Principles of Sign Language
  Interpretation....................... 3
- or
  CD 446* Auditory Habilitation.................. 3
  CD 345* Hearing Science...................... 3
- DEAF 360 American Deaf Culture................. 3
- DEAF 435* Total Communication -
  Manual Component.......................... 3
- DEAF 484* Structure of American Sign Language 3

CONCENTRATIONS (21 UNITS MINIMUM)

Elective courses for each concentration are selected from related disciplines to provide in-depth career education and preparation. A minimum of 21 units is required from one of the following career options:

CONCENTRATION I:
COMMUNICATION SCIENCES & SERVICES (21 UNITS)

REQUIRED COURSES (6 UNITS)

- COMS 150 Process of Communication.............. 3
- or
  COMS 350 Nonverbal Communication.............. 3
- or
  COMS 451 Interpersonal Communication........... 3
  COMS 365* Intercultural Communication........... 3

ELECTIVES (15 UNITS)

- CD 340 Phonetics.................................. 3
- CD 360 Speech Development and
  Communication Disorders...................... 3
- CD 442 Speech Science.......................... 3
- CD 462 Language Development and
  Language Disorders.......................... 3
- DEAF 250 Principles of Sign Language
  Interpretation.............................. 3
- DEAF 281* American Sign Language IV........... 4
- DEAF 370* American Sign Language/English
  Translation................................. 3
- DEAF 380* Sign Language Interpreting I.......... 3
- DEAF 381* Sign Language Interpreting II........ 3
- DEAF 382* Sign/English Transliteration........... 3
- DEAF 383 Sign Language Interpretation Lab ......1-3
- DEAF 482* Practicum in Sign Language Interpreting 3


DEAF 485* Issues in American Sign Language........3
COMS 350 Nonverbal Communication.........................3
COMS 450* Communication Research Methodology........3
COMS 451 Interpersonal Communication......................3
TH 343* Intermediate Stage Voice and Speech.............3

CONCENTRATION II: LANGUAGE & CULTURE (21 UNITS)
REQUIRED COURSES (7 UNITS)
DEAF 281* American Sign Language IV..................4
DEAF 485* Issues in American Sign Language........3

ELECTIVES (14 UNITS)
DEAF 370* American Sign Language/English Translation..3
DEAF 436* Sign Language Teaching..........................3
DEAF 496F* Deaf People and Hearing People: A Comparative Cultural Analysis..3
LING 306* Language Acquisition............................3
LING 402* Phonetics and Phonology.........................3
LING 404* Syntax..............................................3
LING 408* Semantics and Pragmatics.........................3
SED 492 Audiovisual Instruction—Methods and Techniques..3
SOC 305* Culture and Personality..........................3
COMS 150 Process of Communication.......................3
COMS 351 Communication Theory...........................3
COMS 356 Intercultural Communication.....................3
COMS 450* Communication Research Methodology........3

CONCENTRATION III: HUMAN SERVICES (21 UNITS)
REQUIRED COURSES (7 UNITS)
DEAF 496F* Deaf People and Hearing People: A Comparative Cultural Analysis..3
PSY 370 Dynamics of Individual Behavior................3
PSY 370L* Research Seminar in Dynamics of Individual Behavior........1

ELECTIVES (14 UNITS)
ANTH 311* Human Variation..................................3
POLS 360 Public Administration..............................4
POLS 465 Administrative Behavior...........................3
PSY 310 Behavior Disorders................................3
PSY 460* Counseling and Interviewing..................3
PSY 465 Aging................................................3
PSY 483 Principles of Human Relations....................3
PSY 498C Practicum in Psychology........................3
SOC 307* Ethnic Diversity in America....................3
SOC 345 Social Psychology..................................3
SOC 356 Introduction to Social Welfare....................3
SOC 357 Introductory Social Work Methods................2
SOC 357P Introductory Social Work Practicum............1
SOC 400 Organizational Analysis............................2
SOC 426* Social Legislation and Social Policy............4
SOC 472 Proseminar in Social Welfare Practice........3
SOC 475AEE* Supervised Field Instruction I.............3
SOC 492* Dynamics of Social Behavior and Development..3

CONCENTRATION IV: SPECIAL OPTION
With the guidance of faculty advisor(s), students can develop a curriculum of field-specific elective courses to complement the Deaf Studies core requirements which reflect their specialized career interests (not part of Concentration I-III above). The requirements for a Deaf Studies special option are:

1. Before the student has completed ninety (90) units, meet with a Deaf Studies faculty advisor to discuss career objectives and an educational plan of

1 Indicates a Prerequisite. (Consult the course list for the appropriate discipline.)

proposed courses totaling 21-22 units (a minimum of 16 units must be upper division); and
2. Submit the program of study to the Department Chair for his evaluation and approval.

TOTAL UNITS IN THE MAJOR (51 UNITS MINIMUM)
GENERAL EDUCATION (52 UNITS)
At least 9 units must be upper division

TITLE 5 (6-9 UNITS)

ADDITIONAL UNITS (12-15 UNITS)
TOTAL UNITS REQUIRED FOR THE DEGREE: 124
(The above requirements and related subjects are described in detail in the “Undergraduate Programs” section of this catalog.)

COURSE LIST
LOWER DIVISION

101. SIGN COMMUNICATION FOR DEAF AND HARD-OF-HEARING PEOPLE (3) (Formerly SPED 101)
Provides basic sign communication skills for Deaf and hard-of-hearing students with little or no previous knowledge of sign language. Emphasis is on learning various vocabulary items and structures used in college classrooms and on giving students an opportunity to practice coordinating communication with classroom interpreters. Credit/No Credit only.

160. AMERICAN SIGN LANGUAGE I (4) (Formerly SPED 160)
A study of the fundamentals of American Sign Language: Preparation for visual/gestural communication including basic information relating to Deaf culture, intensive work on comprehension skills and grammatical structures. Not open to native signers.

161. AMERICAN SIGN LANGUAGE II (4) (Formerly SPED 161)
Prerequisite: Completion of DEAF 160 or equivalent. Continuation of the study of the fundamentals of American Sign Language: Comprehension skills, grammatical structures, practice in the expressive aspects of the language, and exposure to Deaf culture. Not open to native signers.

250. PRINCIPLES OF SIGN LANGUAGE INTERPRETATION (3) (Formerly SPED 250)
Introductory overview of the profession of sign language interpretation. Forms the theoretical foundation for all other work in sign language interpretation. Particular emphasis on the professional code of ethics and other professional concerns.

280. AMERICAN SIGN LANGUAGE III (4) (Formerly SPED 280)
Prerequisite: Completion of DEAF 161 or equivalent. Continuation of the study of the fundamentals of American Sign Language: Comprehension skills, advanced grammatical structures, continued emphasis on expressive skills and aspects of Deaf culture. Not open to native signers.

281. AMERICAN SIGN LANGUAGE IV (4) (Formerly SPED 281)
Prerequisite: Completion of DEAF 280 or equivalent. Emphasis on expressive/conversational skills in American Sign Language along with continued focus on grammatical and cultural features. Not open to native signers.
434A. FINGERSPELLING I (1)  (Formerly SPED 434A)
Prerequisite: DEAF 280 or equivalent. Develops basic skills in receptive and expressive fingerspelling. Strongly recommended for prospective teachers, interpreters, and other professionals working with deaf people. Credit/No Credit only.

434B. FINGERSPELLING II (1)  (Formerly SPED 434B)
Prerequisite: DEAF 434A. Further development of receptive and expressive fingerspelling skills. Strongly recommended for prospective teachers, interpreters, and other professionals working with deaf people. Can be taken twice for credit. Credit/No Credit only.

435. TOTAL COMMUNICATION—MANUAL COMPONENT (3)
(Formerly SPED 435)
Prerequisite: DEAF 280 or equivalent. Examination of the various philosophies and strategies of manual communication used by deaf and hard-of-hearing people. Includes information and current research on American Sign Language, Pidgin Signed English, manual codes for English, Fingerspelling, Cued Speech, Simultaneous Communication, Total Communication, and their relationship to the educational process.

436. SIGN LANGUAGE TEACHING (3)  (Formerly SPED 436)
Prerequisite: DEAF 280 or equivalent. An overview of sign language research and its impact on sign language teaching. Critical analysis of the effect of instructional models in sign language teaching, mainly ASL. Includes discussion on how the concepts found in the research can be best utilized for sign language teaching.

437. SIMULTANEOUS COMMUNICATION (2)
(Formerly SPED 437)
Prerequisite: DEAF 280 or equivalent. Develops the skill of signing (ASL) and speaking (English) at the same time. Emphasis is on building sign vocabulary and fluency in expressive sign language in order to effectively sign and speak at the same time. Credit/No Credit only. Can be repeated.

438. PRACTICUM IN SIGN LANGUAGE INTERPRETING (3)
(Formerly SPED 482)
Prerequisite: DEAF 380 or equivalent. Advanced exposure to and practical experience in sign language interpreting and transliterating. Offered for Credit/No credit only. OFFERED IN FALL ONLY.

439. STRUCTURE OF AMERICAN SIGN LANGUAGE (3)
(Formerly SPED 484)
Prerequisite: DEAF 280 or equivalent. Focus on the grammatical structures and patterns of American Sign Language. View of ASL phonology, morphology, and syntax with emphasis on the practical use of such knowledge. OFFERED IN FALL ONLY.

440. ISSUES IN AMERICAN SIGN LANGUAGE (3)
(Formerly SPED 485)
Prerequisite: DEAF 484. Addresses questions of syntax, language acquisition, and discourse structure in American Sign Language. OFFERED IN SPRING ONLY.

441. INTRODUCTION TO ASL TRANSLATION OF LITERARY AND ARTISTIC WORKS (1)  (Formerly SPED 489)
Prerequisites: DEAF 280 or equivalent and lower division literature course from the Humanities section of General Education (Section C). Introduction to the basic principles
of American Sign Language as applied in various artistic settings; explores the techniques and principles of translating artistic and literary works from English into ASL and from ASL into English.

489L. CREATIVE USES OF AMERICAN SIGN LANGUAGE (2)
(Formerly SPED 489L)
Prerequisites: DEAF 280 or equivalent. Pre- or corequisite: DEAF 489. Provides training in the artistic expression of poetry, storytelling, and song-translation using American Sign Language. Can be taken twice for credit.

496A-Z. EXPERIMENTAL COURSES IN DEAF STUDIES (3) (Formerly SPED 496A-Z)
Experimental courses in Deaf Studies with course content to be determined.

499X-Z. INDEPENDENT STUDY (1-3) (Formerly SPED 499X-Z)
EARTH SCIENCE
(Interdisciplinary Major)
Earth Science Coordinator: Jon Sloan
email: jon.sloan@csun.edu
Telephone: (818) 677-3541
Web Page: http://earthsci.csun.edu/earthsci/

COLLEGE OF SCIENCE AND MATHEMATICS
FACULTY: See Departments of Geography and Geological
Sciences.

ADVISOR: Sloan (Geological Sciences)

ACADEMIC ADVISEMENT: Earth Science majors are required to
consult with the Earth Science advisor for program planning
and approval each semester before engaging in touch tone
registration.

DEGREE OFFERED: B.A. in Earth Science.

THE MAJOR: The major in Earth Science is an interdisciplinary
study of the natural phenomena of Earth. It includes the
fields of physical geography, geology, meteorology and
oceanography. The major is designed to contribute to a
student’s liberal education and prepare the student for
professions in which familiarity with the Earth Sciences is
required.

LEARNING OUTCOMES: The Earth Science Major recognizes three
learning outcomes to be achieved by students who complete
the degree program. 1) Students should demonstrate a
knowledge in the various aspects of Earth Science, including
fundamentals of the earth’s structure, history, and
geomorphology, its atmosphere and oceans, and changes in
global systems through time. 2) Students should be able to
use this knowledge to solve problems using the techniques
and methods of scientific inquiry. 3) Students should
demonstrate an ability to develop and present effective
written and oral presentations of their findings.

CAREERS: An Earth Science degree prepares a student for entry
into Earth Science graduate programs, environmental
science graduate programs, and a variety of private and
government positions where the interdisciplinary nature of
the degree may be required. Included in employment
opportunities are environmental and resource analyst,
EIR/EIS writer or reviewer, GIS analyst, planner, science
writer/editor, conservationist, park naturalist or Earth
Science school teacher. (Students wishing to seek career
opportunities in Geography or Geology should consult
those departments.)

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

LOWER DIVISION REQUIRED COURSES (32-34 UNITS)

<table>
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<th>Subject</th>
<th>Course Code</th>
<th>Course Title</th>
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<td>PHYS</td>
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<td>General Physics I and Lab</td>
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<tr>
<td>PHYS</td>
<td>100B, 100BL</td>
<td>General Physics II and Lab</td>
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<td>GEOL</td>
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<tr>
<td>CHEM</td>
<td>102, 102L</td>
<td>General Chemistry II and Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

Choose one from the following (3-5 Units)

- MATH 150A | Mathematical Analysis I           | 5     |
- MATH 255A | Calculus I                        | 3     |
- MATH 140  | Introductory Statistics           | 4     |

Although biology courses are not required, Earth Science
majors are strongly urged to take a lower division biology
course as an elective. A course in computer science is also
recommended.

UPPER DIVISION REQUIRED COURSES (28-29 UNITS)

- GEOG 311 | Atmosphere                        | 3     |
- GEOG 365, 365L | Geomorphology and Lab | 3     |
- GEOL 322 | Introductory Oceanography         | 4     |
- GEOL 351 | Fundamentals of Paleontology      | 4     |
- ESCI 400 | Changes in Global Systems         | 3     |
- ESCI 490 | Senior Thesis                     | 3     |
- ESCI 497 | Senior Seminar                    | 3     |

Choose one from the following (4 Units):

- GEOL 307  | Petrology                         | 4     |
- or         | GEOL 341, 342 | Sedimentation and Stratigraphy with Field Studies | 4 |

Choose one from the following: 1-2

- GEOG 404V | Field Studies in Geomorphology    | 1     |
- or         | GEOL 231  | Field Studies II                   | 2     |

UPPER DIVISION ELECTIVES (15 UNITS)

Choose 15 units from the courses listed below with a
minimum of 6 units from each group.

a) Geography

- GEOG 364, 364L | World Vegetation & Soils and Lab | 3     |
- GEOG 366       | Geography of Environmental Hazards | 3     |
- GEOG 405, 405L | Geography Information Systems (GIS) & Laboratory | 4     |
- GEOG 411       | World Climate                      | 3     |
- GEOG 412       | Boundary Layer Climatology         | 3     |
- GEOG 413       | Bioclimatology                     | 3     |
- GEOG 414       | Hydroclimatology                   | 3     |
- GEOG 415       | Air Pollution                      | 3     |
- GEOG 416       | Earth’s Changing Climate           | 3     |
- GEOG 459       | Environmental Impact Studies       | 3     |
- GEOG 465, 465L | Fluvial Geomorphology & Lab        | 3     |
- GEOG 466, 466L | Glacial and Periglacial Geomorphology & Lab | 3 |

b) Geology

- GEOG 459       | Environmental Impact Studies       | 3     |
- GEOG 465, 465L | Fluvial Geomorphology & Lab        | 3     |
- GEOG 466, 466L | Glacial and Periglacial Geomorphology & Lab | 3 |

(Any upper division courses in Geological Sciences except
300, 301, 498 and 499.
(Note: These elective courses should be selected in
consultation with the Earth Science advisor. Many of the
courses require concurrent enrollment or prerequisites not
normally a part of the Earth Science Program.)

TOTAL UNITS IN THE MAJOR (75 TO 78 UNITS)

GENERAL EDUCATION (36 UNITS)

Subsection A.3 (Mathematics), Section B (Natural Sciences), and
Section E (Applied Arts and Sciences) are met by required
courses in the Earth Science major.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (4 TO 7 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 124
COURSE LIST

300. FOUNDATIONS OF EARTH SCIENCE (4)
Prerequisites: Completion of the lower division writing requirement; Biology 100 or 101; Physical Science 170. An analysis of the Earth’s physical systems, including the atmosphere, hydrosphere, lithosphere and biosphere. Selected topics include climates of the world, minerals and rocks, flood hazards, aspects of physical oceanography, plate tectonics, geomorphology and natural resources. Course is not available for credit for Earth Science majors. Three hours lecture and one three-hour lab a week.

391. EARTH SCIENCE FIELD EXPERIENCE IN THE PUBLIC SCHOOLS (2)
Prerequisites: ESCI 300/300L. A field experience course designed to give the prospective teacher an appreciation of a quality Earth Science program in the public schools. Requirements include 45 hours of participation in an assigned school and regular group meetings to discuss the classroom experience. Credit/No Credit only.

400. CHANGES IN GLOBAL SYSTEMS (3)
An interdisciplinary examination of natural and human-induced changes in physical, chemical and biological aspects of global systems. The nature and timing of long-term variability in Earth history resulting from internal and external factors such as plate tectonics and insolation cycles. The effects of human population pressure on the lithosphere, hydrosphere, biosphere, and atmosphere, examining such topics as deforestation, the Greenhouse effect, water pollution and erosion. Report writing and case studies required. Lecture 3 hours.

490. SENIOR THESIS (3)
Prerequisite: Senior standing in Earth Science. Preparation of a research proposal and writing of a senior paper under close faculty supervision. The paper is based on independent student research that may involve field work and laboratory experiments. An oral presentation to students and faculty is required.

497. SENIOR SEMINAR (3)
Prerequisite: Senior standing in Earth Science or consent of instructor. In a seminar setting, students will be guided in reading, research, and writing on selected topics within one of the major disciplines of Earth Science. Each seminar will focus on a particular subject within the subdiscipline. The subjects will vary, and be determined each semester.
DEPARTMENT OF ECONOMICS

Chair: Adam Gifford Jr.

COLLEGE OF BUSINESS ADMINISTRATION & ECONOMICS

Department Office: Business Building 3121
Phone: (818) 677-2462
Secretary: Lucy Elizabeth Larson


EMERITUS: Keith D. Evans, Clarence L. Ham, Jora Minasian

DEGREE OFFERED: Bachelor of Arts Degree in Economics

ACADEMIC ADVISEMENT: Faculty members are available for advisement during scheduled office hours.

B.A. MISSION STATEMENT: The mission of the B.A. in Economics, and the Economics faculty, is to teach, research and study economics, and to make available informed economic analysis. The Department will foster pure and applied research in economics and offer courses that will:

• introduce students to the methods of economic reasoning;
• offer a foundation of analytical thinking and knowledge of economics that prepares economics and business students for successful careers;
• prepare students for future employment in the field of economics; and
• prepare students for further education in economics and related disciplines.

THE MAJOR: The Economics Department offers curricula leading to a Bachelor of Arts in Economics degree and participates in course offerings for the Bachelor of Science in Business Administration and Bachelor of Science in Accountancy degrees.

As Economics majors, students study analytical models of particular markets and of the economy as a whole. They examine how scarcity affects the incentives that individuals and businesses face in a market economy, and the impact of changes in those incentives. The study of scarcity and incentives enables economics graduates to predict likely changes in technology, regulation, and the market in general and how those changes will impact them and their firms. In addition, the analytical precision of economics helps students develop critical-thinking skills that are highly valued in the job market.

Economics also teaches written and oral communications skills. While these skills may be obtained in many majors, the Economics major at CSUN has made them a priority. Every upper division Economics class at CSUN requires a substantial written component. Many classes also require oral presentation of class projects.

THE ECONOMICS HONORS PROGRAM: The Economics Honors program is designed to offer academically talented students a variety of opportunities to enrich their academic and personal lives throughout their educational experience here at California State University, Northridge. The program is open only to students who are declared majors in the Bachelor of Arts in Economics degree program, meet all Honors Program admission criteria, and are selected by the Economics Honors Program Admissions Committee. Students accepted into the program are offered a variety of benefits including honors designated economics courses, mentorship program, closer working relationship with faculty members, and a special Honors designation on their final graduation transcripts. Students interested in the program can obtain more information at the Economics Department Office, (818) 677-2462, or with the coordinator of the Economics Honors Program.

CAREERS: Students obtaining a Bachelor of Arts Degree in Economics have diverse career goals. For many, the Economics major provides a useful background for a business career while for others the major is preparation for graduate study in Law, Economics or Public Policy.

According to the National Science Foundation’s “National Survey of College Graduates” for 1993, the most common careers for students with a bachelor of arts in Economics were top and mid level manager (18.4% of majors); insurance, securities and real estate services (10.7% of majors); and accountants, auditors and other financial specialists (8.8% of majors). Other common occupations for Economics majors included computer systems analysts (4% of majors) as well as marketing and sales jobs (3.9%). Only 2.2% of students whose highest degree was a bachelor’s in economics described themselves as "economists" in the survey. The same survey reports that the salaries earned by economics majors nationwide are highly competitive with those earned by business and other highly paid majors.

SPECIAL GRADE REQUIREMENTS

NOTE: Transfer students should be aware that no grade lower than “C” will be accepted on transfer from another institution to satisfy Department requirements. Graduate level Economics courses are available to be taken within the Master of Business Administration degree (see MBA program description in this catalog).

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

LOWER DIVISION REQUIRED COURSES (13-18 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 200</td>
<td>Foundations of Accounting Information</td>
<td>4</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSCI 291</td>
<td>Statistical Methods in Business and Economics</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 391</td>
<td>Statistical Theory in Business</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 205</td>
<td>Analysis of Communications for Business</td>
<td>3</td>
</tr>
<tr>
<td>ENG 305</td>
<td>Intermediate Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 306</td>
<td>Report Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

MATH PROFICIENCY REQUIREMENT (3-5 UNITS)

Completion with a “C” or better in (a) MATH 103 or (b) MATH 150A or (c) MATH 255A or (d) transfer equivalent.

UPPER DIVISION REQUIRED COURSES (24 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 310</td>
<td>Price Theory and Applications</td>
<td>3</td>
</tr>
<tr>
<td>ECON 311</td>
<td>Money, Income, and International Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 401</td>
<td>Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 412</td>
<td>Seminar in Economic Thought</td>
<td>3</td>
</tr>
</tbody>
</table>

Four courses chosen from any Economics Department listing; except Econ 300. (12 Units)

TOTAL UNITS IN THE MAJOR (40 TO 42 UNITS)

GENERAL EDUCATION (49 UNITS)

Courses in Economics do not satisfy General Education section requirements for Economics majors. Three units of the mathematics proficiency is part of Section A3, general education.
TITLE 5 (6 UNITS)
US History and State and Local Government

ADDITIONAL UNITS (22 TO 29 UNITS)
These are unrestricted elective units. NOTE: The University requires at least 40 upper division units for the B.A. degree.

TOTAL UNITS REQUIRED FOR THE DEGREE: 124.

MINOR IN ECONOMICS

UPPER DIVISION REQUIRED COURSES (9 UNITS)
ECON 200 Principles of Economics ..............................3
ECON 310 Price Theory and Applications ..........................3
ECON 311 Money, Income, and International Economics ........................................3

Student must select 9 units from any 300- or 400-level Economics course except ECON 300.

TOTAL UNITS IN THE MINOR (18 UNITS)

URBAN STUDIES PROGRAM
The Department of Economics, in conjunction with the Department of Geography, Political Science, and Sociology, offers an interdisciplinary program for those persons who wish to acquire a general background in urban affairs. The curriculum for the Urban Studies Program is described in the CSUN Catalog.

COURSE LIST

LOWER DIVISION

200. PRINCIPLES OF ECONOMICS (3)
Prerequisite: Qualifying scores on ELM and EPT, or exemption, or satisfactory completion of appropriate developmental courses. An introduction to Economics presenting the basic interactions of individuals, firms and government in a market-oriented economy. The course includes analysis of market prices, interest rates, international trade and the role of monetary and fiscal policies in promoting economic growth and stability. (Available for General Education, Social Sciences.)

UPPER DIVISION

300. ECONOMIC PRINCIPLES AND PROBLEMS (3)
Prerequisites: Not open to Business and Economics majors or to students who have had ECON 200; completion of the lower-division writing requirement. A survey course of the basic principles governing the allocation and utilization of resources. Topics include determination of prices and wages. Monopoly, taxation, employment, determination of national income, price stability, international trade, growth, and development. (Available for General Education, Social Sciences.)

310. PRICE THEORY AND APPLICATIONS (3)
Prerequisites: ECON 200 and MATH 103 or equivalent with the grade of ‘C’ or better. The operation of the price system in market-oriented economies. Special emphasis is placed on consumer behavior, business behavior, market organization, the theory of production and cost, economic welfare, and applications to international trade. Substantial written work will be required of all students. (Available for General Education, Social Sciences.)

311. MONEY, INCOME, AND INTERNATIONAL ECONOMICS (3)
Prerequisite: ECON 200 or ECON 300. An examination of money markets, the Federal Reserve system, foreign exchange markets, the international financial system and their relationship to macroeconomic policy. Topics of special interest include the determination of income, interest rates, exchange rates and international lending. Substantial written work will be required of all students. (Available for General Education, Social Sciences.)

320. LABOR ECONOMICS (3)
Prerequisites: ECON 310; ECON 310 may be taken concurrently with ECON 320. An introduction to selected labor topics including the following: development of labor organization in the United States, collective bargaining, labor market analysis, wage determination, government and labor, and social security legislation. OFFERED IN SPRING.

348. ECONOMIC HISTORY OF EUROPE (3)
Prerequisite: ECON 310. An examination of the economic growth of Europe with emphasis on the interaction of natural, technological, political and social forces that shaped economic change. The course stresses the development and evolution, from feudal times to the present, of European institutions which affect the production of wealth and allocation of resources. OFFERED IN SPRING.

350. URBAN ECONOMICS (3)
Prerequisites: ECON 200 or ECON 300. Determinants of urban area income and growth. Analysis of the distribution of activities and the variation of factor prices within urban area. Economic analysis of urban housing and blight, poverty, pollution, congestion, law enforcement, optimal city size, urban finances and services.

360. ENVIRONMENTAL ECONOMICS (3)
Prerequisites: ECON 200 or ECON 300; completion of the lower-division writing requirement. Focuses on environmental issues and policies. Areas include air, water, noise, and toxic waste pollution, quality of life concerns, and open space and recreational area availability. The benefits and costs of current and alternative environmental policies are analyzed. Specific attention is given to the relation between energy resource development and usage and the environment. (Available for General Education, Social Sciences.) OFFERED IN FALL.

365. LAW AND ECONOMICS (3)
Prerequisite: ECON 310. An examination of the effects of the legal system on the allocation of resources. Selected topics include the economic implication of property rights, contract law, products liability and the criminal justice system. OFFERED IN FALL.

375. ECONOMIC HISTORY OF THE UNITED STATES (3)
Prerequisites: ECON 310. History of United States economic development, including economic analyses of major historical issues. OFFERED IN FALL.

380. COMPARATIVE ECONOMIC SYSTEMS (3)
Prerequisite: ECON 310. An examination of the essential and distinctive features of economic systems. Several theoretical systems are presented and critiqued. Studies of selected countries focus attention on cultural and institutional factors and their effect on economic systems.

401. MACROECONOMIC THEORY (3)
Prerequisites: ECON 310 and ECON 311. Passing score on the Upper Division Writing Proficiency Exam (WPE). Neoclassical, Keynesian and modern theories of the determination of aggregate output, employment and the general price level. Monetary and fiscal policy.
406. INTERNATIONAL TRADE (3)
Prerequisites: ECON 310 and 311. Passing score on the Upper Division Writing Proficiency Exam (WPE). The class examines world trade in goods and services. Topics covered include theories of comparative advantage, gains from trade, distribution effects of trade, international factor movements and trade restrictions. Also included is a careful analysis of the political economy of tariffs, quotas and industrial policy. OFFERED IN FALL.

407. INTERNATIONAL MACROECONOMICS AND EXCHANGE RATES (3)
Prerequisites: Economics 310 and 311. Passing score on the Upper Division Writing Proficiency Exam (WPE). The class examines world trade in assets. Topics covered include the balance of payments accounts, spot-forward exchange rates, interest-rate arbitrage, purchasing-power parity, exchange rate determination and macroeconomic policy in an open economy. OFFERED IN SPRING.

408. MATHEMATICAL ANALYSIS FOR ECONOMISTS (3)
Prerequisites: ECON 310. Passing score on the Upper Division Writing Proficiency Exam (WPE). Mathematical representation of economic concepts and theory. Calculus and its application in optimization models with and without constraints. Matrix theory, differential equations, difference equations and their applications in both micro and macro economics.

409. INTRODUCTION TO ECONOMETRICS (3)
Prerequisites: MSCI 291 or MSCI 391 or MSCI 591; ECON 310 or ECON 600; and ECON 408 or MSCI 390. Passing score on the Upper Division Writing Proficiency Exam (WPE). Application of statistical techniques to obtain quantitative estimates of relationships suggested by economic analysis. Topics will include estimating criteria, simultaneous equation estimation, testing of hypotheses, and time series analysis. Each class member will participate in a term project involving the construction and estimation of an econometric model.

410. INDUSTRIAL ORGANIZATION (3)
Prerequisite: ECON 310. Passing score on the Upper Division Writing Proficiency Exam (WPE). An examination of the structure, conduct, and performance of American industries in both a theoretical and empirical framework. Selected topics include effects of concentration, barriers to entry, empirical cost curves, economics of scale, oligopoly behavior models, product differentiation, and alternative performance measures.

411. THE ECONOMICS OF ANTITRUST AND REGULATION (3)
Prerequisite: ECON 310. Passing score on the Upper Division Writing Proficiency Exam (WPE). The economic analysis of government policies to alter or maintain market structures and the economic implications of these policies. Selected topics include the problem of antitrust, regulation and public ownership of industry, mergers, price discrimination, capital intensity of regulated firms, and utility price structure.

412. SEMINAR IN ECONOMIC THOUGHT (3)
Prerequisites: ECON 310 and ECON 311. Passing score on the Upper Division Writing Proficiency Exam (WPE). A seminar in the evolution of economic theory with emphasis on mercantilism, physiocracy, classical economics, and socialism.

420. HEALTH ECONOMICS (3)
Prerequisites: ECON 310 and MSCI 291 or MSCI 391. Passing score on the Upper Division Writing Proficiency Exam (WPE). This class uses economic theory to analyze problems created by the complexities of health care markets. These problems include the widespread use of insurance, the important role of asymmetric information, the extent of government involvement, the role of non-profit hospitals as sellers of health care, and the nature of restrictions placed on competition. Additionally, the course provides background on hospital costs, labor shortages, public health concerns, and international comparisons of health insurance systems.

433. PUBLIC ECONOMICS (3)
Prerequisites: ECON 310. Passing score on the Upper Division Writing Proficiency Exam (WPE). The interaction that takes place between the government and private sectors of the economy. The effects of taxation and public expenditure decisions on the allocation of resources. Specific topics include public goods, public choice, externalities, property rights and taxation.

460. ECONOMIC DEVELOPMENT (3)
Prerequisites: ECON 200 or ECON 300. Passing score on the Upper Division Writing Proficiency Exam (WPE). The nature and causes of economic underdevelopment. The population, natural resources, and capital accumulation problems of under-developed areas. Alternative development policies. Selected case studies.

496A-Z. EXPERIMENTAL COURSES-ECONOMICS (3)
Passing score on the Upper Division Writing Proficiency Exam (WPE). Course content to be determined. (See subtitles in appropriate schedule of classes.)

497. SENIOR SEMINAR (3)
Prerequisites: Senior economics major and nomination by economics faculty member. Passing score on the Upper Division Writing Proficiency Exam (WPE). A seminar dealing with advanced topics in economics. Economics faculty will present current research. Students will write papers to be presented and defended in the seminar.

498. FIELD ASSIGNMENTS AND REPORTS (1-3)
Passing score on the Upper Division Writing Proficiency Exam (WPE). Individual study pertaining to present or future career. Student must have active, approved employment. Consultation with employer and instructor determines program. An Academic Internship course. CR/NC Only.

499. INDEPENDENT STUDY (1-3)
Prerequisites: Consent of department chair and consent of an instructor to act as sponsor. Passing score on the Upper Division Writing Proficiency Exam (WPE). In order to do an Independent Study assignment in the school of Business Administration and Economics, a student must have at least a 3.0 overall grade point average, a 2.0 grade point average in all major courses, and a 2.0 grade point average in his option courses. A student who does not meet these grade point requirements will not receive credit for any ECON. 499 that he/she may take.

Admission is based on evidence of ability to pursue independent study in depth and approval of a project submitted at the time of registration. Regular progress meetings and reports are required throughout the semester. Completion of the project is required before credit may be received. Enrollment in Independent Study is not allowed for the purpose of substitution for an existing course. Not more than six units of independent study in the School of Business Administration and Economics may be taken without prior approval of the Dean of the School.
GRADUATE

500. MBA SURVEY OF ECONOMICS (3)
    Prerequisites: Not open to students who have completed Economics 303 and 310. A survey course of the basic principles governing the allocation and utilization of resources. Microeconomic topics include wage and price determination, market mechanisms, efficiency, and related issues concerning industry structure. Macroeconomic topics include financial markets and the determination of national income, employment, and inflation.

600. SEMINAR IN ECONOMIC TOPICS (3)
    Prerequisites: Economics 500 or equivalent. A brief introduction to a wide range of economic topics related to the operation of a modern organization. Topics may include international trade and finance, econometric applications, anti-trust and regulation, and public choice.

606. SEMINAR IN INTERNATIONAL TRADE (3)
    Prerequisites: ECON. 310 or 600. Covers classical and modern theories of international trade, including the theory of comparative advantage as developed by Ricardo, Mill and Marshall, and the “Heckscher-Ohlin” factor endowments explanation of the basis for trade. Topics in the welfare effects of commercial policies such as tariffs, quotas, and subsidies will be covered.

609. SEMINAR IN APPLIED ECONOMETRICS (3)
    Prerequisites: ECON. 600 and MSCI. 591. Theory and applications of econometric analysis, estimation of relationships suggested by economic analysis. Topics include: estimating criteria, testing of economic hypotheses, single equation models, and simultaneous equation models. Class members will participate in a term project involving the construction and estimation of an econometric model.

615. SEMINAR IN INDUSTRIAL ORGANIZATION (3)
    Prerequisite: ECON. 310 or 600. A critical examination of topics in Industrial Organization, such as concentration, mergers, the profit motive, and multi-national firms.

616. SEMINAR IN ANTITRUST AND REGULATION (3)
    Prerequisite: ECON. 310 or 600. Investigation into the impact of existing public policies toward business with primary emphasis upon antitrust legislation and enforcement, regulation, and government ownership.

617. SEMINAR IN INTERNATIONAL FINANCE (3)
    Prerequisites: ECON. 310 or ECON 600 Course covers the theory of exchange rates, the relation between transactions on current and national income, and the causes and effects of international capital movements. The theory of balance of payments adjustments and policy will be examined in detail and some problems in contemporary international monetary arrangements will be discussed. OFFERED IN SPRING.

633. SEMINAR IN PUBLIC ECONOMICS (3)
    Prerequisite: ECON 310 or ECON. 600. Advanced analysis of the effects of governmental taxing and expenditure decisions on the economy in light of both positive and welfare economic theories; fiscal and monetary policies; analysis of “public debt” decision-making in governmental bodies.

699. INDEPENDENT STUDY (3)
    Prerequisite: Permission of graduate adviser. Only those graduate students who have a current 3.0 grade point-average may register in a 600-level independent study course.
GRANTS AND PUBLIC PARTNERSHIPS

- BTSA - Beginning Teacher Support & Assessment Program
  Sue Wasserman, Director ................................(818) 677-4601
- BTSA-SE - Beginning Teacher Support & Assessment for Special Educators Program
  Nancy Burstein, Director and Virginia Kennedy, Coordinator ..........(818) 677-2517
- CAIP - California State University Intern Program in Special Education
  Nancy Burstein and Sue Sears, Co-Directors (818) 677-2517
- CHIME Institute for Children with Special Needs
  Claire Cavallaro and Michele Haney, Co-Directors ..............(818) 677-4979
- CLAD-SE - Cross-cultural language and Academic Development of Special Educators
  Nancy Burstein and Claire Cavallaro, Co-Directors .................(818) 677-2534
- COMETS - Collaboration for Maximizing Early Teacher Support Credential Programs
  Sue Sears and Claire Cavallaro, Co-Directors ......................(818) 677-2534
- CTEI - Comprehensive Teacher Education Institute
  Barbara Hawkins, Director .....................................(818) 677-7894
- Center for Partnerships for Educational Reform
  Antonia Sims, Director .......................................(818) 677-2593
- Squire Starr, Associate Director ................................(818) 677-2590
- Justine Su, Assistant Director .................................(818) 677-3801
- CTI - Comprehensive Teacher Institute
  Sue Wasserman, Director .....................................(818) 677-4601
- Center for Research Development and Service in Educational Psychology and Counseling
  Shari Tarver-Behring, Director ......................(818) 677-2549
- Community Counseling & Resource Institute
  (818) 677-2568
- Early Intervention Model Demonstration Network for Infants with Deaf-Blindness and Their Families
  Deborah Chen, Director .....................................(818) 677-4974
- Ensenada (Mexico) Teacher Institute
  Alphonso Nava, Director .....................................(818) 677-2580
- FFRC - Family Focused Resource Center
  Ann Bisno, Director and Judith Sultan, Coordinator ..............(818) 677-5575
- LAUSD/Granada Hills High School Magnet
  Ellen Schneidman, Faculty Liaison ...........................(818) 677-2596
- Law Related Education for Sign Language Interpreter Educators & Deaf Community Liaisons
  Larry Fleischer, Director .................................(818) 677-4973 V/TDD
- LIECSE - Low Incidence Early Childhood Special Education Joint Doctoral Mentorship Project
  Deborah Chen, Co-Director ................................(818) 677-4974
- Los Angeles Teacher Center ...................................(818) 677-2590
- Mid-South California Arts Project
  Carolyn L. Ellner and Philip Handler, Co-Directors ..............(818) 677-2594
- SALUTE - Successful Adaptations for Learning to Use Touch Effectively Project
  Deborah Chen and June Downing, Co-Directors .................(818) 677-2553
- Special Education Professional Development Center at Vaughn 21st Century Learning Center Charter School
  Yvonne Chan, Principal
- The Valley Trauma Center
  Charles Hanson, Director ...................................(818) 772-0196
  24-hr hotline ..................................................(818) 886-0453
- HELP-LINE: The Beginning Teacher Support Program
  Sue Wasserman, Director .................................(818) 677-4601
- Summer Institute for Korean Studies
  Clara Park, Director ........................................(818) 677-2580
- Times-Mirror Foundation
  Los Angeles Times Literacy Center
  Philip Kligman, Director ...................................(818) 677-3333
- W.M. Keck Foundation Grant/Science & Math Laboratory
  Norman Herr, Director ......................................(818) 677-2580

PRIVATE PARTNERSHIPS

- HELP-LINE: The Beginning Teacher Support Program
  Sue Wasserman, Director .................................(818) 677-4601
- Summer Institute for Korean Studies
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  Los Angeles Times Literacy Center
  Philip Kligman, Director ...................................(818) 677-3333
- W.M. Keck Foundation Grant/Science & Math Laboratory
  Norman Herr, Director ......................................(818) 677-2580

DEGREES OFFERED

Master of Arts in Education Specializations:
- Educational Psychology
- Elementary Education
- Foundations of Education
- Secondary Education
- Master of Arts in Educational Administration
- Master of Science in Counseling
- Master of Arts in Special Education
CERTIFICATES OFFERED

1. EDUCATIONAL PSYCHOLOGY & COUNSELING
   University Certificate Programs
   Career Education and Counseling
   College Counseling and Student Services Specialist
   Parent Child Specialist/Consultant

2. ELEMENTARY EDUCATION
   University Certificate Programs
   Supervision for Teachers
   Computers in Instruction - See Secondary Education

3. SECONDARY EDUCATION
   University Certificate Programs
   Computers in Instruction

4. SPECIAL EDUCATION
   University Certificate Programs
   Supervision for Teachers
   Education Therapy
   Early Intervention for Children with Special Needs
   Credential Certificate Programs
   Resource Specialist
   Serious Emotional Disturbances (SED)

STATEMENT OF PURPOSE

The College of Education is committed to the study of education and the preparation and growth of individuals who pursue careers in teaching and the professional services which enhance human learning and development. Therefore, the College provides diverse programs to develop competence in the following areas:

- Facilitation of learning and teaching
- Educational Administration and Supervision
- Counseling, guidance, advisement and human services
- Educational research and technology
- Educational innovation and change

In the conduct of its programs, the College fosters academic freedom, professional and ethical attitudes, the extension of equal educational opportunity to all individuals, and a passion for education as a lifelong process of study and learning.

COURSE LIST

(Courses in the various departments within the College of Education are listed separately. Immediately following are interdepartmental courses.)

EDUC 301. SCHOOLING IN THE UNITED STATES (3)
Prerequisites: Completion of 3 units of the Social Science Section of General Education; completion of lower division writing requirement. A study of the purposes, functions, organization and crucial problems of schooling in the United States. (Available for General Education, Applied Arts and Sciences.)

EDUC 310. FIELD EXPERIENCES IN SCHOOLS (2)
Prerequisite: None. This course is designed for students who have had little or no experience in an elementary or secondary classroom and who are considering teaching as a career. A minimum of 3 hours of classroom observation/participation per week will be required. At least ten (10) meetings with a University instructor will be scheduled to discuss classroom procedures, school-community environment and responsibilities of the teacher.

EDUC 496A. COOPERATIVE LEARNING GROUPS (3)
Prerequisite: None. Critical review of current research and technique in cooperative learning groups.

EDUC 600. RESEARCH IN EDUCATION (3)
Prerequisite: Completion of preliminary credential program or consent of instructor. An introductory course in the techniques, use, presentation and understanding of research and its contributions to the solution of problems in education. A core course for the Master of Arts in Education.

EDUC 610. CURRENT ISSUES IN EDUCATION (3)
Prerequisite: Graduate standing. EDUC 600 Research in Education or equivalent. A core course for students pursuing an M.A. in Education, the course provides an examination of the current issues and changes in education as they impact upon the complex role of the teacher. Students will explore critical issues facing the educator in today’s society, e.g., human and cultural diversity, technology, institutional relationships and problems, emerging theories and practical applications. Focuses upon the role of the teacher as innovator, decision-maker and scholar.
EDUCATIONAL LEADERSHIP & POLICY STUDIES

Chair: Antonia L. Sims, Interim
Department Office: Education 1220
Phone: (818) 677-2591
Administrative Coordinator: Armine Libaratore

FACULTY: Jeanne Adams, Audrey Clarke, William De La Torre, Jacqueline Hughes (also in EPC), Christa Metzger, Elliot Mininberg, Philip Rusche, Antonia Sims (Interim Chair), Saundra Sparling, Justine Su


ACADEMIC ADVISEMENT: Initial academic advisement is carried out by Department Chair and is available daily throughout the year by appointment through the Department Office.

CREDENTIAL ADVISEMENT: Credential advisement is available in the Credential Preparation Office E103.

REGISTRATION: Conducted during the regular registration period.

CREDENTIALS OFFERED: Preliminary Administrative Services Credential; Professional Administrative Services Credential.

A Social and Philosophical Foundations course is included in the requirement for each of the teaching credentials.

THE MAJOR: The Department of Educational Leadership and Policy Studies offers programs leading to degrees and/or credentials in the field of Educational Administration. Students may pursue programs leading to the MASTER’S DEGREE IN EDUCATIONAL ADMINISTRATION, as well as studies directed at achieving the PRELIMINARY and PROFESSIONAL ADMINISTRATIVE SERVICES CREDENTIALS.

CAREER: Graduates from our programs have been very successful in securing choice leadership roles in schools. Our graduates display values, beliefs and attitudes that inspire others to achieve educational goals. They understand the importance of exercising a positive leadership role in their schools and communities. They are familiar with leadership styles and understand the concept of situational leadership. Our graduates have been taught to manage conflict, build consensus, and communicate effectively, orally and in writing. They have been taught the value of shared leadership and the benefits of developing leadership skills in others. Our graduates are in high demand because our program is respected as one of the highest quality venues for the preparation of school administrators.

MASTER’S DEGREE IN EDUCATIONAL ADMINISTRATION

REQUIREMENTS FOR ADMISSION TO THE PROGRAM

- Two Letters of Recommendation from a practicing school administrator indicating potential for administrative leadership
- Undergraduate Grade Point Average of 3.0 or Graduate Record Examination (GRE)/Miller Analogies Test (MAT), With Acceptable Score
- Passing Score on Upper Division Writing Proficiency Examination

SPECIAL REQUIREMENTS

- Must be classified. Students must apply for departmental classification by filing formal program. This must be accomplished prior to completing 12 units of credit.
- Competency assessment at the conclusion of the program.

REQUIREMENTS FOR THE MASTER’S DEGREE IN EDUCATIONAL ADMINISTRATION

PREREQUISITE (3 UNITS)
EDUC 600 Research in Education* ........................................3

CORE COURSES (15 UNITS)
ELPS 650 Contemporary Administrative Leadership ....3
ELPS 661 Principles and Practices of Curriculum Development ........................................3
ELPS 662 Administration and Supervision of Teaching Personnel and Instruction ........3
ELPS 663 Legal Aspects of Educational Administration ........................................3
ELPS 664 Business and Financial Aspects of Educational Administration .........3

ELECTIVES (15 UNITS)
RECOMMENDED COURSES
ELPS 665 Organization and Administration of Elementary and Secondary Education ....3
ELPS 669 Organization and Administration of Special Education ....................................3
ELPS 672 Management of Human Resources ........................................3
ELPS 675 Decision-Making Simulation ...............................................3
ELPS 676 School Community Relations ..............................................3

REQUIRED EXAMINATION (3 UNITS)
ELPS 697 Comprehensive Examination ........................................3

*This course may be waived if the student can demonstrate research competency through other graduate courses taken or equivalent experience. A waiver must be requested of Department Chair.

TOTAL UNITS REQUIRED FOR THE DEGREE: 30-33

PRELIMINARY ADMINISTRATIVE SERVICES CREDENTIAL (33 UNITS)

REQUIREMENTS FOR ADMISSION TO THE PROGRAM

- Three years of professional educational experience under an appropriate credential - by the completion of program requirements.
- Possession of a Bachelor’s Degree.
- Possession of a valid California credential.
- Undergraduate grade point average (GPA) of 3.0, or Graduate Record Examination (GRE)/Miller Analogies Test (MAT), with acceptable score.
- Passing score on California Basic Educational Skills Test (CBEST).
- Two letters of recommendation from practicing school administrators indicating potential for administrative leadership.
- Master’s students must take the Comprehensive Examination.
- Students in the preliminary Administrative Services Credential Program must take the Competency Examination.

SPECIAL REQUIREMENTS

- An average grade of ‘B’ or better must be maintained throughout the program.
- Competency assessment at the conclusion of the program.
REQUIREMENTS FOR ADMISSION TO THE PROGRAM

PROFESSIONAL ADMINISTRATIVE SERVICES CREDENTIAL

TOTAL UNITS REQUIRED FOR THE CREDENTIAL: 33

REQUIRED COURSES (33 UNITS)

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<tr>
<td>ELPS 661</td>
<td>Principles and Practices of Curriculum Development</td>
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<td>ELPS 662</td>
<td>Administration and Supervision of Teaching Personnel and Instruction</td>
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<td>ELPS 663</td>
<td>School Law in California</td>
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<td>ELPS 664</td>
<td>The Business and Financial Aspects of School Administration</td>
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<tr>
<td>ELPS 665</td>
<td>The Organization and Administration of American Elementary Education</td>
<td>3</td>
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<tr>
<td>ELPS 667</td>
<td>Management of Human Resources</td>
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<td>ELPS 668</td>
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Select 6 units of the following:

- ELPS 688A Fieldwork (Must be Taken With No More Than 6 Units Remaining) 3
- ELPS 688B Fieldwork (Must be Taken With No More Than 6 Units Remaining) 3

All courses are required for state credential.

TOTAL UNITS REQUIRED FOR THE CREDENTIAL: 27

Graduate Courses

COURSE LIST

GRADUATE COURSES

ELPS 601. AMERICAN HIGHER EDUCATION (3)
A seminar in the nature, scope and function of higher education in the United States. Emphasis will be given to contemporary issues and problems.

ELPS 605. ADMINISTRATION OF COLLEGE COUNSELING AND STUDENT SERVICES (3)
Prerequisites: ELPS 601 and EPC 620. This course surveys the essential dimensions in administering College Student Personnel Services, including the elements of organizations, strategic management, and administrative functions, skills and techniques. Topics include managing change, budget management, program planning, staff development, and conflict management. With the consent of the Department Chair, this course may be applied toward both the M.A. Degree or the Certificate in College Student Personnel Services.

ELPS 618A. SEMINAR IN PHILOSOPHY OF EDUCATION (3)
Prerequisite: ELPS 611 or consent of instructor. Content emphasis from one semester to another is likely to vary. Specific emphasis for a particular semester will be indicated by the titles listed in the Schedule of Classes for that semester.

ELPS 631. HISTORY OF AMERICAN EDUCATION (3)
A historical analysis of educational developments and problems in the U.S.A. and their relationships to major cultural developments and trends.

ELPS 641. COMPARATIVE EDUCATION (3)
The educational systems of selected developed and developing countries studied in cross-cultural perspective. Emphasis on problems in educational borrowing and educational change.

ELPS 650. CONTEMPORARY ADMINISTRATIVE LEADERSHIP (3)
This course is designed to assist in the development of administrative leadership skills. Focus is on the knowledge and application of leadership skills necessary in effective organizations, with special emphasis on schools. Topics of study include situational leadership, organizational climate and culture, individual and group motivation, and transforming leadership as applied through school based management, shared decision-making, strategic planning, team building, and total quality management. This course will also include discussion of current educational reform efforts and trends.

ELPS 652. SOCIAL PROBLEMS AND EDUCATION (3)
A study of selected social problems and alternative proposals for coping with these problems, the significance of these problems and proposals for public education.

ELPS 656. MINORITY GROUPS AND EDUCATION (3)
Designed to deal with the history, culture and current problems of racial and ethnic minority groups and their communities. Special emphasis will be placed on educational problems of racial and ethnic minorities and
methods of resolving such problems. Among the groups studied are Chicanos and other Latinos, Black, Asian and Native Americans.

ELPS 660. THE EXCEPTIONAL PUPIL IN SCHOOL AND SOCIETY (3)
Prerequisites: SPED 400 or permission of instructor. The focus of this course is upon an understanding of the social forces which affect the development of educational programs for exceptional pupils. Recommended especially for education students interested in the Resource Specialist Certificate, or M.A. Degree in Special Education.

ELPS 661. PRINCIPLES AND PRACTICES OF CURRICULUM DEVELOPMENT (3)
Foundations and philosophies of curricula. Curriculum formulation and organization with attention to scope and sequence of materials. Roles of various school personnel in the process of curriculum development, evaluation and revision are examined. The scope of the course includes both elementary and secondary school levels.

ELPS 662. ADMINISTRATION AND SUPERVISION OF TEACHING PERSONNEL AND INSTRUCTION (3)
Philosophies and techniques of supervision of instructional personnel. Selection, assignment, evaluation and in-service improvement of teachers. The role of the supervisor in improving instruction. Analysis of problems of teachers and counseling activities of supervisory personnel.

ELPS 663. LEGAL ASPECTS OF EDUCATIONAL ADMINISTRATION (3)
General principles of American school law with particular emphasis upon California statutes. Consideration of the legal bases of federal, state and local administrative levels. Review of the salient legal provisions of the Education Code respecting administration of schools, the rights of patrons and employees, torts, contracts, certification, tenure, school plant planning and the rights and obligations of pupils. Analysis and significance of major court decisions having implications for public education.

ELPS 664. THE BUSINESS AND FINANCIAL ASPECTS OF EDUCATIONAL ADMINISTRATION (3)
Problems and principles of educational finance with emphasis upon the California situation. The formulation and financing of the school budget. Legal provisions concerning school finance and business management. The basis and computation of state and local school support. Standard school business practices. The general aspects of the planning, financing, and construction of school buildings. Business management problems of individual schools.

ELPS 665. THE ORGANIZATION AND ADMINISTRATION OF AMERICAN ELEMENTARY AND SECONDARY EDUCATION (3)
Elementary and Secondary Education and the elementary and secondary school in the organizational structure of the American educational system. Relationships and organization of the federal, state, intermediate, and local levels. Particular emphasis will be given to the internal organization, structure, cultural context and administration of the school. Emphasizing and encouraging personal responsibility for developing, articulating and refining the values, beliefs and assumptions that guide professional practice.

ELPS 667. THE ORGANIZATION AND ADMINISTRATION OF COMMUNITY COLLEGE EDUCATION (3)
A seminar designed for the study of the administration of the community college with emphasis on the community college in California. Administrative theory, research and application of administrative policies and procedures in the areas of faculty and student personnel, curriculum and instruction, plant and land management, and relationships with lay and governmental boards will be analyzed and evaluated.

ELPS 669. THE ORGANIZATION AND ADMINISTRATION OF SPECIAL EDUCATION (3)
Problems of organization, administration and supervision of various types of special education programs. Evaluation of recent, proposed and needed legislation. Review of current literature.

ELPS 670. SEMINAR IN CONTEMPORARY PUBLIC POLICY ISSUES IN EDUCATIONAL ADMINISTRATION (3)
Prerequisite: Valid Administrative Credential. This course is designed to evaluate contemporary issues in administration at both the elementary and secondary levels. The emphasis of the course is on the philosophical foundations that serve as a springboard for opportunity for students to reevaluate their conceptualizations and beliefs regarding those contemporary issues identified for discussion.

ELPS 672. MANAGEMENT OF HUMAN RESOURCES (3)
This is a seminar in the philosophy, scope, function and evaluation of public school personnel administration. Emphasis on the development of a practical program.

ELPS 673. LEADERSHIP FOR INFORMATION MANAGEMENT AND CHANGE (3)
Prerequisites: Valid Administrative Credential. Planning and managing information and change within schools and school districts. Course content includes forces of change, models and strategies for intentional change diffusion, planning and managing change, and self-renewal in educational organizations.

ELPS 675. DECISION-MAKING SIMULATION (3)
This course is designed to provide experienced school administrators and graduate students in administration and supervision the opportunity to simulate the position of a school administrator and assume the leadership of a typical public school. Consent of instructor needed. The content is developed around the use of simulated materials and focuses on the individual student and his/her approach to realistic problems and situations faced by a school administrator. These responses are the basis for the student’s self-examination of his/her administrative behavior and enables him/her to capitalize upon strengths and ameliorate weaknesses.

ELPS 676. SCHOOL COMMUNITY RELATIONS (3)
The seminar will be devoted to a study of the various methods and media of interpreting the school and the community. Particular attention will be given to utilizing all media to strengthen understanding of the program and problems of education.

ELPS 679. ORGANIZATION AND ADMINISTRATION OF MULTILINGUAL AND CULTURAL PROGRAMS (3)
Prerequisites: Valid Administrative Credential. Study of the basic principles involved in developing leadership roles in multilingual programs, curricula development, staff development, as well as background in assessment,
resources and materials. Supervision and administration of the total multilingual education is inherent to the course.

ELPS 681A. SEMINAR IN POLITICS, ECONOMICS AND EDUCATION (3)
Content emphasis from one semester to another is likely to vary. Specific emphases for any particular semester will be indicated by the titles listed in the Schedule of Classes for that semester.

ELPS 683. LEADERSHIP, ETHICS, MORALS, VALUES (3)
Prerequisite: Valid Administrative Credential. The principal purpose of this course is to provide educational administrators an ethical and moral foundation that will both ground and inform their practices in schools. Through examining moral texts and exploring case studies involving ethical dilemmas and questions, students will both develop an understanding of the importance of shared ethical norms in public schooling and clarify their personal beliefs regarding a variety of ethical issues in leadership.

ELPS 685. INDUCTION PLAN (3)
This experience is a plan for the candidate’s induction. The plan is individually designed by each student in consultation with a local school/district mentor and a faculty member from Educational Leadership and Policy Department. The plan is intended to provide, among other things, a description of the district support services available to the student, a plan for the completion of required academic coursework, identification of the local school/district mentor, and related professional growth activities.

ELPS 686. ASSESSMENT OF CANDIDATE COMPETENCY (2)
This Assessment of Candidate Competency is accomplished through a formal departmental evaluation process. This evaluation process will include four separate phases: (1) faculty assessment of the candidate’s performance in all of the activities identified in the Induction Plan; (2) Consultation will take place with school/district mentoring partners; (3) A faculty review of the candidate’s portfolio compiled throughout their program of study; (4) An exit interview will take place at the conclusion of the candidate’s course of study.

ELPS 687A-E. SELECTED TOPICS (1-5)
Individually designed experiences by student in collaboration with faculty member and designated mentor. These elective credits may be satisfied by non-university based activities and/or electives from this or other departments.

ELPS 688A-B. FIELDWORK IN EDUCATIONAL ADMINISTRATION (3-3)
Prerequisites: Teaching experience, completion of 24 units of coursework in the program, approval of the administrator of the school where the fieldwork is to be performed and acceptance into the course by the Department of Educational Leadership and Policy Studies. The experience in this program will be at the building site level and will, as much as possible, reflect those functions, assignments and responsibilities characteristic of the principal’s office. The fieldwork experience shall be performed on at least two school levels (elementary, junior high school, high school) with a substantial part at a school site where at least twenty percent of the pupils are of an ethnic/racial group other than that of the student.

Admission is by preliminary application only. These may be obtained in the Department Office. Applications must be received by May 1 for consideration for the Fall Semester, and by December 1 for consideration for the Spring Semester.

ELPS 689. PRACTICUM ADMINISTRATION (3)
Prerequisites: Valid Administrative Credential; administrative position; and approval of the Department of Educational Leadership and Policy Studies
An individualized program jointly developed for each student by the Department of Educational Leadership and Policy Studies in consultation with the student and the student’s employing school district. The plan provides opportunities for the student to demonstrate his/her knowledge and skills in the eight competency domains in Educational Administration.

Admission is by preliminary application only. These may be obtained in the Department Office. Applications must be received by April 1 for consideration for Fall Semester and by November 1 for consideration for Spring Semester.

ELPS 699XYZ. INDEPENDENT STUDY (1-3)
EDUCATIONAL PSYCHOLOGY AND COUNSELING

Chair: Rie Rogers Mitchell

COLLEGE OF EDUCATION
Department Office: Education 1218
Phone: (818) 677-2599, (818) 677-2601.
Administrative Coordinator: Maria Boutin

FACULTY: Michael Auer, Augusto Britton Del Rio, Beverly Cabello, Stanley Charnofsky, Marvin Chernoff, Don Dorsey, George Ferrell, Janet E. Fish, Adele E. Gottfried, Charles Hanson, Greg Jackson, Doris Jones-Nicol, Rie Rogers Mitchell (Chair), Bernard Nisenholz, Luis Rubalcava, Tovah Sands, Merrill Simon, Shari Tarver-Behring

EMERITUS FACULTY: Elizabeth Brady, Rose Bromwich, Jack Byrom, Arthur Charlap-Hyman, Elizabeth Crane, Robert Docter, W. Dean Mc Cafferty, Maria Maginnis, Sarah Moskovitz, Richard Thiel, Allen Webb

THE MAJOR: The Department of Educational Psychology and Counseling offers degree programs leading to the Master of Science in Counseling in the following specializations: Career Counseling; College Counseling and Student Services; Marriage, Family and Child Counseling; School Counseling, and; School Psychology. The department also offers degree programs leading to the Master of Arts in Education-Educational Psychology with emphasis in either Early Childhood Education or Development, Learning, and Instruction. A Master of Science in Genetic Counseling (see Genetic Counseling) is offered in conjunction with the Department of Biology and the Department of Special Genetic Counseling) is offered in conjunction with the Department of Biology and the Department of Special Education.

CAREERS: Persons completing the degree may qualify for private practice or positions in public schools; social agencies; community colleges and universities; business and industry; career development; marriage, family, child counseling and related areas. Students can receive a license as a marriage and family therapist or the pupil personnel services credentials in school counseling or school psychology to work in public schools.

GRADUATE COORDINATOR: Luis Rubalcava

PROGRAM ADVISORS:
Career Counseling - Greg Jackson
College Counseling and Student Services - Rie Rogers Mitchell, Merrill Simon
Development, Learning, and Instruction - Beverly Cabello
Early Childhood Education - Janet E. Fish
Marriage, Family, Child Counseling - Stanley Charnofsky
School Counseling - Charles Hanson, Shari Tarver-Behring
School Psychology - Doris Jones-Nicol

UNIVERSITY CERTIFICATE PROGRAMS: In addition to M.A. and M.S. degree programs, the Department of Educational Psychology and Counseling offers post Master’s certificate programs in Career Counseling, College Counseling and Student Services, and Parent-Child Consultation. For additional information on Educational Psychology Certificate Programs, consult the program coordinators.

CAREER EDUCATION AND COUNSELING - Greg Jackson
College Counseling and Student Services - Rie Rogers Mitchell, Merrill Simon
Parent-Child Consultation - Janet E. Fish

CREDENTIAL INFORMATION: See Credential Programs section of the catalog. For Credential information, consult Credentials Office.

The Department has programs leading to two credentials in pupil personnel services in the State of California:
School Counseling-Charles Hanson, Shari Tarver-Behring
School Psychology-Doris Jones-Nicol

STATE LICENSURE: Students seeking the state licensure in Marriage and Family Therapy must complete the 60 unit M.S. in Counseling (specialization in Marriage, Family and Child Counseling) and 3,000 hours of fieldwork and internship prior to applying for the State examination. Students seeking licensure as educational psychologists must complete all of the requirements for the School Psychology credential, and subsequently gain additional fieldwork requirements. See School Psychology program advisor.

ACADEMIC ADVISEMENT: Academic advisement is carried out by all members of the department and is available daily throughout the semester by appointment with the advisor. Two Orientation/Advisement meetings are scheduled each semester. Student Information packets are available in the Department Office.

ACCREDITATION: The Council for Accreditation of Counseling and Related Education Programs (CACREP), a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Education (CORPA), has conferred accreditation upon the following program areas in the Department of Educational Psychology and Counseling: Career Counseling (M.S.); College Counseling and Student Services (M.S.); Marriage, Family and Child Counseling (M.S.); and School Counseling (M.S.)

REQUIREMENTS FOR THE M.A./M.S. DEGREE

ADMISSION REQUIREMENTS FOR CLASSIFIED STANDING IN ALL DEGREES:

1. Completion of application and meeting admissions requirements of the University. (Application available at the Admissions Office.)
   A. Acceptable score on the Graduate Record Exam (GRE) or the Miller Analogies Test (MAT) if undergraduate GPA is below 3.0.
   B. Successfully pass the Upper Division Writing Proficiency Exam.
   C. A Bachelor’s degree from an accredited college or university.

2. Completion of application for admission to the Department graduate programs. See program advisors for specific details.
   A. Two letters of recommendation.
   B. An admission interview.
   C. Approval by the Department Student Affairs Committee.

3. Satisfactory completion of prerequisite courses pertinent to the specialization selected, with a grade of B- or better.

CURRICULUM FOR THE MASTER OF SCIENCE DEGREE IN COUNSELING

Prerequisites: See each Specialization

BASIC PROGRAM (24 UNITS)

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EPC 601</td>
<td>Individual and Group Assessment</td>
<td>3</td>
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<tr>
<td>EPC 602</td>
<td>Research Principles</td>
<td>3</td>
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<tr>
<td>EPC 643</td>
<td>Counseling in Cross-Cultural Settings</td>
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<tr>
<td>EPC 655</td>
<td>Seminar in Counseling Theory &amp; Practice</td>
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<td>EPC 657A</td>
<td>Seminar in Career Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>EPC 659A</td>
<td>Counseling Practicum: Communication</td>
<td>3</td>
</tr>
<tr>
<td>EPC 659B</td>
<td>Counseling Practicum: Skills</td>
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## SPECIALIZATIONS:

### SELECTED SPECIALIZATION (36 UNITS)

The student will select a specialization in Career Counseling; College Counseling and Student Services; Marriage, Family, Child Counseling; School Counseling, or School Psychology.

### SPECIALIZATIONS:

1. **CAREER COUNSELING**

   This degree specialization program offers graduate-level training in career counseling theory; resources and program development; organizational behavior and administration; individual and group vocational assessment; and the career development of special populations. These areas have been identified by the National Career Development Association as essential competency areas for National Career Counselor Certification (NCCC). Graduates of the program will be prepared for employment as career counselors in educational settings; business, industry and government; community-based agencies and organizations; and career counseling/consulting firms.

### PREREQUISITES (12 UNITS)

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<td>Educational Statistics for Research &amp; Measurement</td>
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<tr>
<td>EPC 430</td>
<td>Development &amp; Learning in Early Childhood Education</td>
<td>3</td>
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<tr>
<td>or EPC 612</td>
<td>Advanced Study in Child &amp; Adolescent Development</td>
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### BASIC PROGRAM (24 UNITS)

#### SPECIALIZATION (36 UNITS)

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<td>or EPC 609</td>
<td>Human Development: Life Span Perspective</td>
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<td>or EPC 607</td>
<td>Motivation in Learning &amp; Development</td>
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<td>or EPC 653</td>
<td>Measurement for School &amp; Career Counseling</td>
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<td>or EPC 657B</td>
<td>Seminar in Career Counseling Resources</td>
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<td>or EPC 658</td>
<td>Group Counseling</td>
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<td>Group Counseling Lab</td>
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<td>or EPC 659C &amp; D</td>
<td>Fieldwork in Career Counseling</td>
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<td>or EPC 660</td>
<td>Counseling for Career Adjustment &amp; Change</td>
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<td>or EPC 662</td>
<td>Current Issues in Career Education &amp; Counseling</td>
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<td>or SPED 612</td>
<td>Career Education for the Handicapped</td>
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<tr>
<td>or MGT 670</td>
<td>Organizational Behavior &amp; Administration</td>
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<td>Organizational Analysis</td>
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<td>or EPC 697</td>
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<td>or EPC 698</td>
<td>Thesis/Graduate Project</td>
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### ELECTIVES (5 UNITS)

(approved by Program Coordinator)

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<td>SEMESTER 2:</td>
<td>EPC 643, 657B, 659B</td>
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<td>SEMESTER 3:</td>
<td>EPC 658, 658L, 659C, 653, 607</td>
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<td>or MGT 670</td>
<td>or SOC 400</td>
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</table>

### SEMESTER 4: EPC 601, 659D, 671, 662 or SPED 612

### SEMESTER 5: EPC 607, 660, 606 OR 609, 697 or 698C, ELECTIVE (2 units)

### SEMESTER 6: 2 UNITS ELECTIVE

### TOTAL UNITS REQUIRED FOR DEGREE: 60.

#### 2. COLLEGE COUNSELING & STUDENT SERVICES (CCSS)

The M.S. degree in counseling with a specialization in CCSS is designed to prepare students for career opportunities in higher education with particular emphasis on positions serving university and community college students on urban campuses. Special attention is given to working with diverse student populations, including returning, minority, and disabled students. This program is designed for two types of students: (1) for those individuals who desire training for entry level positions in student affairs, and (2) for those who are already experienced professionals in student affairs and wish to increase their theoretical background and range of experience. The program meets the accreditation standards of the Council for Accreditation of Counseling (CACREP).

### PREREQUISITES (9 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>EPC 600</td>
<td>Educational Statistics for Research &amp; Measurement</td>
<td>3</td>
</tr>
<tr>
<td>EPC 451</td>
<td>Fundamentals of Counseling &amp; Guidance</td>
<td>3</td>
</tr>
<tr>
<td>or EPC 430</td>
<td>Development &amp; Learning in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>or EPC 612</td>
<td>Advanced Study in Child &amp; Adolescent Development</td>
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### BASIC PROGRAM (21 UNITS)

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<tr>
<td>EPC 601</td>
<td>Individual and Group Assessment</td>
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</tr>
<tr>
<td>EPC 602</td>
<td>Research Principles</td>
<td>3</td>
</tr>
<tr>
<td>EPC 643</td>
<td>Counseling in Cross-Culture Settings</td>
<td>3</td>
</tr>
<tr>
<td>EPC 655</td>
<td>Seminar in Counseling Theory &amp; Practice</td>
<td>3</td>
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<tr>
<td>EPC 657A</td>
<td>Seminar in Career Counseling Theory</td>
<td>3</td>
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<tr>
<td>EPC 659A</td>
<td>Counseling Practicum: Communication</td>
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<tr>
<td>or EPC 659B</td>
<td>Counseling Practicum: Skills</td>
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### SPECIALIZATION (39 UNITS)

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<tr>
<td>ELPS 601</td>
<td>American Higher Education</td>
<td>3</td>
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<tr>
<td>ELPS 605</td>
<td>Administration of Programs in Student Services and College Counseling</td>
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<tr>
<td>EPC 606</td>
<td>Seminar in Adult Development</td>
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<tr>
<td>or EPC 609</td>
<td>Human Development: A Life-Span Perspective</td>
<td>3</td>
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<tr>
<td>or EPC 608</td>
<td>Social Psychological Education</td>
<td>3</td>
</tr>
<tr>
<td>or Approved Course in Department of Management</td>
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</tr>
<tr>
<td>EPC 620</td>
<td>College Counseling and Student Services Profession</td>
<td>3</td>
</tr>
<tr>
<td>EPC 622</td>
<td>American College Student and Campus Environment</td>
<td>3</td>
</tr>
<tr>
<td>or EPC 658</td>
<td>Seminar in Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>or EPC 658L</td>
<td>Group Counseling Laboratory</td>
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<tr>
<td>or Electives</td>
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<td>5-8</td>
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<tr>
<td>or EPC 659JK</td>
<td>Fieldwork in College Counseling and Student Services</td>
<td>6</td>
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<tr>
<td>or EPC 697</td>
<td>Directed Comprehensive Studies</td>
<td>3</td>
</tr>
<tr>
<td>or EPC 698</td>
<td>Thesis/Graduate Project</td>
<td>3-6</td>
</tr>
</tbody>
</table>

### SUGGESTED SEQUENCE OF COURSES BY SEMESTER:

| SEMESTER 1: | EPC 602, 622, 655, 659A            |       |
| SEMESTER 2: | EPC 601, 620, 643, 659B            |       |

| SEMESTER 3: | EPC 602, 655, 657A, 659A            |       |
| SEMESTER 4: | EPC 601, 659D, 671, 662 or SPED 612 |       |
| SEMESTER 5: | EPC 607, 660, 606 OR 609, 697 or 698C, ELECTIVE (2 units) |       |
| SEMESTER 6: | 2 UNITS ELECTIVE                    |       |
SUGGESTED COURSE SEQUENCE BY SEMESTER:

**SEMESTER 3:**
- EPC 606 (or 609), 658, 658L, 659J, ELPS 601

**SEMESTER 4:**
- EPC 657A, 659K, 608 (or MGT Course), ELPS 605

**SEMESTER 5:**
- Electives (5-8 units), EPC 697 (or 698)

**SEMESTER 6:**
- IF NEEDED TO COMPLETE THESIS/PROJECT

TOTAL UNITS REQUIRED FOR DEGREE: 60

3. MARRIAGE, FAMILY AND CHILD COUNSELING

This specialization within the M.S. degree in Counseling is an approved program and provides students with competency in the content areas required by the State Board of Behavioral Science. Upon completion of coursework and being awarded the degree, students are eligible to apply to the State Board for internship registration when endorsed by an officer of the University. Following completion of 3,000 hours of supervised field experience and successful passage of a written and oral examination administered by the State Board, candidates are awarded the Marriage, Family, Child Counseling license by the State.

**PREREQUISITES (12 UNITS)**

- EPC 451 Fundamentals of Counseling & Guidance
- EPC 430 Development & Learning in Early Childhood Education
- EPC 600 Educational Statistics for Research & Measurement

**BASIC PROGRAM (24 UNITS)**

**SPECIALIZATION (36 UNITS)**

- FES 441 Human Sexuality
- SOC 456 Proseminar on Sexual Dysfunction
- EPC 609 Human Development-Life Span Perspective
- PSY 610 Advanced Behavior Disorders
- EPC 695B Advanced Behavior Disorders for Counselors

**TOTAL UNITS REQUIRED FOR DEGREE: 60**

4. SCHOOL COUNSELING

The M.S. Degree in Counseling with specialization in School Counseling is designed to prepare students for a career as a school counselor in grades K-12. The California Pupil Personnel Services Credential in School Counseling is a viable program within this category. Although completion of the M.S. degree in Counseling is not a requirement for the PPS Credential, the master’s degree in this area allows students to complete coursework in assessment and research and areas of selected professional interest.

**PREREQUISITES (9 UNITS)**

- EPC 600 Educational Statistics for Research & Measurement
- EPC 451 Fundamentals of Counseling & Guidance
- EPC 430 Development & Learning in Early Childhood Education

**BASIC PROGRAM (24 UNITS)**

**SPECIALIZATION (36 UNITS)**

- EPC 671 Law & Ethics for Counselors
- EPC 601 Individual & Group Assessment
- EPC 602 Research Principles
- EPC 643 Counseling in Cross-Cultural Settings
- EPC 657B Seminar in Career Counseling-Resources
- EPC 655 Seminar in Counseling Theory & Practice
- EPC 659A Counseling Practicum: Communication
- EPC 659B Counseling Practicum: Skills
- EPC 612 Advanced Study in Child & Adolescent Development
- EPC 607 Motivation in Learning & Development: Theories & Application in Educational Psychology

**TOTAL UNITS REQUIRED FOR DEGREE: 60**

**ELECTIVES (2 UNITS)**

(Approved by Program Coordinator)

Suggested Course Sequence by Semester:

**SEMESTER 1:**
- EPC 659A, 655, 602, 609

**SEMESTER 2:**
- EPC 659B, 643, 601, 671

**SEMESTER 3:**
- EPC 659C, 658/658L, 670, 695B or PSYCH 610

**SEMESTER 4:**
- EPC 659D, 656, 657A, FES 441 or SOC 456

**SEMESTER 5:**
- EPC 675, 677, 697 OR 698C, Elective (2 units)

**SEMESTER 6:**
- IF NEEDED FOR CONCLUSION OF CULMINATING EXPERIENCE

**ELECTIVES (1-2 UNITS)**

(Approved by Program Coordinator)

Suggested Course Sequence by Semester:

**SEMESTER 1:**
- EPC 602, 655, 659A, 605 or 607 or 612

**SEMESTER 2:**
- EPC 601, 643, 659B, 671

**SEMESTER 3:**
- EPC 646, 651, 658/658L, 659C
SUGGESTED COURSE SEQUENCE BY SEMESTER:

SEMESTER 1: EPC 602, 655, 659A, SPED 610
SEMESTER 2: EPC 601, 643, 659B, 671
SEMESTER 3: EPC 658/658L, 659E, 663A
SEMESTER 4: EPC 611, 659F, 663B, 659A
SEMESTER 5: EPC 656, SPED 400 or SPED 508, 697 or 698C, 607 or 612
SEMESTER 6: IF NEEDED FOR CONCLUSION OF CULMINATING EXPERIENCE

TOTAL UNITS REQUIRED FOR DEGREE: 60

EDUCATIONAL PSYCHOLOGY AND COUNSELING 2000-2002

EDUCATION OPTION

(Program Coordinator, Dr. Janet E. Fish, 677-7891)

The specific objectives of the M.A. in Education Degree Program with specialization in Educational Psychology-Early Childhood Education are stated as follows:

a. To prepare students to assume leadership positions in early childhood education in a variety of public or private institutions concerned with education and/or child care.

b. To prepare students through advanced study to enter a doctoral program with a view to understanding theory and research in child development or program planning or administration in early childhood education.

c. To provide opportunities for students to gain up-to-date knowledge in child development, adult-child interaction and cultural and other environmental influences on families and their children, and learn to apply this knowledge to such areas as child advocacy, new designs in infant and child care, public education for four year olds and provision of support systems for high-risk families and their young children.

PREREQUISITES (6 UNITS)

Admission to the University and to the Program. Satisfactory completion of prerequisites EPC 600 (Educational Statistics for Research & Measurement), EPC 430 (Development & Learning in Early Childhood Education), OR an equivalent 3 unit course.

BASIC PROGRAM (22 UNITS)

SPECIALIZATION (36 UNITS)

SPED 610 Program Planning for Exceptional Children & Youth ........................................3
EPC 611 Seminar in Educational Psychology .................3
EPC 658 Seminar in Group Counseling .........................3

and

EPC 658L Group Counseling Laboratory .............1
EPC 659E & F Fieldwork in School Psychology .............1-6
EPC 659G & H Internship in School Psychology .......1-6
(EPC 659GC & EPC 659HC can be taken for a total of 6 units)

EPC 663A & B Clinical & Psychometrics Assessment Techniques ...................................................3-3
EPC 664 Case Study of the Atypical Child ..................3
EPC 671 Laws & Ethics ............................................3
EPC 680 Seminar in School Psychology .......................3
EPC 697 Directed Comprehensive Studies ..................3-6

or

EPC 698 Thesis/Graduate Project ..........................3-6

SUGGESTED COURSE SEQUENCE BY SEMESTER:

SEMESTER 1: EPC 602, 655, 659A, SPED 610
SEMESTER 2: EPC 601, 643, 659B, 671
SEMESTER 3: EPC 658/658L, 659E, 663A
SEMESTER 4: EPC 611, 659F, 663B, 659A
SEMESTER 5: EPC 656, SPED 400 or SPED 508, 697 or 698C, 607 or 612
SEMESTER 6: IF NEEDED FOR CONCLUSION OF CULMINATING EXPERIENCE

TOTAL UNITS REQUIRED FOR DEGREE: 60

THE MASTER OF ARTS IN EDUCATION WITH SPECIALIZATION IN EDUCATIONAL PSYCHOLOGY

The Department of Educational Psychology and Counseling M.A. specialization in Educational Psychology has two options. They are (1) Early Childhood Education, and (2) Development, Learning and Instruction.

1. EDUCATIONAL PSYCHOLOGY: EARLY CHILDHOOD DEVELOPMENT

PREREQUISITES (9 UNITS)

EPC 600 Educational Statistics for Research and Measurement ........................................3
EPC 451 Fundamentals of Counseling & Guidance .........3
EPC 430 Development & Learning in Early Childhood Education .............................................3

or

EPC 612 Advanced Study in Child & Adolescent Development ..................................................3

or

Equivalent 3 unit course.

BASIC PROGRAM (24 UNITS)

EDUC 610 Current Issues in Education ..........................4
EDUC 600 Research in Education ..................................3
EDUC 610 Current Issues in Education ..........................4
EPC 632 Issues, Theories, and Current Practices in Early Childhood Education .........................3
EPC 659A-F Fieldwork in Early Childhood Education ..................................................1-6
EPC 659G & H Internship in School Psychology .......1-6

or

EPC 698 Thesis/Graduate Project ..........................3-6

ELECTIVES (8 UNITS)

(approved by Program Coordinator)

SUGGESTED COURSE SEQUENCE BY SEMESTER:

SEMESTER 1: EPC 639A, 632, ELECTIVE (3 units)
2000-2002

EDUCATIONAL PSYCHOLOGY AND COUNSELING

TOTAL UNITS FOR THE DEGREE: 30

2. EDUCATIONAL PSYCHOLOGY: DEVELOPMENT, LEARNING AND INSTRUCTION OPTION

(Program Coordinator, Dr. Beverly Cabello, 677-4699)

The specific objectives of the M.A. in Education Degree Program with specialization in Educational Psychology/Development, Learning and Instruction are stated as follows:

a. To prepare students according to current academic demands for entry into doctoral programs in educational psychology and education.

Students who complete an educational psychology degree from CSUN have opportunities to enter doctoral programs in educational psychology and most other fields in education. Advanced study of theory and research on motivation, learning, development, affective processes, individual and group differences, interpersonal relationships, instruction, and evaluation with special emphasis on education and educational processes is most appropriate for entry into doctoral programs in educational psychology and other fields of education.

b. To offer students preparing for basic teaching credentials and teachers who wish to study and improve their teaching and supervision the opportunity to study extensively and in depth as well as learn how to do research about students, family, teacher, school, community, and teaching-instruction variables.

Students who complete the educational psychology degree from CSUN study and learn how to do research, whether an individual case study for themselves about their own teaching or research concerning the educational processes and outcomes of others. They learn the intricate relationships of effective teaching variables and how these are best applied. They learn about themselves and others in terms of how individuals and groups develop and change and how this specifically relates to concerns about self and others.

PREREQUISITES (3 UNITS)

Admission to the University and to the Program. Satisfactory completion of prerequisite EPC 314.

BASIC PROGRAM (19 UNITS)

EDUC 600 Research in Education ..................3
EDUC 610 Current issues in Education ...............4
EPC 600 Educational Statistics for Research and Measurement ..........................3
EPC 605 Advanced Psychological Foundation of Education .............................3
EPC 612 Advanced Study in Child and Adolescent Development ......................3
EPC 606 Seminar in Adult Development .............3
EPC 607 Motivation in Learning and Development: Theories and Application in Educational Psychology .........................................3
EPC 697 Directed Comprehensive Study ..............3-6
EPC 698 Thesis/Graduate Project ..........................3-6

ELECTIVES (11 UNITS)

(APPROVED BY PROGRAM COORDINATOR)

SUGGESTED COURSE SEQUENCE BY SEMESTER:

SEMESTER 1: EDUC 600, EDUC 610, EPC 600, 605, EPC 612 OR 606 OR 607
SEMESTER 2: ELECTIVES, EPC 697 OR 698C
SEMESTER 3: IF NEEDED FOR CONCLUSION OF CULMINATING EXPERIENCE

TOTAL UNITS FOR THE DEGREE: 30

CERTIFICATE PROGRAMS

CERTIFICATE IN CAREER EDUCATION AND COUNSELING

The purpose of this certificate is to provide students who have previously completed a master’s degree or Pupil Personnel Services Credential or who are concurrently enrolled in a masters degree or credential program in the Department of Educational Psychology and Counseling with knowledge and professional skills in career counseling theory, applications, and program development; organizational theory; career and educational information; individual and group vocational assessment; and career counseling for special populations. These areas have been identified by the National Career Development Association as essential competency areas for National Career Counselor Certification (NCCC).

Students completing the program will earn a Certificate in Career Education and Counseling, and will be prepared for employment as career counselors in educational settings, including schools; business, industry and government; community-based agencies and organizations; and career counseling/consulting firms.

PREREQUISITES (3 UNITS)

M.A./M.S. in Educational Psychology and Counseling, a field approved by the Program Coordinator; or a Basic Pupil Personnel Services Credential, or Concurrent enrollment in a masters degree program in Educational Psychology and Counseling or PPS Credential.

One course in the Sociology of Work (Soc 340), or Organizational Behavior (Mgmt 360), or the equivalent.

COURSE SEQUENCING

The following sequence of courses is suggested:

SEMESTER I

EPC 657A Seminar Career Counseling Theory...........3
MGT 670 Organizational Behavior & Administration ...3
SOC 400 Social Organization .........................3
EPC 607 Motivation in Learning & Development: Theories and Applications in Educational Psychology ..........................3
SEMESTER II

EPC 653 Measurement for School & Career Counseling ........................................3
EPC 655 Seminar in Counseling Theory & Practice ....3
EPC 657B Seminar in Career Counseling Resources ....3
SEMESTER III

EPC 658 Seminar in Group Counseling ....................3
EPC 658L Group Counseling Laboratory ..................3
EPC 660 Counseling for Career Adjustment and Change .....................................3
**SEMESTER IV**

EPC 662 Current Issues in Career Education and Counseling.................................3  

or  

SPED 612 Special Education for the Handicapped.................3  

TOTAL UNITS FOR THE CERTIFICATE: 27

**PROFESSIONAL DEVELOPMENT REQUIREMENT:**

In addition to certificate course requirements, students will be expected to complete a minimum of 40 hours of professional development training outside of a classroom setting. Approved training might include conference attendance, seminars, and workshops. Students may not receive certificate validation for professional development training in excess of ten hours per semester.

**ADVANCED CERTIFICATE PROGRAMS IN COUNSELING IN BUSINESS AND INDUSTRY**

The certificate programs in Counseling in Business and Industry consist of courses in Educational Psychology, as well as courses in the Departments of Management, Psychology, Speech Communication and Health Sciences. The certificate has a heavy emphasis on supervised fieldwork experience which is gained in an internship in a business or industrial setting. Graduates of this program will affiliate with the following organizations: ASTD (American Society for Training and Development), AACC (American Association of Counseling and Development), and ASPA (American Society of Personnel Administration), ALMACA (Association of Labor Management Administrators Consultants on Alcoholism), PIRA (Personnel and Industrial Relations Association), and EAPA (Employee Assistance Professional Association).

**PREREQUISITES (13 UNITS)**

1. M.A. in Counseling or M.B.A. in Business Management or other related M.A. or M.B.A. with approval of the Program Coordinator, or B.A. in related field plus 3 years experience and recommendation of supervisor.

2. EPC 600 Educational Statistics for Research & Measurement............................................3  

or  

SOC 497 Methods of Social Research.........................3  

and  

SOC 497L Research Methods Laboratory ....................1  

3. A course in Counseling Skills Training is required:  

   PSY 460 Counseling and Interviewing........................3  

or  

EPC 451 Fundamentals of Counseling and Guidance ............3  

Courses should be selected that meet either Emphasis 1 (Human Resources Counseling) or Emphasis 2 (Employee Assistance Counseling)

4. Emphasis 1 - Human Resources Development (HRD)  

   MGT 360 Organizational Behavior............................3  

   EPC 657A Seminar in Career Counseling Theory ......3

   Emphasis 2 - Employee Assistance Counseling  

   MGT 360 Organizational Behavior............................3  

   SOC 340 Sociology of Work................................3  

or  

SOC 622 Sociology in Complex Organizations..............3  

or  

EPC 657A Seminar in Career Counseling Theory ......3

**COURSE SEQUENCING**

**SEMESTER 1 - EMPHASIS 1 AND 2**

EPC 685 Counseling in Business, Industry & Government ........................................3  

EPC 606 Seminar in Adult Development.................................3  

or  

EPC 609 Human Development: A Life Span Perspective.........................3  

**SEMESTER 2 - EMPHASIS 1**

EPC 686 Counseling in Business, Industry and Government ......................3  

SOC 440 Sociology of Aging ........................................3  

or  

EPC 660 Counseling for Career Adjustment and Change .........................3  

**SEMESTER 2 - EMPHASIS 2**

EPC 686 Counseling in Business, Industry and Government ......................3  

SOC 440 Sociology of Aging ........................................3  

or  

EPC 670 Family Counseling ........................................3  

**SEMESTER 3 - EMPHASIS 1**

EPC 659LC Internship in Counseling in Business, Industry & Government ........3  

COMS 653 Seminar in Organizational Communication Research ..............3  

MGT 481 Human Resources Development .........................3  

**SEMESTER 3 - EMPHASIS 2**

EPC 659LC Internship in Counseling in Business, Industry & Government ........3  

MGT Behavior in Organizations ........................................3

**ELECTIVES**

(1-3 units approved by Program Coordinator)

**SEMESTER 4 - EMPHASIS 1**

EPC 659MC Internship in Business, Industry and Government.........................3  

PSY 683 Seminar in Human Relations ................................3

**SEMESTER 4 - EMPHASIS 2**

EPC 659MC Internship in Business, Industry and Government.........................3  

EPC 658 Seminar in Group Counseling ................................3  

or  

PSY 646 Group Dynamics ........................................3  

**CERTIFICATE IN COLLEGE COUNSELING AND STUDENT SERVICES**

The Specialist Certificate program in College Counseling and Student Services is designed to prepare students for career opportunities and advancement in higher education with particular emphasis upon those positions that serve university and community college students on urban campuses. Special attention is given to working with diverse student populations including returning, minority and disabled students.

The College Counseling and Student Services program is designed for two types of students:

(1) for those individuals who desire training for entry level positions in student affairs; and

(2) for those who are already experienced professionals in student affairs and wish to increase their experience.

**REQUIREMENTS FOR ADMISSION:**

The Specialist Certificate in College Counseling and Student Services is a post-masters program. Students applying for the Specialist Certificate should hold a Master’s degree in
Counseling (or the equivalent Master’s degree). Students who hold Master’s degrees in fields other than counseling may be required to take courses beyond those outlined for the Specialist Certificate. Each candidate’s background and experience will be taken into consideration in determining requirements. Contact Rie Rogers Mitchell or Merrill Simon for specific information.

**FIELDWORK PLACEMENTS:**
There is a strong emphasis on the fieldwork component in the College Counseling and Student Services program. Students will have an opportunity to participate in several student affairs placements at both the community college and university level. Placement opportunities include, but are not limited to: academic advising, athletics (development, club sports, intramural), campus religious organizations, career planning, clubs and organizations, cooperative education, Dean of Students (administration, discipline), educational equity, entertainment, EOP, ESL, financial aid, fraternities and sororities, handicapped students, health services (administration, family planning), housing (administration, off-campus housing, residence halls), international programs, leadership training, Learning Resource Center, orientation, outreach and retention, student government, Student Union (food service, maintenance, operations, programming), veterans, volunteer organizations, Women’s Center.

**PROGRAM REQUIREMENTS:**
The following course requirements meet the requirements for the Certificate in Counseling and Student Services (CCSS) for graduate students who have a master’s degree in counseling or equivalent master’s degree.

### SEMESTER I
- **EPC 620** College Counseling & Student Services Profession ..........................3
- **EPC 659JC** Fieldwork in College Student Personnel Services............................3
- **EPC 606** Seminar in Adult Development....................................................3
- **EPC 609** Human Development: Life Span..................................................3
- **ELPS 601** American Higher Education....................................................3

### SEMESTER II
- **EPC 659KC** Fieldwork in College Student Personnel Services .........................3
- **EPC 608** Social Psychological Education....................................................3
- **EPC 622** American College Student and Campus Environment ........................3
- **ELPS 605** Administration of College Student Personnel Services ....................3

### CERTIFICATE IN PARENT-CHILD SPECIALIZATION/CONSULTATION
The Parent-Child Specialist/Consultant Certificate Program is designed for educators and human services professionals who want to (1) expand their knowledge of child development and parent-child interaction, and (2) gain skills in intervention and consultation with parents, teachers, and child care providers to enhance the quality of adult-child interaction and prevent serious problems from developing in children. The certificated parent-child specialist will be qualified to assist and support parents (including adoptive and foster parents) in effectively applying problem solving strategies to reduce stress on child and sibling relationships.

### REQUIREMENTS FOR ADMISSION:
Applicants for the Certificate Program must hold a master’s degree in early childhood education, child development, child mental health, counseling, psychology, family environmental sciences (emphasis on child development/family relations), social work, clinical pediatric nursing, or other relevant disciplines.

Applicants must have had at least one course in child development in the last 7 years and a minimum of two years of experience in working with children, parents or families. Applicants must meet the University criteria for acceptance into master’s programs. Applicants may be reviewed by the Program Committee especially set up for this certificate program.

### CERTIFICATE PROGRAM:
The program consists of 24 units of coursework, laboratory and field experiences. Six of the 24 units may be transferred from applicable units earned prior to acceptance into the Certificate Program, subject to approval by the coordinator.

Before students are admitted to the courses in Section A (below), they are required to have taken at least one of the following two courses:
- **EPC 638** Infant Development, Care & Education: Issues, Programs, Directions........3
- **(EPC 638 may be substituted for EPC 638)**
- **EPC 631** Individual and Group Work with Families in Early Childhood Programs ....3

These courses may be counted as part of the 24 required units.

Certificates candidates will develop a learning plan jointly with the Certificate coordinator to assure that they will acquire the necessary knowledge and skills.

A limited number of applicants will be accepted. Evaluation and selection will be made by the Certificate Committee on the basis of academic background and experience.

### REQUIRED CERTIFICATE PROGRAM COURSES
The 15 units in the Required Courses (below), the core of the Certificate program, are required. The student may select the remainder of the courses from other courses with the approval of the coordinator.

### REQUIRED COURSES (15 UNITS)
- **Applied Development, Assessment, and Consultation**
  - **EPC 646** Applied Development for Parent and Child Educators ..................3
  - **EPC 647** Assessment and Intervention with Child and Family in Various Settings ....3
  (to be taken concurrently with EPC 647)
  - **EPC 648** Consultation with Parents, Teachers and other Human Services Professionals ....3
  (to be taken concurrently with EPC 648)
  - **EPC 649** Practicum in Parent-Child Consultation ..................................4
  (each unit requires 40 hours of work in the field)

### ELECTIVES
(to be selected in consultation with the coordinator)
1. **Development and Education Theory and Application**
   - **EPC 606** Seminar in Adult Development .................................................3
314BL. PSYCHOLOGICAL FOUNDATIONS, K-12 (3)  
(Bilingual Emphasis) (Fulfills the requirement for the BCLAD, Spanish emphasis program)

Same course as EPC 314 except the course is taught in Spanish and is designed primarily for Single and Multiple Subjects-Bilingual Emphasis Credential. Requires a minimum of 20 hours of participation in public schools. (Restricted to candidates officially admitted to the Credential Program.)

401. FUNDAMENTALS OF MEASUREMENT (3)
Investigation of the nature and rationale of educational measurement with emphasis on the factors that affect the precision and relevance of test scores. Identification of limitations and justifications in the measurement of human characteristics.

401L. FUNDAMENTALS OF MEASUREMENT LABORATORY (1)
Application of statistical concepts in the solution of problems in educational research and experience in the use of computing equipment. Two hours of laboratory per week. LAB FEE REQUIRED.

423. SCHOOL-FAMILY INTERPERSONAL RELATIONS (3)
The dynamics of family-school relationships as they affect the interaction of teachers, parents, and pupils. Techniques and materials for parent conferences, group meetings, home visits in working toward solutions to problems of home, school, and neighborhood.

430. DEVELOPMENT AND LEARNING IN EARLY CHILDHOOD EDUCATION (3)
Prerequisite: PSYCH 150. An examination of various theoretical positions regarding development and learning; relevant research and implications for educational practice in early years.

430F. FIELD WORK IN DEVELOPMENT AND LEARNING IN EARLY CHILDHOOD (1)
Prerequisite: Previous or concurrent enrollment in EPC 430. Observation, child study and participation in a variety of preschool programs, including public schools, University Laboratory schools, Government and State sponsored programs and private schools. An Academic Internship course.

451. FUNDAMENTALS OF COUNSELING & GUIDANCE (3)
This course offers an overview of several approaches to counseling in school and community settings. An understanding of case study methods in assessing individual children is included. Overall guidance programs are studied, with emphasis on counseling relationships. (Admission restricted to seniors, PBU’s, and conditionally classified graduate students.)

496A-Z. EXPERIMENTAL COURSES IN EDUCATIONAL PSYCHOLOGY (3)

499. INDEPENDENT STUDY (1-3)

GRADUATE DIVISION

(The following courses are open to graduate students only. They may not be taken for undergraduate credit.)

600. EDUCATIONAL STATISTICS FOR RESEARCH & MEASUREMENT (3)
Prerequisite(s): An undergraduate course in basic mathematics and algebra, or permission of the instructor. Current graduate standing in the University. An introduction to basic descriptive and inferential statistics for applications to graduate courses in educational psychology, counseling, general graduate level educational courses in
tests and measurements, and research. Normally a prerequisite to EPC 601, Fundamentals of Measurement; and EPC 602, Principles of Educational Research, except when waived by instructor or when equivalent course taken.

601. INDIVIDUAL AND GROUP ASSESSMENT (3)
Prerequisite: EPC 600 or equivalent. An examination of individual and group assessment instruments and their application in the evaluation of intellectual performance, personality constructs, career interest and interpersonal relations. The course includes historical foundations, nondiscriminatory procedures, ethical standards, and social issues. LAB FEE REQUIRED.

602. RESEARCH PRINCIPLES (3)
Prerequisite: EPC 600. An introductory course in the techniques, use, presentation and understanding of research principles in education and counseling and its contribution to the solution of problems.

605. ADVANCED PSYCHOLOGICAL FOUNDATIONS OF EDUCATION (3)
Focuses on the interaction of the learning-teaching process. Emphasis on pertinent learning theories, individual differences in capacities and development of learners, and evaluation of learning and instructional models.

606. SEMINAR IN ADULT DEVELOPMENT (3)
Prerequisite: Beginning course in Human Development. This course focuses on adult stages, life crises, biological, psychological and social development; includes antecedents from childhood and adolescent years.

607. MOTIVATION IN LEARNING AND DEVELOPMENT: THEORIES AND APPLICATION IN EDUCATIONAL PSYCHOLOGY (3)
Prerequisite: One of the following: EPC 314, EPC 600, EPC 430, PSYCH 313, or an equivalent course. Theories of motivation and research findings with specific relevance to learning process and human development within the context of educational psychology will be examined. Psychological, social, cognitive and biological foundations of such motives will be included. Topics will include intrinsic motivation, achievement and career motivation, anxiety, causal attributions, extrinsic incentives and contingencies, and motivation in social learning. Applications of motivation theories to practical situations in educational psychology, counseling, teaching and supervising will be made.

608. SOCIAL PSYCHOLOGICAL EDUCATION (3)
Prerequisite: Consent of instructor. An intensive study of social psychological theories, research and types of social intervention which can be used in leadership training and group development. Includes such topics as socialization in school and family; organizational climate, roles and stereotypes in educational settings; understanding of group process and group skills in relation to goal structures; group facilitation skills; and the theory, research and practice of consultation and negotiation skills. Structured group laboratory experiences are included.

609. HUMAN DEVELOPMENT: A LIFE-SPAN PERSPECTIVE (3)
Prerequisite: EPC 430 or an equivalent course. An advanced course focusing on development from infancy through later adulthood. Theories and research with special relevance to the life-span will be examined. Topics will include cognitive, social, and personality development, and will examine biological, environmental, and family influences. The relevance of a life-span approach to development for those in human services professions will be emphasized.

611. SEMINAR IN EDUCATIONAL PSYCHOLOGY (3)
Prerequisite: Consent of instructor. Exploration and synthesis of the issues in metacognition, information processing, and evaluation of school-age learners.

612. ADVANCED STUDY IN CHILD AND ADOLESCENT DEVELOPMENT (3)
Recent contributions in research, practical experimentation, or theory which have important bearing upon the problems of human development; the significance of the developmental approach in working with children and youth and their impact throughout the life-span.

613. EVALUATION IN THE CLASSROOM (3)
Prerequisite: EPC 600. Investigation of the nature of evaluation, development of rationale for translating general objectives into behaviors and into measurement operations in the form of different types of tests in the different fields of knowledge. LAB FEE REQUIRED.

620. COLLEGE COUNSELING AND STUDENT SERVICES PROFESSION (3)
Examines theories and research in the field of student affairs. Introduces specialty areas, roles, and functions of college counselors and student services professionals. Analyzes current problems, future trends, professional standards, legal issues, and ethical concerns, as well as organizational patterns and the interactions of academic, business, and student affairs areas.

622. AMERICAN COLLEGE STUDENT AND CAMPUS ENVIRONMENT (3)
Examines personal characteristics and attitudes, social-cultural factors, and developmental theory as they pertain to traditional and non-traditional college students. Explores student development, student service, and campus ecology approaches. Surveys environmental assessment and needs analysis techniques, program planning, intervention strategies, and program evaluation relevant to the college population.

630. EDUCATION OF INFANT PARENT DYADS WITH SPECIAL NEEDS (3) (Cross listed as SPED 630)
Prerequisite: EPC 430 or FES 335. The study of parent involvement in educational and intervention programs of various types of children from birth on. Review of research on parent-infant interaction and its impact on development of the child. Examination of program models for infants and parents with special needs: assessment, educational planning and evaluation.

631. INDIVIDUAL AND GROUP WORK WITH FAMILIES IN EARLY CHILDHOOD PROGRAMS (3)
Prerequisite: EPC 632. Principles and methods in working with families of young children in early childhood programs from infant care programs through the primary grades. Family involvement in educational settings. Cultural and class differences in child rearing practices as considerations in work with parents.

632. ISSUES, THEORIES, & CURRENT PRACTICES IN EARLY CHILDHOOD (3)
Prerequisite: EPC 430. Current issues and trends in Early Childhood Education; examination of relationships between basic assumptions, theory, and practice.

633. DEVELOPMENTAL & LEARNING PROBLEMS IN EARLY CHILDHOOD (3)
Prerequisites: EPC 430 and EPC 632 (latter may be taken concurrently). Study of common problems of young children observable in a variety of environments. Range and
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites/Comments</th>
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<tbody>
<tr>
<td>634.</td>
<td>LANGUAGE &amp; CONCEPT DEVELOPMENT IN THE EARLY SCHOOL YEARS (3)</td>
<td>Prerequisite: EPC 430. A study of research and current theoretical positions in language and concept development with major emphasis on the implications for learning in the school setting.</td>
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<tr>
<td>635.</td>
<td>FOUNDATIONS OF DEVELOPMENTAL CURRICULUM FOR EARLY CHILDHOOD (3)</td>
<td>Prerequisites: EPC 430 and EPC 632 or consent of instructor. To be taken concurrently with experiences in the field either teaching or field work.</td>
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<tr>
<td>636.</td>
<td>COMPARATIVE EARLY CHILDHOOD EDUCATION AND CARE (3)</td>
<td>Prerequisites: EPC 430, EPC 632, and a course in child psychology or child development; Graduate standing. A seminar in early education and child care in different countries. Topics include: division of responsibility for child between family and state, predominant national values and goals, and the way in which these are reflected in the methodology and curricula of early childhood education.</td>
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<tr>
<td>637.</td>
<td>INFANT DEVELOPMENT, CARE AND EDUCATION: ISSUES, PROGRAMS, DIRECTIONS (3)</td>
<td>Prerequisite: EPC 430 or FES 335 or equivalent 3 unit course. Basic course in infant or Early Childhood Development. Theory and research on various aspects of infant development care and education. Assessment of infants from birth to age three, with and without handicaps, for educational planning. Infant intervention and infant day care issues, programs, problems, directions.</td>
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<tr>
<td>638.</td>
<td>LANGUAGE &amp; CONCEPT DEVELOPMENT IN THE EARLY SCHOOL YEARS (3)</td>
<td>Prerequisite: EPC 430. A study of research and current theoretical positions in language and concept development with major emphasis on the implications for learning in the school setting.</td>
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<tr>
<td>639A-F.</td>
<td>FIELDWORK IN EARLY CHILDHOOD (1-6)</td>
<td>Prerequisites: EPC 430 and Graduate standing. Arrangements must be made with the fieldwork coordinator during the previous semester. Normally students will enroll in this course for two, 3-unit semesters. A third semester may be approved with consultation with the advisor. Supervised fieldwork in a variety of early childhood and parent-child settings, in various types of communities, individually selected to expand the experiences of students and give them opportunities to work in areas relevant to their respective career goals. Students are required to spend forty (40) hours in the field per academic unit and attend a two-hour weekly seminar with their fieldwork supervisor. The seminar content is related to the students’ experience in the field. CR/NC only.</td>
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<td>640.</td>
<td>CREATIVITY AND THE SCHOOL (3) (Cross listed with EED 652) (Spring Semester Only)</td>
<td>This course will focus on identifying, generating, and extending a range of behaviors and conditions that will increase creative productivity in the classroom. It will examine various models of the creative process as well as the social/historical influences that have affected school practices.</td>
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<tr>
<td>641.</td>
<td>EVALUATION IN THE BILINGUAL CLASSROOM (3)</td>
<td>Basic course designed to deal with evaluation of the Bilingual student. Primary emphasis will be placed on the purpose of educational evaluation; the relationship between students identified needs; instructional objectives (cognitive, socio-emotional and psychomotor) and assessment strategies, criteria for instrument construction/selection, strategies for individual diagnosis, prescription and evaluation of the Bilingual learner.</td>
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<tr>
<td>642.</td>
<td>COUNSELING IN CROSS-CULTURAL SETTINGS (3)</td>
<td>Prerequisite: EPC 451 or equivalent 3 unit course. Principles of effective cross-cultural counseling including applicable theories, goals, skills and the techniques. Emphasis on historical and theoretical frameworks, culture conflict and personal identity, coping vs. personal empowerment; effective intervention models when working with ethnic and linguistic minorities. Designed for mental health personnel in school and community settings.</td>
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<td>643.</td>
<td>INTRODUCTION TO HUMANISTIC EDUCATION (3)</td>
<td>This course is designed to assist teachers and counselors in integrating the “affective” spectrum in the lives of students by applying insights gained from humanistic psychology. The integration of affective concerns into the cognitive content of lessons through the use of role playing, simulations, fantasy and group process will be discussed and demonstrated.</td>
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<tr>
<td>644.</td>
<td>APPLIED CHILD DEVELOPMENT FOR PARENT AND CHILD EDUCATORS (3)</td>
<td>Prerequisite: A course in Child Development. Recommended Course: EPC 638 or EPC 633. Seminar on behavior of children that creates problems for them and that adults find difficult. Examination of factors that contribute to emotional and behavior problems. Interaction between temperament and environment, and early signs of vulnerability for later pathology. The major focus is on applications of knowledge to effective and growth-supporting ways of dealing with children, geared to prevention of serious problems.</td>
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<td>646.</td>
<td>LABORATORY IN PARENT-CHILD ASSESSMENT AND INTERVENTION (1)</td>
<td>Prerequisite: Concurrent or prior enrollment in EPC 647. Applications of assessment of children and adults-child interactions (studied in EPC 647) with an emphasis on techniques of observational assessment, and planning of intervention strategies for individual cases.</td>
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<tr>
<td>647.</td>
<td>CONSULTATION WITH PARENTS, TEACHERS AND OTHER HUMAN SERVICE PROFESSIONALS (3)</td>
<td>Prerequisite: A course in Child Development. Recommended Course: EPC 646 or EPC 647. The exploration and study of theory-derived practices regarding communication and consultation with parents and teachers with respect to problems they encounter with children. Educational and clinical applications. Issues regarding information sharing with other professionals. Collaborating with other professionals and making referrals.</td>
</tr>
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</table>
| 648.       | LABORATORY IN CONSULTING WITH PARENTS, TEACHERS AND OTHER PROFESSIONALS (1)  | Prerequisite: Concurrent or prior enrollment in EPC 648. Practice in consulting with parents and professionals, based on the study of the content of EPC 648 of which this laboratory is an adjunct. Practice will occur both in the form
of role playing and peer consulting and, when possible, with parents, child care providers or teachers in the field.

649. PRACTICUM IN PARENT-CHILD CONSULTATION (1-4) (Each unit requires 40 hours of work in the field)
Prerequisite: EPC 647 or EPC 648. Recommended Courses: EPC 647 and EPC 648. Supervised practice of assessment, intervention planning and consulting with parents and/or other adults caring for child. Practicum in the field will include individual and group consulting with parents (both with and without children present) and, when appropriate, with other adults (teachers, caregivers). CR/NC only.

650. THE COUNSELOR IN THE COMMUNITY (3)
Prerequisites: EPC 451 or undergraduate major in social or behavioral science and department acceptance into M.S. program in Counseling or final acceptance into Pupil Personnel Services Credential Program. An introduction to precepts of community counseling in the emerging fields of Human Services. Theories of counseling, cultural diversity, career choice, perception, motivation, women, aging, are covered. Institutions: schools, the world of work, families, partnerships, and case study methods are included.

651. SEMINAR IN PUPIL PERSONNEL SERVICES IN ELEMENTARY AND SECONDARY SCHOOLS (3)
Prerequisites: EPC 654 and EPC 656. A comprehensive study of pupil personnel services within elementary and secondary schools including: role and function of the counselor; development and organization of guidance services; program evaluation strategies; model guidance programs; individual evaluation instruments specific to children; techniques of consulting with teachers, parents, and other school personnel; appropriate referral agencies; professional resources; and current issues.

652. FAMILY LAW (3)
Prerequisite: Graduate standing. A consideration of the statutory regulations and community and social provisions relating to families, and of their implementation. Coordination of legal and social agencies.

653. MEASUREMENT FOR SCHOOL AND CAREER COUNSELING (3)
Prerequisite: EPC 600. An investigation of standardized group tests, with emphasis on their sources, evaluation, selection, administration, scoring and interpretation of results. LAB FEE REQUIRED.

654. COUNSELING ADOLESCENTS (3)
Prerequisites: EPC 659A and EPC 659B, or equivalent courses. Theory and techniques of counseling adolescents. Emphasis on developmental needs of adolescents as they relate to counseling for personal adjustment, career-vocational planning, peer group interactions, and family relations.

655. SEMINAR IN COUNSELING THEORY AND PRACTICE (3)
Prerequisite: EPC 451. An advanced course in counseling theory and practice. Influential theories of counseling are analyzed, evaluated and compared. Techniques associated with each theory are examined and practiced. Refinement of the student’s personal counseling style is emphasized.

656. SEMINAR IN CHILD COUNSELING (3)
Prerequisite: EPC 451. Includes child and adolescent counseling theories and research, evaluation approaches, therapeutic techniques, legal and ethical problems, parent and teacher consultation techniques and community resources. Child abuse, suicide prevention, crisis intervention approaches, peer group interactions, and substance abuse are also studied.

657. SEMINAR IN CAREER COUNSELING THEORY (3)
Prerequisite: EPC 451. A comprehensive review and critique of current career development and decision theories; exploration of changing concepts of work and careers, and their implications for career planning. Focus on the relationship of career to other issues of counseling and development. LAB FEE REQUIRED.

658. SEMINAR IN GROUP COUNSELING (3)
Prerequisites: EPC 451 and EPC 655 and consent of instructor. (Concurrent Enrollment in EPC 655.) Theory and practice of group counseling; group work and group development in various settings. The course is designed to develop and increase understanding and skills related to group counseling; to stimulate interest in working with groups; to enable counseling personnel to consider appropriate uses for group counseling and to evaluate its effectiveness in demonstration and practice.

658L. GROUP COUNSELING LABORATORY (1)
Prerequisites: EPC 451 and EPC 655. (Concurrent Enrollment in EPC 655.) This course is an extensive practical experience in group counseling entailing supervised feedback. Theory is applied to the actual practice of group work.

659A. COUNSELING PRACTICUM - COMMUNICATION (3)
(Concurrent Enrollment in EPC 655.) Communication theory and skills, designed to help students develop greater self-knowledge and become aware of their impact on others through participation in group experiences and peer counseling; emphasis on verbal and non-verbal cues, refinement of basic response skills, and the subtleties of language and style.

659B. COUNSELING PRACTICUM: SKILLS (3)
Prerequisite: EPC 659A. (Concurrent Enrollment in EPC 643.) Supervised application of counseling skills in classroom and fieldwork settings, including peer counseling and field counseling sessions. Normally students will enroll in EPC 659A and EPC 659B for two, 3-unit semesters. A third semester may be approved with consultation with the advisor.

659C & D. FIELDWORK IN COUNSELING SERVICES (1-6)
Prerequisites: EPC 643, EPC 655, EPC 659A and EPC 659B. Supervised field training in an organized program for those specializing in pupil personnel services at either elementary or secondary level, or those interested in community-based counseling. Flexible units with consent of advisor. Normally students will enroll in EPC 659C and EPC 659D for two, 3-unit semesters. A third semester may be approved with consultation with the adviser. CR/NC only.

659E & F. FIELDWORK IN SCHOOL PSYCHOLOGY (1-6)
These two courses are designed to help the student learn the job of the School Psychologist through actual fieldwork experience. Primary emphasis is on learning the function of a School Psychologist; increasing psycho-diagnostic skills to a point where the student is able to select, administer, and interpret appropriate assessment measures; learning to work
with children, parents, teachers, and administrators; acquiring skill in administrative and coordinating aspects of the job. The student will work closely with the field and campus supervisors. Normally students will enroll in EPC 659E and EPC 659F for two, 3-unit semesters. A third semester may be approved with consultation with the adviser. CR/NC only.

### 659G & H. INTERNSHIP IN SCHOOL PSYCHOLOGY (1-6)
Prerequisites: EPC 659E and EPC 659F or PSYCH 655C. An intensive supervised internship in a multi-cultural school for those completing the Pupil Personnel Services Credential/School Psychologist Authorization. Course objectives require vigorous application of diagnostic prescriptive and consultative skills. Students will complete a total of six (6) units. Actual number of units taken per semester is determined by instructor and student. Normally students will enroll in EPC 659G and EPC 659H for two, 3-unit semesters. CR/NC ONLY.

### 659J & K. FIELDWORK IN COLLEGE COUNSELING & STUDENT SERVICES (1-6)
Prerequisites: EPC 620, EPC 659A and EPC 659B. Intensive supervised fieldwork experience in an organized program for those specializing in college counseling and student services. Students are required to develop a comprehensive learning plan and spend at least two hours per week in individual and /or group supervision. Actual number of units taken per semester is determined by instructor and student. Normally students will enroll in EPC 659J and EPC 659K for two, 3-unit semesters. CR/NC only.

### 659L & M. INTERNSHIP IN COUNSELING IN BUSINESS, INDUSTRY AND GOVERNMENT (1-6)
Prerequisites: Consent of instructor. Eight hours per week supervised placement in business or industrial setting with experience in employee assistance counseling, human resources development and career development counseling. The student will attend weekly seminars and will work closely with university and on-site supervisors, receiving one hour face-to-face supervision per week. Normally students will enroll in EPC 659L and EPC 659M for two, 3-unit semesters. A third semester may be approved with consultation with the adviser. CR/NC only.

### 660. COUNSELING FOR CAREER ADJUSTMENT & CHANGE (3)
Prerequisite: EPC 657. A seminar to develop career counseling competencies uniquely related to the needs of adult clients who are faced with problems of career adjustment and change. The course includes theoretical constructs and models to prepare career counseling professionals for work in business and industry, adult schools and higher education, and various private settings.

### 662. CURRENT ISSUES IN CAREER EDUCATION AND COUNSELING (3)
Prerequisite: EPC 657. A seminar to investigate current and emerging issues which affect the nature of career education and counseling. Focus is on the implications of the counseling needs of special populations, job market shifts and the availability of work, changing work patterns, and longitudinal career development research, for career counseling practices.

### 663A & B. CLINICAL & PSYCHOMETRICS ASSESSMENT TECHNIQUES (3-3)
Prerequisites: EPC 600 and EPC 653. Corequisites: EPC 689E and EPC 689F. (Special Education 610 is recommended as an introductory course.) History, theory and practice of individual assessment. Emphasis on intellectual abilities testing as it relates to learning and adequate functioning. Supervised practice in test administration, interpretation of data from multiple sources and communication of results for program planning. (Limited to students accepted in the School Psychologist Credential Program.) LAB FEE REQUIRED.

### 664. CASE STUDY OF THE ATYPICAL CHILD (3)
Prerequisites: EPC 663A and EPC 663B, or PSYCH 625A and PSYCH 625B. The use of the individual case study of atypical children in assessing their overall functioning in the school. Supervised practice in the development of case studies and program planning. LAB FEE REQUIRED.

### 670. FAMILY COUNSELING (3)
Prerequisites: EPC 451 and EPC 650. Theory and practice of family counseling. Study of counseling problems and situations related to families. Analysis of transcripts and actual demonstrations; examination of major theorists; theoretical formulations; analysis of family dysfunction; goals of family counseling and conditions for behavior changes.

### 671. LAWS AND ETHICS FOR COUNSELORS (3)
Prerequisite: Graduate Standing. A consideration of the legal requirements and ethical principles relating to families and students, and of their implementation. Coordination of legal and social agencies.

### 675. COUNSELING AND CHEMICAL DEPENDENCY (3)
An examination of counseling issues pertaining to chemically dependent, drug abusing clients with focus on etiology, historical and contemporary patterns of abusers and their families, assessment, and treatment.

### 676. SEMINAR IN GENETIC COUNSELING (3) (See Department of Biology for Program Information)
Prerequisite: Completion of prerequisites to the Genetic Counseling Program, or equivalents. This course focuses on contemporary issues in genetic counseling including the social/cultural, ethical/legal, and individual/family foundations. Attitudes and values of a diverse multicultural client population in the genetic counseling context will be examined. Crisis and grief counseling are included. Focus will be on the relevance of these issues in the clinical setting.

### 677. COUNSELING COUPLES IN RELATIONSHIPS (3)
Prerequisite: EPC 451 Fundamentals of counseling admission to MFCC program, or permission of instructor. This course provides theoretical and skills training in counseling couples, including family issues, parenting, domestic friction and violence, new marriages, non-traditional marriages, multi-cultural issues, partnerships, and divorce. Course is required for MFCC major.

### 680. SEMINAR IN SCHOOL PSYCHOLOGY (3) (Concurrent enrollment in EPC 659G or EPC 659H or PSYCH 655D)
An in-depth review of topics in educational and social psychology relevant to the school psychologist. Exploration and analysis of personal requirements necessary for competence as a school psychologist. A culminating seminar required for the School Psychologist Credential.

### 681. CLASSROOM COMMUNICATION & MANAGEMENT METHODS (3) (Cross listed with EED 681)
Prerequisites: Possession of Elementary School Teaching Credential; EPC 314 (or equivalent 3 unit course), or PSYCH 350. This course will focus on a study of the theoretical bases and the implementation of a range of approaches to classroom communication and management; e.g., the behavioral modification approach, the socio-emotional
climate approach, and the group-process approach. These approaches will be used in role-playing and analyzing typical classroom problem situations.

685. SEMINAR IN COUNSELING IN BUSINESS, INDUSTRY AND GOVERNMENT: SKILL DEVELOPMENT FOR HUMAN RESOURCES AND EMPLOYEE ASSISTANCE (HRD) (3)
Prerequisite: EPC 451 or PSYCH 460. The purpose of this course is to explore the inter-relationship between the fields of counseling in business, industry and government, management and human resources development. Focus is on the development of counseling strategies and skills appropriate to the work setting.

686. SEMINAR IN COUNSELING IN BUSINESS, INDUSTRY AND GOVERNMENT: HUMAN RESOURCES DEVELOPMENT AND EMPLOYEE ASSISTANCE (3)
Prerequisite: EPC 451 or PSYCH 460. This seminar focuses on topics students typically face in counseling in organizational settings, including ethical conflicts in the workplace, organizational diagnoses, communication skills, industrial mental health, mental health problems of managers and supervisors, and legal issues governing the employee and employer in the workplace. Focus is on the critical strategies and skills applicable to the training and development process.

695A-Z. SEMINAR IN SELECTED STUDIES (3)
Prerequisite: Graduate standing. Special seminars in selected topics.

696. DIRECTED GRADUATE RESEARCH (3)
Students are responsible for defining and organizing their own research problems. Reports on research are expected to be made to department faculty. CR/NC only.

697. DIRECTED COMPREHENSIVE STUDIES (3)
Prerequisite: Prior completion of all courses required in the program. Advanced studies of comprehensive topics. CR/NC only.

698C. THESIS/GRADUATE PROJECT (3-6)
Prerequisite: Prior completion of all courses required in the program. Acceptance by a thesis committee. A thesis or project on an advanced topic in the field of education. CR/NC only.

699A-C. INDEPENDENT STUDY (1-3)
**ELEMENTARY EDUCATION**
Chair: Arlinda Eaton

**COLLEGE OF EDUCATION**
Department Office: Education 1206
Phone: (818) 677-2621 Fax: (818) 677-5723
E-mail: edelem.edu@csun.edu
Administrative Coordinator: Julie Corelli
Administrative Assistant: Frank Vargas

**FACULTY:** Hooshang Bagheri, George Barker, Sandra Chong, Irene Cota, Maria Czech, Cynthia Desrochers, Arlinda Eaton (Chair), Donna Emery-Dorsey, Sydney Farivar, Barbara Hawkins, Hillary Hertzog, Philip Kligman, David Kretschmer, Brenda Lakin, Sabrina Peck, Thomas Potter, Ana Hawkins, Hillary Hertzog, Philip Kligman, David (Chair), Donna Emery-Dorsey, Sydney Farivar, Barbara I. Cota, Maria Czech, Cynthia Desrochers, Arlinda Eaton

**EMERITUS FACULTY:** Martha Brockman, VanDyk Buchanan, John Carlson, Harriet Easley, Marilyn Hendrick, Helen Fielstra, Elizabeth Hone, Linda Jones, Raymond Jung, Edward Labinowitz, Yvonne Loffhouse, Marion Marion, Seymour Metzner, Walter Nelson, O. V. Porterfield, James Shanks, Fehl Shirley, Susan Wasserman

**CREDENTIAL ADVISERS:** Contact Credential Preparation Office, (818) 677-2586.

**COORDINATOR OF STUDENT TEACHING:** Sandra Chong. Credential candidates should make appointments for advisement with the administrative assistant, (818) 677-2621.

**GRADUATE ADVISER:** Brenda Lakin. Graduate students should make appointments for advisement with the administrative coordinator, (818) 677-2621.

**DEGREE OFFERED:** Master of Arts in Education with specializations in Curriculum and Instruction, Language and Literacy, and Multilingual/Multicultural Education.

**CREDENTIALS OFFERED:** Multiple Subject Credential, including CLAD and BCLAD Emphases, and the Reading/Language Arts Specialist Credential.

**THE GRADUATE PROGRAM:** The M.A. Degree program builds upon the competencies developed in the Multiple Subject Credential program, preparing students to become more effective teachers and researchers in their own classrooms, develop skills for additional job opportunities in education, and take leadership positions at schools and in professional organizations. Students are also prepared for entry into doctoral programs.

**CREDENTIAL PROGRAMS:** The Multiple Subject Credential program is primarily designed for persons who desire to teach in self-contained classrooms such as are usually found in an elementary school. The CLAD Emphasis Credential program prepares candidates to provide effective instruction in English for students who are in the process of acquiring English as a second language. Persons who are proficient in two languages (Spanish and English, or Korean and English) learn how to teach bilingually in the BCLAD Emphasis Credential program. These credential programs are available to qualified students who have a grade point average in the upper half of their academic discipline. The Multiple Subject University Internship Credential program is open to qualified students who have completed a B.A. Degree and are employed as teachers in self-contained classrooms in nearby school districts. The Reading/Language Arts Specialist Credential program is for educators who are holders of a basic teaching credential and have successfully completed a minimum of three years of teaching. This program will prepare them to become literacy leaders capable of filling such positions as reading/language arts coordinators, consultants, mentor teachers, staff development coordinators, and curriculum directors.

**REQUIREMENTS FOR THE MASTER OF ARTS DEGREE**
The Master of Arts Degree in Education offered by the Department of Elementary Education is designed to provide candidates with advanced professional preparation in education for (1) assuming differentiated careers in school districts, professional organizations, and the community and (2) continuing into a doctoral program. Some of the requirements for a Clear Credential can be incorporated as a part of the M.A. program.

**FOR ADMISSION TO THE PROGRAM**
1. General university requirements.
2. Completion of student teaching and its prerequisites or verification of two years of acceptable teaching experience.
3. EED 501 Introduction to Graduate Studies in Elementary Education (1)

**FOR CLASSIFIED STATUS**
1. An undergraduate grade point average of 3.0 or higher
or
A University-approved aptitude test for graduate study (GRE or MAT).
2. Successful completion of the Upper Division Writing Proficiency Examination with a score of 10 or better.

**SPECIAL REQUIREMENTS**
1. No more than 12 units of credit may be applied to a M.A. program until classified status is attained.
2. Courses more than seven years old will not be included in the total of 30 units required for the M.A. Degree.
3. A corequisite for the M.A. in Education Degree is a clear teaching credential.

**REQUIRED COURSES (9 UNITS)**

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<tbody>
<tr>
<td>EED 610</td>
<td>Research in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>(Completion required within first nine units of program.)</td>
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</tbody>
</table>

**SPECIAL REQUIREMENTS (21 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EED 601</td>
<td>Curriculum, Instruction and the Reflective Teacher</td>
<td>3</td>
</tr>
<tr>
<td>(Completion required within first two semesters of program.)</td>
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<tr>
<td>EED 602</td>
<td>Applying Technology to Curricular Goals</td>
<td>3</td>
</tr>
</tbody>
</table>

**SPECIALIZATION: CURRICULUM & INSTRUCTION (21 UNITS)**

**REQUIRED COURSES (18 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EED 633</td>
<td>Seminar in Elementary School Language Arts Education</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>EED 670</td>
<td>Research Applications in ESL Instruction</td>
</tr>
<tr>
<td>EED 638</td>
<td>Seminar in Elementary School Social Studies Education</td>
<td>3</td>
</tr>
<tr>
<td>EED 643</td>
<td>Seminar in Elementary School Mathematics Education</td>
<td>3</td>
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<tr>
<td>EED 648</td>
<td>Seminar in Elementary School Science Education</td>
<td>3</td>
</tr>
<tr>
<td>EED 649</td>
<td>Elementary School Interdisciplinary Arts Education</td>
<td>3</td>
</tr>
<tr>
<td>EED 675</td>
<td>Bilingual/Multicultural Teaching Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTIVES (3 UNITS)**

E elective courses are selected by the student, subject to the approval of the Graduate Adviser.
SPECIALIZATION: LANGUAGE AND LITERACY (21 UNITS)

PREREQUISITE (3 UNITS)
ENGL 405 Language Differences and Language Change ........................................3

REQUIRED COURSES (17 UNITS)
EED 621 Language, Literacy and Culture Across the Curriculum ..................................3
EED 625A Literacy Assessment and Teaching Strategies [A] .........................................3
EED 625AL Laboratory in Literacy Assessment and Teaching Strategies [A] ......................1
EED 625B Literacy Assessment and Teaching Strategies [B] .........................................3
EED 625BL Laboratory in Literacy Assessment and Teaching Strategies [B] ......................1
EED 626 Literacy Instruction for English Learners .........................................................3
EED 633 Seminar in Elementary School Language Arts Education ..................................3

ELECTIVES (4 UNITS)
Elective courses are selected by the student, subject to the approval of the Graduate Adviser.

SPECIALIZATION: MULTILINGUAL/MULTICULTURAL EDUCATION (21 UNITS)

REQUIRED COURSES (15 UNITS)
EED 626 Literacy Instruction for English Learners .........................................................3
EED 670 Research Applications in ESL Instruction .........................................................3
EED 671 Seminar in Multilingual/Multicultural Education .............................................3
EED 674 Bilingual/Multicultural Curriculum .................................................................3
EED 675 Bilingual/Multicultural Teaching Strategies ....................................................3

ELECTIVES (6 UNITS)
Elective courses are selected by the student, subject to the approval of the Graduate Adviser.

CULMINATING EXPERIENCE (3 UNITS)
A. Satisfactory completion of the Comprehensive Examination
or
B. Thesis or Graduate Project
EED 698 Thesis or Graduate Project .................................................................3
(These units may be used to meet elective requirement.)

TOTAL UNITS REQUIRED FOR THE DEGREE: 30

COURSE LIST

LOWER DIVISION

295A,B,C. TUTORIAL FIELDWORK IN ELEMENTARY EDUCATION (1-2-3)
This is an experiential education fieldwork course placing CSUN students in a one-to-one tutoring relationship with elementary school pupils. Tutors will receive guidance in instructional techniques, consult with public school teachers, and keep pupil performance records. Open to all majors in good academic standing. An Academic Internship course.

397SO. ELEMENTARY SCHOOL EXPERIENTIAL PROGRAM (3)
Corequisite: Teacher’s Aide position in an approved elementary school. This course is designed for students seeking to elect or enhance a career in elementary education or the child development professions. In conjunction with the paid experience as a teacher’s aide, students will undertake projects that examine teaching-related techniques and issues. The elementary school experience will be the foundation for these projects and the subject of class instruction and discussion. An Academic Internship course.

496A-Z. EXPERIMENTAL COURSES (1-3)
Selected topics in elementary education with course content to be determined.

499. INDEPENDENT STUDY (1-3)

501. INTRODUCTION TO GRADUATE STUDIES IN ELEMENTARY EDUCATION (1)
Prerequisites: Admission to the Multiple Subject Credential Program, or teaching credential or equivalent. Introduction to the needs of new graduate students. Provides an overview of career opportunities in education and the relationship of individual skills and interests to these opportunities. The nature of demands on student with an overview of research methodology and academic writing in education is emphasized. The model of the graduate student in education as a teacher-practitioner and researcher is presented.

520. TEACHING READING IN THE ELEMENTARY SCHOOL (3)
This course in developmental reading instruction focuses on the place of reading in a total language arts curriculum, a variety of definitions of reading and their implications for instruction, current reading approaches, word-attack strategies, methods and materials used in directed reading instruction as well as in the content subjects, and a discussion of methods and materials for the culturally and/or linguistically diverse. Twenty (20) hours of directed observation/participation in the public schools are required. Restricted to candidates officially admitted to the credential program.

520AK. TEACHING READING IN THE ELEMENTARY SCHOOL (3)
Same as EED 520 except literacy instruction in the primary language and the transference of skills to English are emphasized. This course is designed primarily for Korean/English bilingual credential candidates in the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential program.

520BL. TEACHING READING IN THE ELEMENTARY SCHOOL (3)
Same as EED 520 except literacy instruction in the primary language and the transference of skills to English are emphasized. This course is taught in Spanish and English.
570M. ELEMENTARY SCHOOL CURRICULUM (3)
Prerequisites: 1. Admission to Teacher Education Program (contact Credential Preparation Office for details). 2. Admission to student teaching (contact Credential Preparation Office). Corequisite: EED 571ST. A methods course teaching the basic content and competencies required for effective instruction in elementary school language arts and social sciences. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines.

570MBL. ELEMENTARY SCHOOL CURRICULUM (3)
Same as EED 570M except instruction in the primary language, transference of skills to English and organizational approaches specific to bilingual education are emphasized. This course is taught in Spanish and English and is designed primarily for Spanish/English bilingual credential candidates in the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential program. Prerequisites: 1. Admission to Teacher Education Program (contact Credential Preparation Office for details). 2. Admission to student teaching (contact Credential Preparation Office). Corequisite: EED 571BL. A methods course teaching the basic content and competencies required for effective instruction in elementary school language arts and social sciences. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines.

570MAK. ELEMENTARY SCHOOL CURRICULUM (3)
Same as EED 570M except instruction in the primary language, transference of skills to English and organizational approaches specific to bilingual education are emphasized. This course is designed primarily for Korean/English bilingual credential candidates in the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential program. Prerequisites: 1. Admission to Teacher Education Program (contact Credential Preparation Office for details). 2. Admission to student teaching (contact Credential Preparation Office). Corequisite: EED 571BL. A methods course teaching the basic content and competencies required for effective instruction in elementary school language arts and social sciences. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines. Restricted to candidates officially admitted to the credential program.

570M. ELEMENTARY SCHOOL CURRICULUM (3)
Prerequisites: 1. Admission to Teacher Education Program (contact Credential Preparation Office for details). 2. Admission to student teaching (contact Credential Preparation Office). Corequisite: EED 571ST. A methods course teaching the basic content and competencies required for effective instruction in elementary school language arts and social sciences. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines.

570MBL. ELEMENTARY SCHOOL CURRICULUM (3)
Same as EED 570M except instruction in the primary language, transference of skills to English and organizational approaches specific to bilingual education are emphasized. This course is taught in Spanish and English and is designed primarily for Spanish/English bilingual credential candidates in the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential program. Prerequisites: 1. Admission to Teacher Education Program (contact Credential Preparation Office for details). 2. Admission to student teaching (contact Credential Preparation Office). Corequisite: EED 571BL. A methods course teaching the basic content and competencies required for effective instruction in elementary school language arts and social sciences. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines.

570MAK. ELEMENTARY SCHOOL CURRICULUM (3)
Same as EED 570M except instruction in the primary language, transference of skills to English and organizational approaches specific to bilingual education are emphasized. This course is designed primarily for Korean/English bilingual credential candidates in the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential program. Prerequisites: 1. Admission to Teacher Education Program (contact Credential Preparation Office for details). 2. Admission to student teaching (contact Credential Preparation Office). Corequisite: EED 571BL. A methods course teaching the basic content and competencies required for effective instruction in elementary school language arts and social sciences. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines. Restricted to candidates officially admitted to the credential program.

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Prerequisites: 1. Admission to Teacher Education Program (contact Credential Preparation Office for details). 2. Admission to student teaching (contact Credential Preparation Office). Corequisite: EED 571ST. A methods course teaching the basic content and competencies required for effective instruction in elementary school language arts and social sciences. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines.

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Same as EED 570M except instruction in the primary language, transference of skills to English and organizational approaches specific to bilingual education are emphasized. This course is taught in Spanish and English and is designed primarily for Spanish/English bilingual credential candidates in the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential program. Prerequisites: 1. Admission to Teacher Education Program (contact Credential Preparation Office for details). 2. Admission to student teaching (contact Credential Preparation Office). Corequisite: EED 571BL. A methods course teaching the basic content and competencies required for effective instruction in elementary school language arts and social sciences. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines.

570MAK. ELEMENTARY SCHOOL CURRICULUM (3)
Same as EED 570M except instruction in the primary language, transference of skills to English and organizational approaches specific to bilingual education are emphasized. This course is designed primarily for Korean/English bilingual credential candidates in the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential program. Prerequisites: 1. Admission to Teacher Education Program (contact Credential Preparation Office for details). 2. Admission to student teaching (contact Credential Preparation Office). Corequisite: EED 571BL. A methods course teaching the basic content and competencies required for effective instruction in elementary school language arts and social sciences. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines. Restricted to candidates officially admitted to the credential program.
officially admitted to the credential program.

580MBL. ELEMENTARY SCHOOL CURRICULUM (3)
Same as EED 580M except instruction in the primary language, transference of skills to English and organizational approaches specific to bilingual education are emphasized.
This course is taught in Spanish and English and is designed primarily for Spanish/English bilingual credential candidates in the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential program.
Prerequisites: Successful completion of EED 570MBL and EED 571BL; Math 210. Corequisite: EED 581BL. A methods course teaching the basic content and competencies required for effective instruction in elementary school science and mathematics. It is offered concurrently with a student teaching assignment. Inquire at the Credential Preparation Office for application date deadlines. Restricted to candidates officially admitted to the credential program.

581ST. STUDENT TEACHING IN THE ELEMENTARY SCHOOL (6)
Prerequisites: Same as for EED 580M. Corequisite: EED 580M. Student teaching for the Multiple Subject and the Multiple Subject - Crosscultural, Language and Academic Development Emphasis Credential. Inquire at the Credential Preparation Office for application date deadlines.

581BL. STUDENT TEACHING IN THE ELEMENTARY SCHOOL (6)
Same as EED 581ST except course is designed primarily for Spanish/English and Korean/English bilingual credential candidates in the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential program.
Prerequisites: Same as for EED 580MAK and 580MBL. Corequisite: EED 580MAK or 580MBL. Student teaching for the Multiple Subject - Bilingual, Crosscultural, Language and Academic Development Emphasis Credential. Inquire at the Credential Preparation Office for application date deadlines.

592. AUDIOVISUAL INSTRUCTION - METHODS AND TECHNIQUES (3)
Theories, methods and experience in the utilization of instructional media. Presents a variety of audio and visual techniques for classroom instruction.

GRADUATE

601. CURRICULUM, INSTRUCTION, AND THE REFLECTIVE TEACHER (3)
Completion of Student Teaching. In addition to exploring the philosophical and research bases for instructional practices and instructional decision-making, the course examines curricular theories and their influence on teaching/learning. Contemporary educational research and literature provide a framework for examining fundamental issues in education and their impact on current practices. Opportunities to engage in reflective thinking are an integral part of the course.

602. APPLYING TECHNOLOGY TO CURRICULAR GOALS (3)
Prerequisite: EED 513, Computers in the Elementary School Curriculum. This is an advanced level course in the use of computers in the elementary school curriculum. Primary emphasis will be on applications in the various curricular areas in the self-contained classroom with one, two or more computers. Content will include practical and theoretical considerations such as manipulating and analyzing data, communicating through a variety of electronic media, interacting and collaborating with others using the computer-based tools, and developing lessons based upon technological resources. Students will review, modify and design teacher-created instructional materials, which meet their own curricular needs. These materials include Web pages, gameboards, visual charts and multimedia instructional modules. The major software tools used will be word processing, database, spreadsheets, drawing and paint programs, Web publishing software, Internet search engines, and presentation tools. This course meets the Professional Credential requirement in computer-based technology.

610. RESEARCH IN ELEMENTARY EDUCATION (3)
(Formerly EED 510)
Prerequisite: Completion of Multiple Subject Credential. Completion required within first nine units in Master of Arts degree program. This course must be taken prior to all graduate seminar courses. Survey and analysis of research in elementary education, chiefly in areas of contemporary interest which cut across all curricular fields. Emphasis will be on learning to use a wide range of research reference sources, on understanding of research designs utilized in a variety of research studies, and on use of criteria in evaluating the findings and conclusions of such studies.

613. COMPUTERS IN THE ELEMENTARY SCHOOL CURRICULUM (3)
(Formerly EED 513)
Prerequisite: Mathematics 210, or equivalent. A course about the use of microcomputers in elementary school classrooms. Research findings related to computers in elementary schools. Significance of the computer in elementary instruction, its contribution to learning theory, problem solving and computational skills. Emphasis will be on application of software, as a teaching methodology, and its relationship to specific learning objectives of elementary school curriculum and instruction. Approved course for Computer Education Credential requirement.

614. EVALUATION OF SOFTWARE IN ELEMENTARY CURRICULUM (3)
(Formerly EED 514)
Prerequisite: EED 613 or equivalent. A course which surveys software relevant to the elementary school curriculum. Included in this survey will be word processing, Logo, Pilot graphics, educational games and simulations, practice and integrated drill programs and classroom management programs. The analysis and evaluation of material from the various curriculum areas and elementary grade levels which are initiated in EED 613 will be extended.

615. LEARNING AND TEACHING WITH LOGO (2)
(Crosslisted as SED 615)
Prerequisite: EED 613 or SED 514 or equivalent. Investigates Logo learning environments through computer programming, analysis of the Logo philosophy and research bases, examination of classroom implementation reports, and consideration of the role of the teacher as co-learner and facilitator of problem solving.

616. MICROCOMPUTERS AND TECHNOLOGY IN THE DEVELOPMENT OF ENGLISH/LANGUAGE ARTS (3)
(Formerly EED 516)
Prerequisites: EED 520 and EED 613 or equivalent. Theory and practice in the development of reading and writing through the use of microcomputers, software, and related technology. Topics include: basic principles of reading and writing instruction; selection and use of microcomputer software in teaching reading and writing; word processing and data base management; microcomputer-based literacy curriculum development; research findings related to microcomputers and technology in English/Language Arts instruction.
620. ELEMENTARY SCHOOL READING EDUCATION (3)
(Formerly EED 520)
Prerequisite: EED 520 or equivalent. Designed as an in-service course, emphasis is placed on adjusting reading methodology to the needs of the individual child’s interest, aptitudes and competencies. Major emphases include: (1) survey of theories of the reading process; (2) description of instruments measuring reading; (3) selection, use, and evaluation of materials, methods and approaches in reading instruction, and (4) locating and using professional literature on reading. Field experience involves the application of knowledge and skills of reading instruction to a group of elementary pupils.

621. LANGUAGE, LITERACY, AND CULTURE ACROSS THE CURRICULUM (3)
Prerequisite: EED 520 or equivalent. Students will explore the part that language arts play in learning course content across the curriculum. They will also study how ability to read, write, speak, listen, and think are developed within various content areas. Focus will be on instructional strategies and assessment. Both experiential and verbal learning will be considered. The unique characteristics of various content areas will be discussed. Cultural perspectives will be infused into the curriculum.

624. PRACTICUM IN DIAGNOSING AND FACILITATING READING PROGRESS (K-12) (3) (Crosslisted as SED 624)
(Formerly EED 524)
Prerequisites: EED 620, 625A/L and 625B/L. In the fourth course in the reading sequence, students are given opportunities to observe and teach developmental reading classes with groups of students, incorporating diagnostic and remedial teaching techniques. Students work with all reading skills in analyzing and teaching groups at elementary and secondary school levels of competency. This experience includes generating and maintaining records and materials appropriate to the objectives of lessons taught. Awareness of professional organizations is encouraged. The student demonstrates ability to provide leadership in planning, instruction, and evaluation of the reading program in the following areas: (1) readiness, (2) word recognition, (3) comprehension and critical reading, (4) study and locational skills, (5) interest and motivation, (6) appreciation, (7) oral fluency and expression.

625A. LITERACY ASSESSMENT & TEACHING STRATEGIES [A] (3)
(Cross-listed as SED 625A)
Prerequisites: EED/SED 520 or equivalent, EED 633 or SED 625ENG, and teaching experience. Corequisite: EED 625AL. Principles and procedures for the evaluation of reading and writing effectiveness are presented. Each student will develop competencies in assessing literacy behavior on an individual basis as well as in a classroom setting. Students should become adept at determining the effectiveness of various instructional strategies as well as confirming/disconfirming their assessment results.

625AL. LABORATORY IN LITERACY ASSESSMENT AND TEACHING STRATEGIES [A] (1) (Crosslisted as SED 625AL)
Prerequisites: EED/SED 520 or equivalent, EED 633 or SED 625ENG, and teaching experience. Corequisite: EED 625A. This one-unit supervised laboratory experience with children includes parent conferencing and concentrated assessment and instruction in the correction of reading/writing difficulties. Each student will be assigned at least one child experiencing problems processing written language for whom the student will design and implement a corrective program. It is suggested that a student continue with the same child for a second semester in EED 625BL. Case studies will demonstrate awareness of psychological, physiological, educational, cultural, and linguistic factors in the reading/writing process.

625B. LITERACY ASSESSMENT & TEACHING STRATEGIES [B] (3)
(Crosslisted as SED 625B)
Prerequisites: EED/SED 625A and 625AL. Corequisite: EED 625BL. Additional principles and procedures for the evaluation of reading and writing effectiveness are presented. Each student will continue to develop competencies in assessing literacy behavior on an individual basis as well as in a classroom setting. Students should hone their skills of selecting, scoring and interpreting the results of a comprehensive variety of standardized tests. Similarly, additional principles and procedures for the design and selection of materials, methods, and contexts for literacy instruction are presented. Each student will expand the literacy program developed for an individual child based upon new assessment findings. The program will include meaning-centered and skill-based activities appropriate for classroom settings. Students should become adept at determining the effectiveness of various instructional strategies as well as confirming/disconfirming their assessment results.

625BL. LABORATORY IN LITERACY ASSESSMENT AND TEACHING STRATEGIES [B] (1) (Crosslisted as SED 625BL)
Prerequisites: EED/SED 625A and 625AL. Corequisite: EED 625B. This one-unit supervised laboratory experience with children includes parent conferencing and concentrated assessment and instruction in the correction of reading/writing difficulties. Each student will be assigned at least one child experiencing problems processing written language for whom the student will design and implement a corrective program. It is suggested that a student continue with the same child he/she worked with in EED/SED 625AL. Case studies will demonstrate awareness of psychological, physiological, educational, cultural, and linguistic factors in the reading/writing process.

626. LITERACY INSTRUCTION FOR ENGLISH LEARNERS (K-12) (3) (Crosslisted as SED 626)
Prerequisite: EED/SED 520 or equivalent. Designed as an in-service course, emphasis is placed on adjusting reading methodology to the needs of the individual child’s interest, aptitudes and competencies. Major emphases include: (1) survey of theories of the reading process; (2) description of instruments measuring reading; (3) selection, use, and evaluation of materials, methods and approaches in reading instruction, and (4) locating and using professional literature on reading. Field experience involves the application of knowledge and skills of reading instruction to a group of elementary pupils.
LEADERSHIP, PLANNING AND EVALUATION (3) (Crosslisted as SED 628A) (formerly EED 527A)
Prerequisite: EED 520. The focus of the course is on the theoretical and practical considerations involved in individualizing a reading program. Attention is paid to assessment techniques, learning centers, classroom organization and management. Various types of programs are analyzed, and consideration is given to the design of individualized programs in reading that can be implemented in the classroom.

DEVELOPING READING SKILLS THROUGH HIGH INTEREST/LOW READABILITY MATERIALS (1) (Crosslisted as SED 627C) (formerly EED 527C)
Prerequisite: EED 520. The focus of this course is on developing reading skills through the use of high interest literature in the areas of poetry, fiction, drama, high interest thematic units and the media.

READING IN THE CONTENT AREAS (1) (Crosslisted as SED 627D) (formerly EED 527D)
Prerequisite: EED 520. The specific reading skills required in various subject fields will be identified, and methods of teaching these will be explored. Diagnosis and correction of the difficulties peculiar to reading in the several content areas will receive emphasis. Students who have had EED 621 should not select this particular course.

STATE FRAMEWORKS IN READING AND ENGLISH (1) (Crosslisted as SED 627E) (formerly EED 527E)
Prerequisite: EED 520. This course will focus on the Reading and English Language Frameworks. The student will develop competencies in the implementation of the frameworks and the utilization of the state textbook adoption process.

IN-SERVICE EDUCATION IN READING (1) (Crosslisted as SED 627G) (formerly EED 527G)
Prerequisite: EED 520. This course will focus on various aspects of in-service education in the field of reading. It develops competencies of students to design and implement in-service activities in public and private schools.

TEACHING CRITICAL READING SKILLS (1) (Crosslisted as SED 627I) (formerly EED 527I)
Prerequisite: EED 520 or SED 520. This course will focus on the components of teaching critical reading and the implementation of a program of critical reading activities in the classroom.

LANGUAGE AND LITERACY PROGRAMS: LEADERSHIP, PLANNING AND EVALUATION (3) (Crosslisted as SED 628)
Prerequisite: EED/SED 625A/L, 625B/L, or consent of instructor. Principles of designing, organizing, coordinating and evaluating a variety of bilingual/multilingual programs as well as literacy programs (e.g., K-12 integrated language arts programs, corrective reading/writing programs, programs for students at risk) are presented. Students develop competencies in planning, conducting and evaluating staff development in language and literacy or bilingual/multilingual education. They familiarize themselves with the state textbook adoption process, state frameworks, district curriculum guides and selected state, national and international language and literacy projects/programs. Strategies for writing grants are offered, and participation in professional organizations is encouraged. Students demonstrate ability to provide leadership in decision-making for teaching language and literacy or for teaching across the curriculum in bilingual/multilingual programs. Bilingual/multilingual refers to bilingual/bicultural and multilingual/multicultural settings.

ELEMENTARY SCHOOL LANGUAGE ARTS EDUCATION (3) (formerly EED 530)
Prerequisites: Graduate standing and EED 570M, EED 571ST, or equivalent. A course devoted to a study of the nature of the language arts oral communication, practical and creative writing, language, and literature; emphasis upon each component as a field of study but having the common base of language.

SEMINAR IN ELEMENTARY SCHOOL LANGUAGE ARTS EDUCATION (3) (formerly EED 533)
Prerequisites: Graduate standing and EED 610. An advanced curriculum course in language arts for the teacher of elementary school children. Major emphasis of the course will be on the theory and the research relevant to the study of the nature of the language arts and to the current trends and developments in teaching language arts with an interdisciplinary approach.

ELEMENTARY SCHOOL HISTORY-SOCIAL SCIENCE EDUCATION (2)
Prerequisite: Completion of Student Teaching. An in-depth study of the goals and curriculum strands as outlined in the California History-Social Science Framework. Planning, teaching strategies, learning activities, and assessment to provide a comprehensive history-social science instructional program for all students. Attention will also be given to literature that enriches the study of history-social science.

SEMINAR IN ELEMENTARY SCHOOL SOCIAL STUDIES EDUCATION (3) (formerly EED 538)
Prerequisites: Graduate standing and EED 610. Advanced curriculum course in elementary school social studies. Identification of current problems in the field of the social studies, with extensive exploration of the professional literature (interdisciplinary) related to rationale of and potential approaches to resolving such problems. Emphasis of the course will be on theory and research.

ELEMENTARY SCHOOL MATHEMATICS EDUCATION (2)
Prerequisite: Completion of Student Teaching. The major emphasis will be on the materials, methods, and content of a modern program in elementary school mathematics. Attention also will be given to mathematics learning games, mathematics laboratory approaches, differentiation of mathematics instruction, and use of mathematics education literature.

SEMINAR IN ELEMENTARY SCHOOL MATHEMATICS EDUCATION (3) (formerly EED 543)
Prerequisites: Graduate standing and EED 610. A graduate course in education on the research in elementary school mathematics. Course emphasis on analysis of research in education and related fields, on current curricular projects, on trends and issues, on modern learning and pedagogical theory, and on student development of a researchable project.

ENVIRONMENTAL EDUCATION (2)
Prerequisite: Completion of Student Teaching or equivalent. A course for teachers on how to teach Environmental Education (EE) in schools, stressing environmental literacy, issue investigation and evaluation, and citizen action. Major emphasis will be the development of intellectual skills needed for the autonomous investigation of environmental issues, following the Science-Technology-Society (STS) issue instruction model. Other models for teaching environmental education will likewise be presented. A project involving the
application of issue instruction in their respective classrooms will be facilitated.

645. ELEMENTARY SCHOOL SCIENCE EDUCATION (2)
Prerequisite: Completion of Student Teaching. A course on current trends and issues in elementary school science education including practical applications for the practicing teacher. Materials, methods, and content of a modern program in elementary school science will receive emphasis, along with means of integrating other subject areas and applying instructional techniques of topical interests such as authentic assessment and cooperative learning. Attention will be given to differentiated needs of special groups as they relate to science education.

648. SEMINAR IN ELEMENTARY SCHOOL SCIENCE EDUCATION (3) (Formerly EED 548)
Prerequisites: Graduate standing and EED 610. An advanced curriculum course in elementary school science for teachers. Major emphasis of the course will include theory and research related to contemporary aspects of elementary school science. Current trends and issues will be examined in relation to current developments stressing an interdisciplinary approach to science. A research project, using elementary school children to test new ideas in science, will be an integral and ongoing theme of the course.

649. ELEMENTARY SCHOOL INTERDISCIPLINARY ARTS EDUCATION (3)
Prerequisite: Completion of Student Teaching. An interdisciplinary methods course focusing on the meaning, role, and teaching strategies of the arts in the elementary school curriculum. The course 1) provides opportunities for exploration and understanding of dance, music, drama, and visual arts; 2) seeks strategies for integrating two or more of the arts; and 3) applies music, dance, drama, and visual arts as recommended in the Visual and Performing Arts Framework to other subject areas such as language arts, social studies, science, mathematics, and physical education. Participants will learn how to plan, teach, and evaluate an interdisciplinary unit of study in the arts in relationship to specific subject areas. They also will learn how to present their units using technology and other media to develop a multimedia production.

650. OPEN EDUCATION IN THE ELEMENTARY SCHOOL (3)
(Formerly EED 550)
Prerequisite: Graduate standing. A curriculum course in open education for teachers, specialists and administrators in elementary schools. Major focus of the course will be on the theory, current trends and experimentation in the field with emphasis on creative application to specific classroom situations.

651. CURRICULUM ASSESSMENT (3) (Formerly EED 551)
Prerequisite: Graduate standing. The development of educational systems founded on the delineation of performance-based and criterion-referenced objectives and the selection of appropriate teaching strategies and evaluative measures, designed with emphasis on accountability in the elementary school curriculum. The role of diagnosis and prescription, modes of proof, performance contracting, and personal, professional and public accountability. Focus on techniques for compliance with the monitor and review process as mandated by federal and state agencies.

652. CREATIVITY AND THE SCHOOL (3) (Crosslisted as EPC 640) (Formerly EED 552)
This course will focus on identifying, generating, and extending a range of behaviors and conditions that will increase creative productivity in the classroom with an initial examination of the historical events and psychological components that pertain to the process and products of creativity.

660. INDIVIDUALIZING AND PERSONALIZING CURRICULUM (3) (Formerly EED 560)
Prerequisite: Two years teaching experience. The process of individualizing and personalizing the curriculum. Emphasis on openness of relationships, organizational patterns and environment.

661. EARLY CHILDHOOD MATH/SCIENCE CURRICULUM AND METHODS (3) (Formerly EED 561)
Prerequisites: Introductory courses in science and math are highly desirable as background; Math 310 or equivalent experience. This course will be a study of how young children learn science and math concepts based on Piaget's theory of cognitive development. Teaching strategies which maximize activity-discovery learning in the context of cognitive development will be explored. It will also examine applied science and participatory science. Current trends and issues will be examined in relation to current developments stressing an interdisciplinary approach to science. A research project, using elementary school children to test new ideas in science, will be an integral and ongoing theme of the course.

662. LANGUAGE ARTS CURRICULUM IN THE EARLY CHILDHOOD EDUCATION CLASSROOM (3)
(Formerly EED 562)
This course will be a study of language arts curriculum (content and methodology) which maximizes the young child’s (grades K-3) growth in communication skills and language concept and acquisition. Emphasis will be placed on classroom practices which will enhance development and communicative competency. The integration of the various language arts components will be stressed as well as the interrelationships between the various subject areas.

665. FOUNDATIONS OF DEVELOPMENTAL CURRICULUM FOR EARLY CHILDHOOD (3) (Crosslisted as EPC 635) (Formerly EED 565)
Prerequisite: EPC 430 or equivalent, EPC 605, EPC 632 or consent of instructor. To be taken concurrently with experiences in the field, either teaching or field work.

667. CLASSROOM APPLICATIONS OF PIAGET'S THEORY OF COGNITIVE DEVELOPMENT (3) (Crosslisted as EPC 667) (Formerly EED 567)
Prerequisite: EPC 314, 315 or 316. The major purpose of this course is to bridge the gap between Piaget’s research and classroom practice. From a review of Piaget’s observations and interpretation of children’s cognitive development, the course will derive methods for classroom questioning strategies, curriculum development and assessment.

670. RESEARCH APPLICATIONS IN ESL INSTRUCTION (3)
Prerequisites: EED 570 or equivalent; and EED 610 or equivalent or consent of instructor. This course is designed to prepare teachers to analyze, plan and evaluate ESL instruction in a bilingual or multilingual setting at the elementary school level. Emphasis will be given to the analysis and development of materials and methods for teaching and assessment. Students will evaluate and synthesize current research related to issues concerning second language acquisition by elementary school students.
671. SEMINAR IN MULTILINGUAL/MULTICULTURAL EDUCATION (3)
Prerequisite: EED 610 or equivalent or consent of instructor.
A seminar for teachers, supervisors, or administrators interested in bilingual/multilingual education. The course will be concerned with the philosophical, cultural and psychological aspects of bilingualism as well as the history and politics of bilingual/multilingual education, models of bilingual/multilingual programs and effective ways to work with the community. Bilingual/multilingual refers to bilingual/bicultural and multilingual/multicultural settings.

674. BILINGUAL/MULTILINGUAL CURRICULUM (3)
(Crosslisted as SED 674)
Prerequisite: EED 610 or equivalent or consent of instructor. This course covers the history and development of curriculum for bilingual/multilingual programs. Research and its implications for curricular choices as well as the development and adaptation of curriculum will be dealt with. In addition, the effect of assessment on curriculum will be analyzed. Bilingual/multilingual refers to bilingual/bicultural and multilingual/multicultural settings.

675. BILINGUAL/MULTILINGUAL TEACHING STRATEGIES (3)
(Crosslisted as SED 675)
Prerequisite: EED 610 or equivalent or consent of instructor. In this course students evaluate research on bilingual/multilingual teaching methods and strategies. Emphasis is placed upon relating research findings to instructional decision making. The course includes modeling, developing, and validating effective teaching strategies that provide English learners access to the core curriculum. Bilingual/multilingual refers to bilingual/bicultural and multilingual/multicultural settings.

678. ROLE OF THE TEACHER IN MULTICULTURAL EDUCATION (3) (Formerly EED 578)
Prerequisite: Valid teaching credential. Theory, trends and experimentation related to the role of the teacher in multicultural education. Creation, demonstration and evaluation of multicultural study units for children. For inservice teachers and specialists.

679. SEMINAR IN ELEMENTARY EDUCATION CURRICULUM AND INSTRUCTION (3)
Prerequisites: Required C & I courses (may be taken concurrently with the final required C & I course). A capstone course for M.A. candidates in the Curriculum and Instruction option. Students will draw on the breadth developed in the prerequisite subject area courses to apply research methods and develop scholarly skills. Course is intended to serve as a preparation for the M.A. culminating experience, either thesis, project, or comprehensive examination.

680. SMALL GROUP LEARNING IN ELEMENTARY SCHOOL CLASSROOMS (3)
Prerequisite: Completion of one semester of student teaching or equivalent. Advanced course for teachers in the understanding and use of small groups as an instructional methodology. Social reconstructivist, cognitive, complex instruction, and structural approaches to small group learning will be examined. Emphasis will be on enabling educators to make informed decisions and choices about selecting, implementing, and evaluating small group learning approaches which foster effective teaching and learning for all children in a variety of classroom settings.

681. CLASSROOM COMMUNICATION AND MANAGEMENT METHODS (3)
Prerequisite: Admission to the Multiple Subject Credential Program or classroom teacher. This course focuses on the theoretical basis for and the practical implementation of several approaches to classroom management and communication. Emphasis will be on the interrelationship between management and the instructional process (e.g., students’ motivation and characteristics, curriculum considerations, assessment components.)

684. APPLICATION OF RESEARCH IN TEACHING EFFECTIVENESS (3)
(Crosslisted as SED 684, SPED 684) (Formerly EED 584)
Prerequisites: Teaching credential and 3 years teaching experience. Each student will review research of effective teaching strategies and analyze selected propositions as a foundation of effective teaching decisions, including student motivation, rate and degree of learning, transfer of learning, and curriculum decisions that facilitate and extend student learning. Teaching techniques will be field tested using action research procedures and ethnographic classroom study techniques.

685. SUPERVISORY PERSONNEL & STUDENT TEACHING (3)
(Formerly EED 585)
Prerequisites: Teaching credential, teaching experience, and EDUC 600. Analysis of the role of the supervising teacher. Survey of current status, exploration of potential functions, and examination of recommendations of appropriate professional groups. Implications will be drawn from related literature and research.

686. THE ROLES OF TEACHERS, PARAPROFESSIONALS AND VOLUNTEERS IN TODAY’S SCHOOLS (3) (Formerly EED 586)
Focus will be on the constructive interaction of teachers in the regular classroom with paraprofessionals, parent and other community volunteers and cross-age tutors forming an instructional team. The roles of each will be delineated with effective interaction and communication behaviors outlined for successful work with the youngsters in the classroom.

687. PRACTICUM FOR SUPERVISING TEACHERS (3)
(Crosslisted as SED 687, SPED 687) (Formerly EED 587)
Prerequisites: EED 685, EED 684. This course provides opportunities for students to apply their knowledge of supervision theory and teaching effectiveness research to on-site situations. A major part of this practicum will involve practical application of the supervisory techniques in working with novice teachers. In addition, the participants will participate in pedagogical studies to improve their own teaching effectiveness and will learn techniques for improving teaching effectiveness within their own schools.

692. ADVANCED AUDIOVISUAL TECHNIQUES (3)
(Formerly EED 592)
Prerequisite: EED 592. Graduate seminar designed to provide advanced theory and practical experience in planning, production and use of multisensory techniques of communication in education.

695A-Z. SEMINAR IN SELECTED TOPICS (3)
(formerly EED 595A-Z)
Prerequisite: Graduate standing. Special seminars in selected topics in: A. Early Childhood Education; B. Elementary Education.
696. DIRECTED GRADUATE RESEARCH (1-3)  
(Formerly EED 596)  
Prerequisites: EED 610 or EDUC 600, classified graduate status, approval by graduate coordinator. Advanced survey and analysis of research in elementary education leading toward preparation of thesis proposal.

697. DIRECTED COMPREHENSIVE STUDIES (3)  
(Formerly EED 597)  
Prerequisite: Prior completion of all course requirements for the Master’s degree.

698. THESIS OR GRADUATE PROJECT (3-6) (Formerly EED 598)  
Prerequisite: Acceptance by a thesis committee assigned by the Department. A thesis on an advanced topic in the field of education.

699. INDEPENDENT STUDY (1-6) (Formerly EED 599)
SECONDARY EDUCATION

Chair: Bonnie Ericson

COLLEGE OF EDUCATION

Department Office: Education 1208
Phone: (818) 677-2580 Fax: (818) 677-2582
E-mail: sec.edu@csun.edu
Administrative Coordinator: Paula Sweet

FACULTY: James Cunningham, Janice Eckmier, Bonnie Ericson (Chair), Faye Louise Grindstaff, Norman Herr, Linda Huetinck, Alfonso Nava, Clara Park, Kyoko Sato.

EMERITUS FACULTY: David Bidna, Viggo Hansen, Charles Heinler, Luis Hernandez, Barnabas Hughes, Martin Levine, Helen Lodge, George Lorbeer, Raymond McHugh, Joanna McKenzie, Christine Smith, Joseph Schieffer, Merwin Soyster, Ira Winn.

COORDINATOR OF SECONDARY STUDENT TEACHING: Linda Huetinck
Phone: 677-2200/2581
Administrative Coordinator: Susan Hendley

GRADUATE ADVISOR: Kyoko Sato
Phone: 677-2556/2581

DEGREE OFFERED: Master of Arts in Education with a Specialization in Secondary Education.

CREDENTIALS OFFERED: Single Subject Credential; Single Subject Credential with a Crosscultural Language and Academic Development (CLAD) Emphasis; Single Subject Credential with a Bilingual Crosscultural Language and Academic Development (BCLAD) Emphasis; Reading/Language Arts Specialist Credential program.

To become an effective teacher, candidates must meet the California Teacher Performance Assessment (CA-TPA) requirements. This program is designed to prepare teachers for advancement to mentor positions or for employment in English language classrooms. Candidates who successfully complete the program will receive a Single Subject Credential and a CLAD or BCLAD Emphasis.

REQUIREMENTS:

1. Completion of California Secondary Teaching Credential requirements.
2. Submission of a completed department application including:
   a. The names of three references (employer, academic reference, personal reference).
   b. An autobiography including statement of plans and objectives for graduate study.
3. Demonstration of computer literacy.
4. Completion of Upper Division Writing requirement.
5. Undergraduate GPA of 3.0 or higher, or completion of GRE requirement.

READING SPECIALIST CREDENTIAL: The Reading/Language Arts Specialist Credential program is for educators who are holders of a Multiple/Single Subject Credential and have successfully completed a minimum of one year of classroom teaching. This program will prepare them to become literacy leaders capable of filling such positions as reading/language art coordinators, consultants, mentor teachers, staff development coordinators, and curriculum directors.

SINGLE SUBJECT INTERNSHIP PROGRAMS: An alternative route to the Single Subject, CLAD, or BCLAD Emphasis Credential designed for secondary school teachers who are employed in middle and high schools. The program provides interns with courses taught at the work site and individualized field experiences under the supervision of university personnel and secondary school classroom teachers.

CERTIFICATE PROGRAM-COMPUTERS IN INSTRUCTION: A 15 unit graduate program focusing on the development, use, and administration of computer-based educational products and technologies. Units could qualify for an additional teaching authorization in computer concepts and applications; units may also apply to an M.A. program.

REQUIREMENTS FOR CREDENTIAL PROGRAMS: See Credential Programs section of this catalog.

MASTER OF ARTS DEGREE IN EDUCATION WITH A SPECIALIZATION IN SECONDARY EDUCATION

The Master of Arts Degree in Education with a Specialization in Secondary Education is designed to prepare the secondary teacher for advancement to mentor teacher, student teacher supervisor, subject matter teaching specialist, or department chairperson. School districts frequently award salary increases to teachers holding master’s degrees, and master’s degrees are usually required for part-time teaching at the community college or university teaching level. Four components comprise the program of studies: (1) core requirements, (2) department requirements, (3) program option courses, and (4) electives. Up to 15 units from credential program courses may apply to some M.A. options.

REQUIREMENTS:

1. Major or equivalent in a teaching field suitable for secondary school.
2. Submission of a completed department application including:
   a. The names of three references (employer, academic reference, personal reference).
   b. An autobiography including statement of plans and objectives for graduate study.
3. Demonstration of computer literacy.
4. Completion of Upper Division Writing requirement.
5. Undergraduate GPA of 3.0 or higher, or completion of GRE requirement.
## CORE REQUIREMENTS (6 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDUC 600</td>
<td>Research in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 610</td>
<td>Current Issues in Education</td>
<td>3</td>
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## DEPARTMENTAL REQUIREMENTS (6 UNITS)

**plus**

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<tr>
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<tr>
<td>SED 690</td>
<td>Seminar in Secondary Education</td>
<td>3</td>
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**or**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>SED 697</td>
<td>Directed Comprehensive Studies</td>
<td>3</td>
</tr>
<tr>
<td>SED 698</td>
<td>Thesis/Graduate Project</td>
<td>3</td>
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</table>

## PROGRAM OPTIONS (9 UNITS)

### SUBJECT SPECIALIST

For middle and high school teachers of English, Mathematics, Science and Social Studies who wish to specialize in the study of their teaching field. Two-year cohort programs in English Education and Mathematics Education are offered and incorporate National Board for Professional Teaching Standards portfolio activities.

### ENGLISH EDUCATION COURSES (SELECT 9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SED 524</td>
<td>Teaching Reading to the Speaker of Non-Standard Dialect</td>
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<tr>
<td>SED 525ESL</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3</td>
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<tr>
<td>SED 530</td>
<td>The Program in Literature for Grades 6-12: Issues</td>
<td>3</td>
</tr>
<tr>
<td>SED 617</td>
<td>Computers in the Secondary</td>
<td>3</td>
</tr>
<tr>
<td>SED 619</td>
<td>Application Software and Educational Website Development</td>
<td>3</td>
</tr>
<tr>
<td>SED 625ENG</td>
<td>Theory and Research in Teaching</td>
<td>3</td>
</tr>
<tr>
<td>SED 626</td>
<td>Literacy Instruction for English</td>
<td>3</td>
</tr>
<tr>
<td>SED 695C</td>
<td>Seminar in Language Arts Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>SED 695E</td>
<td>Seminar in Reading Curriculum</td>
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<tr>
<td>SED 699A-C</td>
<td>Independent Study</td>
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### MATHEMATICS EDUCATION COURSES (SELECT 9 UNITS)

<table>
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<tbody>
<tr>
<td>SED 535</td>
<td>Teaching Contemporary Mathematics</td>
<td>3</td>
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<tr>
<td>SED 618</td>
<td>Computers in the Secondary School Curriculum (Multi-Media)</td>
<td>3</td>
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<tr>
<td>SED 619</td>
<td>Application Software and Educational Website Development</td>
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</tr>
<tr>
<td>SED 625MA</td>
<td>Theory and Research in Teaching Secondary School Mathematics</td>
<td>3</td>
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<tr>
<td>SED 640</td>
<td>Heuristics in Mathematics Education</td>
<td>3</td>
</tr>
<tr>
<td>SED 644</td>
<td>Remedial Mathematics: Diagnosis &amp; Prescriptive Approaches, Grades 7-14</td>
<td>3</td>
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<tr>
<td>SED 646</td>
<td>Computers in Mathematics and Science Teaching</td>
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</tr>
<tr>
<td>SED 695D</td>
<td>Seminar in Mathematics Curriculum</td>
<td>3</td>
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<tr>
<td>SED 699A-C</td>
<td>Independent Study</td>
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### SCIENCE EDUCATION COURSES (SELECT 9 UNITS)

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<tr>
<td>SED 618</td>
<td>Computers in the Secondary School Curriculum (Multi-Media)</td>
<td>3</td>
</tr>
<tr>
<td>SED 619</td>
<td>Application Software and Educational Website Development</td>
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</tr>
<tr>
<td>SED 625SC</td>
<td>Theory and Research in Teaching Secondary School Science</td>
<td>3</td>
</tr>
<tr>
<td>SED 646</td>
<td>Computers in Mathematics and Science Teaching</td>
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</tr>
<tr>
<td>SED 695B</td>
<td>Seminar in Science Curriculum</td>
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<tr>
<td>SED 699A-C</td>
<td>Independent Study</td>
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### SOCIAL STUDIES EDUCATION COURSES (SELECT 9 UNITS)

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<tr>
<td>SED 618</td>
<td>Computers in the Secondary School Curriculum (Multi-Media)</td>
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<tr>
<td>SED 619</td>
<td>Application Software and Educational Website Development</td>
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<tr>
<td>SED 625SS</td>
<td>Theory and Research in Teaching Secondary School Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>SED 686</td>
<td>Motivational Strategies in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>SED 695A</td>
<td>Seminar in Social Studies Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>SED 699A-C</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

### CURRICULUM AND INSTRUCTION

For teachers who wish to study curriculum and instruction from the perspective of the total secondary school:

#### CURRICULUM AND INSTRUCTION COURSES (SELECT 9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SED 514</td>
<td>Computers in the Instructional Program</td>
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<tr>
<td>SED 520</td>
<td>Literacy in Multiethnic Secondary Schools</td>
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</tr>
<tr>
<td>SED 525</td>
<td>Methods of Teaching Series</td>
<td>3</td>
</tr>
<tr>
<td>SED 520</td>
<td>Literacy in Multiethnic Secondary Schools</td>
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<tr>
<td>SED 618</td>
<td>Microcomputers in the Secondary School Curriculum</td>
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<tr>
<td>SED 619</td>
<td>Application and Utility Software in the Secondary School Curriculum</td>
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<tr>
<td>SED 674</td>
<td>Bilingual/Multilingual Curriculum</td>
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<tr>
<td>SED 686</td>
<td>Motivational Strategies in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>SED 695A-I</td>
<td>Seminar in Selected Studies</td>
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<tr>
<td>SED 699A-C</td>
<td>Independent Study</td>
<td>1-3</td>
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### READING IMPROVEMENT (PREREQUISITE SED 520)

For teachers who wish to become reading specialists:

#### READING IMPROVEMENT COURSES (SELECT 9 UNITS)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>SED 617</td>
<td>Computers in the Secondary Reading/Language Arts Curriculum</td>
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<tr>
<td>SED 620</td>
<td>Methods, Materials and Approaches in the Teaching of Reading</td>
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<tr>
<td>SED 621</td>
<td>Foundations of Reading Instruction</td>
<td>3</td>
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<tr>
<td>SED 625A</td>
<td>Literacy Assessment and Teaching Strategies [A]</td>
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<tr>
<td>SED 625B</td>
<td>Literacy Assessment and Teaching Strategies [B]</td>
<td>3</td>
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<tr>
<td>SED 625BL</td>
<td>Laboratory in Literacy Assessment and Teaching Strategies [B]</td>
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<tr>
<td>SED 626</td>
<td>Literacy Instruction for English Learners K-12</td>
<td>3</td>
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</tbody>
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### CROSS CULTURAL LANGUAGE & ACADEMIC DEVELOPMENT

For teachers seeking preparation in Crosscultural Language and Academic Development (CLAD):

#### CLAD COURSES (SELECT 9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SED 511</td>
<td>Fundamentals of Secondary Education in Multiethnic Secondary Schools</td>
<td>3</td>
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<tr>
<td>SED 525ESL</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3</td>
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<tr>
<td>SED 625ESL</td>
<td>Theory and Research in Teaching Multilingual Classrooms</td>
<td>3</td>
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<tr>
<td>SED 626</td>
<td>Literacy Instruction for English Learners K-12</td>
<td>3</td>
</tr>
<tr>
<td>SED 674</td>
<td>Bilingual/Multilingual Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>SED 675</td>
<td>Bilingual/Multilingual Teaching Strategies</td>
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</tr>
<tr>
<td>SED 699A-C</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>EED 670</td>
<td>Research Applications in ESL Instruction</td>
<td>3</td>
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</tbody>
</table>
COMPUTERS AND EDUCATIONAL TECHNOLOGY
For teachers in all academic areas who wish to develop expertise with instructional uses of the computer:

COMPUTERS AND EDUCATIONAL TECHNOLOGY COURSES (SELECT 9 UNITS)
SED 514 Computers in the Instructional Program....3
SED 617 Computers in the Secondary Reading/Language Arts Curriculum....3
SED 618 Computers in the Secondary School Curriculum (Multimedia).............3
SED 619 Application Software and Educational Website Development................3
SED 646 Computers in Mathematics and Science Teaching...............................3
SED 671 Designing Computer-Based Instructional materials...............................3
SED 693 Field Studies in Secondary Education..............3
SED 695G Seminar in Instructional Technology .............3
SED 699A-C Independent Study........................................3

ELECTIVES (SELECT 9 UNITS)
Nine units from the area of teaching concentration, related fields, topics related to teaching to be selected in consultation with the graduate advisor. In some cases, the following courses from the credential program may be used as electives:
SED 511 Fundamentals of Secondary Education in Multiethnic Secondary Schools ........3
SED 514 Computers in the Instructional Program....3
SED 520 Literacy in Multiethnic Secondary Schools...3
SED 525 Methods of Teaching Series.......................3

TOTAL UNITS REQUIRED FOR THE M.A. PROGRAM: 30

REQUIREMENTS FOR THE CERTIFICATE PROGRAM: COMPUTERS IN INSTRUCTION:
1. Prerequisite: Teaching credential
2. Requirements: 15 semester units
   a. Maintain a 3.0 GPA for all course work.
   b. Complete the program in at most 3 years.
   c. No more than 3 units of the required 15 units may be transfer units.
3. Program:

REQUIRED COURSES (6 UNITS)
SED 514 Computers in the Instructional Program....3
SED 618 Computers in the Secondary School Curriculum (Multimedia).............3

PROGRAM COURSES (9 UNITS)
SED 617 Computers in the Secondary Reading/Language Arts Curriculum....3
SED 619 Application Software and Educational Website Development................3
SED 646 Computers in Mathematics and Science Teaching...............................3
SED 671 Designing Computer-Based Instructional Materials...............................3
SED 693 Field Studies in Secondary Education..............3
SED 695 Seminar in Educational Technology .............3
SED 699 Independent Study........................................3
EED 602 Applying Technology to Curricular Goals...2

SECONDARY EDUCATION 253

COURSE LIST
UPPER DIVISION
496A-Z. EXPERIMENTAL COURSES (3)
Selected topics in Secondary Education with course content to be determined.

497EE A-B. FIELDWORK TUTORIALS (1-2)
A fieldwork course designed to give experiential education to CSUN students who volunteer for community tutorial work with youngsters to improve their basic academic competencies and study skills. Whenever possible emphasis is placed on locating students in sites where disadvantaged young people are most in need of tutoring, including probation camps, foster homes, rehabilitation centers, public schools, and continuation schools. Open to all majors in good academic standing. Permission of instructor required.

511. FUNDAMENTALS OF SECONDARY EDUCATION IN MULTIETHNIC SECONDARY SCHOOLS (3)
This course provides a general framework of secondary education and curriculum, and gives an introduction to bilingual and multicultural education. Includes topics in instructional planning, classroom management, organizational models and instructional strategies of bilingual education, and first and second language acquisition theories including student assessment. A minimum of 20 hours of participation is required in ELD/SDAIE, bilingual, and regular classrooms of public secondary schools during daytime school hours. Required for Regular, CLAD, and BCLAD single subject credential.

514. COMPUTERS IN THE INSTRUCTIONAL PROGRAM (3)
Introduction to the instructional uses of the Internet, local networks, telecommunications, text processing, graphics, desktop publishing, educational software, electronic reference tools, teacher support tools, databases, spreadsheets, and other software applications and related media. Use of such applications to access and evaluate information, analyze and solve problems, and communicate with other professionals. Strategies and skills to enable teachers to prepare their students to be life-long learners in an information-based society. Meets technology education requirement for the Preliminary Credential.

516A. SEMINAR IN TEACHING THE BILINGUAL/BICULTURAL STUDENT: MEXICAN-AMERICAN (3)
A seminar for single subject credential candidates who desire additional preparation in teaching the Mexican-American student at the secondary level. Also open to classroom teachers, administrators, and supervisors. The course is designed to develop effective instructional strategies which will recognize the distinctive cultural, social, historical, linguistic, and aesthetic influences on the learning styles of this ethnic group.

520. LITERACY IN MULTIETHNIC SECONDARY SCHOOLS (3)
A lecture-discussion laboratory course designed to explore methods and issues concerning the teaching of reading, writing, and studying to both first and second language learners in the secondary schools. The course will address background theory; classroom planning and procedures; the assessment of student needs; the use and development of materials; and the evaluation of pupil achievement and learning. Twenty hours of observation are required in public middle or senior high school classrooms with diverse student populations during daytime school hours. Required for Single Subject Regular, CLAD, and BCLAD credentials.
524. TEACHING READING TO THE SPEAKER OF NON-STANDARD DIALECT (3) Crosslisted as EED 524

Prerequisite: SED 520. Exploration of methods and problems peculiar to the teaching of reading to culturally different children. Emphasis in three areas: (1) general planning and procedures to solve reading problems, (2) laboratory practice in the application of reading materials, and (3) evaluation of techniques.

525 SERIES:

All courses in this series address objectives, methods, curriculum, assessment, and issues involved in teaching various subjects in the secondary schools. Restricted to candidates officially admitted to the credential program.

525. METHODS OF TEACHING SINGLE SUBJECTS

IN THE SECONDARY SCHOOL (3)

See SED 525 Series. A generic course for those students for whom a specialized methods course is not available. Restricted to candidates officially admitted to the credential program.

525A. METHODS OF TEACHING ART (3)

See SED 525 Series. Study and development of instructional guidance in art. Restricted to candidates officially admitted to the credential program.

525B. METHODS OF TEACHING BUSINESS-ECONOMIC SUBJECTS (3)

See SED 525 Series. Instruction in teaching courses in accounting, computers (introductory), economics, general business, and keyboarding. Restricted to candidates officially admitted to the credential program.

525C. METHODS OF TEACHING CHEMISTRY (3)

See SED 525 Series. A methods course addressing strategies for teaching literature, composition, and language. The integrated approach for literature, composition, and language instruction is based on the California Model Curriculum Standards and the English/Language Arts Framework. Required of all students enrolled in the English waiver credential program and for those students with Speech or Drama majors who are Ryan credential candidates. Restricted to candidates officially admitted to the credential program or already possessing a teaching credential.

525D. METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3)

Prerequisites: English 301, 302 or 402, or an equivalent course in linguistics. A methods course addressing programs, objectives, methods, materials, and issues for providing bilingual and English as a second language instruction at the middle and high school levels.

525E. METHODS OF TEACHING FOREIGN LANGUAGE (3)

See SED 525 Series. Restricted to candidates officially admitted to the credential program.

525F. METHODS OF TEACHING HOME ECONOMICS (3)

See SED 525 Series. Restricted to students officially admitted to the credential program.

525G. METHODS OF TEACHING HEALTH SCIENCE (3)

See SED 525 Series. Restricted to candidates officially admitted to the credential program.

525H. METHODS OF TEACHING MATHEMATICS (2)

See SED 525 Series. Prerequisite: Mathematics 150B or consent of instructor. Corequisite: SED 525 MAL. Topics include subject matter selection and classroom instruction in arithmetic, algebra, geometry, trigonometry, discrete mathematics and calculus. Restricted to candidates officially admitted to the credential program.

525I. METHODS OF TEACHING MUSIC (3)


525J. METHODS OF TEACHING PHYSICAL EDUCATION (3)

See SED 525 Series. Prerequisite: 15 skills tests, and P.E. 330 (or concurrently). Restricted to candidates officially admitted to the credential program.

525K. METHODS OF TEACHING SCIENCE IN THE SECONDARY SCHOOL (3)

See SED 525 Series. Objectives, methods, materials, and (or concurrently) evaluation of techniques. Laboratory practice in the application of reading materials. Restricted to candidates officially admitted to the credential program.

525L. METHODS OF TEACHING SCIENCE IN THE SECONDARY SCHOOL: LAB (1)

See SED 525 Series. Corequisite: Mathematics 150B or consent of instructor. Corequisite: SED 525MA. Restricted to candidates officially admitted to the credential program.

525M. METHODS OF TEACHING SOCIAL STUDIES (3)

See SED 525 Series. Objectives, methods, materials, and problems involved in the social studies curriculum in the secondary schools. Includes audio-visual education, tests, and measurements. Restricted to candidates officially admitted to the credential program.

525N. METHODS OF TEACHING THEATER (3)

See SED 525 Series. Objectives, methods, materials, and problems involved in teaching drama in the secondary schools. Includes audiovisual instruction and tests and measurements. Restricted to candidates officially admitted to the credential program.

530. THE PROGRAM IN LITERATURE FOR GRADES 6-12: ISSUES (3)

Exploration of issues related to the selection, organization, and methods of teaching literature in middle and senior high school classes. Recommended for experienced English teachers, supervisors, department chairs, and curriculum consultants.

535. TEACHING CONTEMPORARY MATHEMATICS (3)

This course is designed specifically to assist middle and high school mathematics teachers and supervisors in implementing a modern school mathematics program. It covers the content standards, as well as strategies for effective mathematics instruction. The course also provides hands-on experience for developing expertise with graphing calculators and computer software.
555A. STUDENT TEACHING AND SEMINAR FOR THE SINGLE SUBJECT CREDENTIAL (6) (FIRST ASSIGNMENT FOR REGULAR, CLAD, OR BCLAD SINGLE SUBJECT CREDENTIAL)
Prerequisite: SED 511, EPC 314, approval of the subject area department of the teaching subject. SED 525 is a prerequisite or corequisite depending on the subject area. See the detailed section on student teaching in the catalog for additional information. The candidate teaches two class periods daily under the direction and guidance of a qualified on-site teacher regularly employed in a middle or high school. A designated member of the university staff supervises the student teacher’s assignment. Each candidate is assigned three class periods: two teaching periods and a planning/observation period. The candidate also meets weekly or bi-weekly in a seminar with the university supervisor. One-half of the student teaching program must be a cross-cultural experience.

555B. STUDENT TEACHING AND SEMINAR FOR THE SINGLE SUBJECT CREDENTIAL (6) (SECOND ASSIGNMENT FOR REGULAR CREDENTIAL)
Prerequisites: SED 555A. See the detailed section on student teaching in the catalog for additional information. The candidate teaches three class periods daily under the direction and guidance of a qualified on-site teacher (or teachers) regularly employed in a middle or high school. A designated member of the university staff supervises the student teacher’s assignment. Each candidate is assigned four class periods: three teaching periods and a planning/observation period. The candidate also meets weekly or bi-weekly in a seminar with the university supervisor. One-half of the student teaching program must be a cross-cultural experience.

555C. STUDENT TEACHING AND SEMINAR FOR THE SINGLE SUBJECT CREDENTIAL (6) (SECOND ASSIGNMENT FOR CLAD OR BCLAD CREDENTIAL)
Prerequisites: SED 555A. See SED 555B above and the detailed section on student teaching in the catalog for additional information.

587ESL. METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE TO ADULTS (3)
Prerequisites: English 301, 302, or 402 or equivalent course in linguistics. A study of the objectives, methods, materials and language arts. Review and analysis of research on the use of multimedia instruction using a variety of hardware and software tools. Development of multimedia projects of secondary school curriculum. Designed for teachers in integrated programs involving social studies and language arts. Emphasis is given to relating the needs of secondary school youth to appropriate course objectives, content, and teaching procedures.

592. AUDIOVISUAL INSTRUCTION METHODS AND TECHNIQUES (3)
Theories and methods of visual instruction; experience in the utilization of audiovisual aids. Instruction in various projection and recording techniques and their application in the school program.

594AI. ACADEMIC INTERNSHIPS IN SECONDARY EDUCATION (3)
A fieldwork course designed to give experiential education to CSUN students who will be placed as teaching assistants in Los Angeles Unified secondary schools. While assisting supervising teachers in the classrooms, CSUN students will receive exposure to various instructional practices, tutorial techniques, and adolescent student behavior. Fulfills early fieldwork requirement for Single Subject Credential. Open to all majors, junior and senior level, with a minimum 2.5 GPA. Initial application through the Cooperative Education Office. Three (3) units of elective credit, (CR/NC). An Academic Internship course.

599A-C. INDEPENDENT STUDY (1-3)

COURSE LIST

600. RESEARCH IN SECONDARY EDUCATION (3)
(Formerly SED 500)
Survey of significant research in secondary education. Individual study of selected problems by research methods. Students are advised to take this course early in their programs.

610. PROBLEMS IN SECONDARY SCHOOL CURRICULUM (3)
(Formerly SED 510)

612. THE CORE CURRICULUM IN MIDDLE AND SENIOR HIGH SCHOOLS (3) (Formerly SED 512)
Designed for teachers in integrated programs involving social studies and language arts. Emphasis is given to relating the needs of secondary school youth to appropriate course objectives, content, and teaching procedures.

615. LEARNING AND TEACHING WITH LOGO (2)
(Formerly SED 515) (Crosslisted as EED 615)
Prerequisite: SED 514 or EED 613 or equivalent. Investigates Logo learning environments through computer programming, analysis of the Logo philosophy and research bases, examination of classroom implementation reports, and consideration of the role of the teacher as co-learner and facilitator of problem solving.

617. MICROCOMPUTERS IN THE SECONDARY READING/LANGUAGE ARTS CURRICULUM (3) (Formerly SED 517)
Prerequisite: SED 514 or consent of instructor. Design, development, and use of computer-based resources for teaching reading, writing, literature, and language. Internet; telecommunications; and presentation, desktop publishing, and other applications are explored in terms of teaching the language arts. Review and analysis of research and best practice in the use of computers in the teaching of reading and language arts.

618. COMPUTERS IN THE SECONDARY SCHOOL CURRICULUM (3) (Formerly SED 518)
Prerequisite: SED 514 or consent of instructor. Design and development of multimedia projects of secondary school instruction using a variety of hardware and software tools. Review and analysis of research on the use of multimedia computer-based technology in secondary school instruction.

619. APPLICATION AND UTILITY SOFTWARE IN THE SECONDARY SCHOOL CURRICULUM (3) (Formerly SED 519)
Prerequisite: SED 514 or consent of instructor. Design and development of instructional materials using multimedia, publishing, presentation, and data analysis software. Development of websites to distribute these and other instructional resources. Analysis of research related to distance education and the design, use, and effectiveness of Internet-based instructional resources for classroom use.
620. METHODS, MATERIALS AND APPROACHES IN THE TEACHING OF READING (3) (Formerly SED 520)
Prerequisites: EED 520, SED 520, or teaching experience. Corequisite: EED 625A. Designed to acquaint the student
with skills in word recognition, comprehension, study skills and rate; provisions for developing interest and
appreciation; classroom materials in teaching reading; recent concepts of reading readiness and the relationship of
linguistic theory to reading instruction; interrelationship of language development and reading.

621. FOUNDATIONS OF READING INSTRUCTION (3)
(Formerly SED 521)
Prerequisites: SED 520. Designed to acquaint the student with skills in word recognition, comprehension, study skills
and rate; provisions for developing interest and appreciation; classroom materials in teaching reading; recent concepts of
reading readiness and the relationship of linguistic theory to reading instruction; interrelationship of language
development and reading.

624. PRACTICUM IN DIAGNOSING AND FACILITATING READING PROGRAMS (K-12) (3) (Formerly SED 524)
(Cross-listed as EED 624)
Prerequisites: SED 620, SED 625A/L and 625B/L. In the fourth course in the reading sequence, students are given
opportunities to observe and teach developmental reading classes with groups of students, incorporating diagnostic
and remedial teaching techniques. Students work with all reading skills in analyzing and teaching groups at
elementary and secondary school levels of competency. This experience includes generating and maintaining
records and materials appropriate to the objectives of lessons taught. Awareness of professional organizations is
encouraged. The student demonstrates ability to provide leadership in planning, instruction, and evaluation of the
reading program in the following areas: (1) readiness, (2) word recognition, (3) comprehension and critical reading,
(4) study and locational skills, (5) interest and motivation, (6) appreciation, (7) oral fluency and expression.

625A. LITERACY ASSESSMENT AND TEACHING STRATEGIES [A] (3) (Crosslisted as EED 625A)
Prerequisites: SED/EED 520 or equivalent, SED 625EN or EED 633, and teaching experience. Corequisite: SED
625AL. Principles and procedures for the evaluation of reading and writing effectiveness are presented. Each
student will develop competencies in assessing literacy behavior on an individual basis as well as in a classroom
setting. Students should become adept at determining the effectiveness of various instructional strategies as well as
confirming/disconfirming their assessment results.

625B. LITERACY ASSESSMENT AND TEACHING STRATEGIES [B] (3) (Crosslisted as EED 625B)
Prerequisites: SED/EED 625A and 625AL. Corequisite: SED 625BL. Additional principles and procedures for the
evaluation of reading and writing effectiveness are presented. Each student will continue to develop
competencies in assessing literacy behavior on an individual basis as well as in a classroom setting. Students should
hone their skills of selecting, scoring and interpreting the results of a comprehensive variety of standardized tests.
Similarly, additional principles and procedures for the design and selection of materials, methods, and contexts for
literacy instruction are presented. Each student will expand the literacy program developed for an individual child
based upon new assessment findings. The program will include meaning-centered and skill-based activities
appropriate for classroom settings. Students should become adept at determining the effectiveness of various
instructional strategies as well as confirming/disconfirming their assessment results.

625BL. LABORATORY IN LITERACY ASSESSMENT AND TEACHING STRATEGIES [B] (1) (Crosslisted as EED 625BL)
Prerequisites: SED/EED 625A and 625AL. Corequisite: SED 625BL. This one-unit supervised laboratory experience
with children includes parent conferencing and concentrated assessment and instruction in the correction of
reading/writing difficulties. Each student will be assigned at least one child experiencing problems processing written
language for whom the student will design and implement a corrective program. It is suggested that a student continue
with the same child for a second semester in SED 625BL. Case studies will demonstrate awareness of psychological,
physiological, educational, cultural, and linguistic factors in the reading/writing process.

625EN. THEORY AND RESEARCH IN THE TEACHING OF SECONDARY SCHOOL ENGLISH (3)
Prerequisites: SED 525EN or consent of instructor. A study of recent developments and current issues in the teaching of
English at the middle and senior high school levels. Consideration will be given to research studies and current
best practice addressing literature, composition, and language curriculum and instructional methods.

625ESL. THEORY AND RESEARCH IN TEACHING ESL IN MULTILINGUAL CLASSROOMS (3)
Prerequisites: SED 525ESL. A seminar in the theory and research in teaching English as a second language in
multilingual or bilingual settings. Emphasis will be placed on the nature of language acquisition, and on teaching strategies,
and on the development of materials designed to facilitate second language learning. Opportunity for concentrated
individual study, curriculum development, and the use of various diagnostic language proficiency tests to both place
and promote ESL students within the curriculum.
625A. THEORY & RESEARCH IN TEACHING SECONDARY SCHOOL MATHEMATICS (3) (Formerly SED 525MA)
Prerequisites: SED 525 MA or consent of instructor. A study of the present status, recent developments and current trends in secondary school mathematics curriculum. The identification of concepts resulting from recent research and their organization for inclusion in the secondary school mathematics program will be considered. Consideration will also be given to research studies dealing with the rationale and structure of important new approaches to mathematics teaching.

625C. THEORY AND RESEARCH IN TEACHING SECONDARY SCHOOL SCIENCE (3) (Formerly SED 525SC)
Prerequisites: SED 525S, a major or minor in one of the sciences. A study of the present status, recent developments and current trends in secondary curriculum. Emphasis will be given to the identification of concepts resulting from recent research and their organization for inclusion in the secondary school science program. Consideration will be given to research studies dealing with the rationale and structure of important new approaches to science teaching.

625S. THEORY AND RESEARCH IN TEACHING SECONDARY SCHOOL SOCIAL STUDIES (3) (Formerly SED 525SS)
Prerequisites: SED 525SS, a major or minor in one of the social sciences. A critical analysis of current teaching of social studies in the secondary school. Emphasis will be on the rationale and structure of the social studies curriculum, approaches to teaching social studies in the secondary school, and research related to instructional problems of the secondary school teacher.

626. LITERACY INSTRUCTION FOR ENGLISH LEARNERS [K-12] (3) (Cross-listed as EED 626)
Prerequisite: SED/EED 520 or equivalent. Major theories of first and second language acquisition and literacy development specific to teaching second language learners are reviewed in this seminar for teachers with monolingual, bilingual, and multilingual classrooms. Various instructional approaches in the development of oral language, reading, and writing are addressed. Research on variables affecting second language learners' reading and writing achievement is explored. An emphasis is given to effective methodologies, teaching strategies, instructional materials, and assessment strategies.

627A. INDIVIDUALIZATION IN READING (1)
(Cross-listed as EED 627A)
Prerequisite: SED 520. The focus of the course is on the theoretical and practical considerations involved in individualizing a reading program. Attention is paid to assessment techniques, learning centers, classroom organization and management. Various types of programs are analyzed and consideration is given to the design of individualized programs in reading that can be implemented in the classroom.

627C. DEVELOPING READING SKILLS THROUGH HIGH INTEREST/LOW READABILITY MATERIALS (1)
(CROSSLISTED AS EED 627C)
Prerequisite: SED 520. The focus of this course is on developing reading skills through the use of high interest literature in the areas of poetry, fiction, drama, high interest thematic units and the media.

627D. READING IN THE CONTENT AREAS (1)
(Cross-listed as EED 627D)
Prerequisite: SED 520. The specific reading skills required in various subject fields will be identified, and methods of teaching these will be explored. Diagnosis and correction of the difficulties peculiar to reading in the several content areas will receive emphasis. Students who have had EED 621 should not select this particular course.

627E. STATE FRAMEWORKS IN READING AND ENGLISH (1)
(Cross-listed as EED 627E)
Prerequisite: SED 520. This course will focus on the Reading and English Language Frameworks. The student will develop competencies in the implementation of the frameworks and the utilization of the state textbook adoption process.

627G. IN-SERVICE EDUCATION IN READING (1)
(Cross-listed as EED 627G)
Prerequisite: SED 520. This course will focus on various aspects of in-service education in the field of reading. It develops competencies of students to design and implement in-service activities in public and private schools.

627I. TEACHING CRITICAL READING SKILLS (1)
(Cross-listed as EED 627I)
Prerequisite: SED 520 or EED 520. This course will focus on the components of teaching critical reading and the implementation of a program of critical reading activities in the classroom.

628. LANGUAGE & LITERACY PROGRAMS: LEADERSHIP, PLANNING & EVALUATION (3) (Cross-listed as EED 628)
Prerequisite: SED/EED 625A/AL, 625B/BL, or consent of instructor. Principles of designing, organizing, coordinating and evaluating a variety of bilingual/multilingual programs as well as literacy programs (e.g., K-12 integrated language arts programs, corrective reading/writing programs, programs for students at risk) are presented. Students develop competencies in planning, conducting and evaluating staff development in language and literacy or bilingual/multilingual education. They familiarize themselves with the state textbook adoption process, state frameworks, district curriculum guides and selected state, national and international language and literacy projects/programs. Strategies for writing grants are offered, and participation in professional organizations is encouraged. Students demonstrate ability to provide leadership in decision making for teaching language and literacy or for teaching across the curriculum in bilingual/multilingual programs. Bilingual/multilingual refers to bilingual/bicultural and multilingual/multicultural settings.

631. MEDIA IN ENGLISH EDUCATION (3)
(Formerly SED 531)
A graduate seminar for in-depth examination and evaluation of the use of media in English Education. Recommended for experienced English teachers, supervisors, and consultants.

640. HEURISTICS IN MATHEMATICS EDUCATION (3)
(Formerly SED 540)
Prerequisite: A major in Mathematics. Heuristics is the study of the methods of problem-solving. Sometimes called “the rules of discovery,” it is investigated and applied to arithmetic, algebra and geometry. Students are provided with the opportunity to apply the techniques in typical secondary classroom situations.

644. REMEDIAL MATHEMATICS: DIAGNOSIS & PRESCRIPTIVE APPROACHES (Formerly SED 544)
Prerequisite: Teaching Credential and one year of teaching experience. The diagnosis and remediation of learning problems in arithmetic, algebra and geometry are the focus
of this course for teachers of grades 6 to 12, resource personnel and specialists. The participants will discuss these problems together with developmental learning patterns, diagnostic instruments, and taxonomies of errors. Application of theory in participants’ classrooms is a major part of the course. (Course restricted to persons presently teaching or on sabbatical.)

646. COMPUTERS IN MATHEMATICS AND SCIENCE TEACHING (3) (Formerly SED 546)
Prerequisite: SED 514 or consent of instructor. Design, development, and use of computer-based curricular resources for the teaching of science and mathematics. Topics include Internet resources, simulated experiments, computer-assisted instruction, mathematics tools, graphing calculators, probeware, videomicroscopy, scientific and mathematical editors, games, scientific databases, programming, robotics, and more. Review and analysis of research on the use of technology in science and mathematics education.

671. DESIGNING COMPUTER-BASED INSTRUCTIONAL MATERIALS (3) (Formerly SED 571)
Prerequisite: SED 514 or consent of instructor. Development of instructional materials using high-level authoring systems as a programming environment. Investigations on research findings in human perception, communication, learning theory, and software development.

674. BILINGUAL/MULTILINGUAL CURRICULUM (3) (Formerly SED 574) (Crosslisted as EED 674)
Prerequisite: EDUC 600 or equivalent or permission of the instructor. This course covers the history and development of curriculum for bilingual and multilingual programs. Research and its implications for curricular choices as well as the development and adaptation of curriculum will be addressed. In addition, the effects of assessment on curriculum will be analyzed.

675. BILINGUAL/MULTILINGUAL TEACHING STRATEGIES (3) (Formerly SED 575) (Crosslisted as EED 675)
Prerequisite: SED 514 or consent of instructor. In this course students evaluate research on bilingual-bicultural and multilingual-multicultural teaching methods and strategies. Emphasis is placed upon relating research findings to instructional decision making. The course includes modeling, developing, and validating effective teaching strategies that provide English learners access to the core curriculum.

684. APPLICATION OF RESEARCH IN TEACHING EFFECTIVENESS (3) (Formerly SED 584) (Crosslisted as EED 684, SPED 684)
Prerequisites: Teaching credential and three years teaching experience. Each student will review research of effective teaching strategies and analyze selected propositions as a foundation of effective teaching decisions, including student motivation, rate and degree of learning, transfer of learning, and curriculum decisions that facilitate and extend student learning. Teaching techniques will be field tested using action research procedures and ethnographic classroom study techniques.

685. SUPERVISORY PERSONNEL & STUDENT TEACHING (3) (Formerly SED 585)
Prerequisites: Teaching Credential and at least one year of teaching experience. Analysis of the role of the supervising teacher. Survey of current status, exploration of potential functions, and examination of recommendations of appropriate professional groups. Implications will be drawn from related literature and research.

686. MOTIVATIONAL STRATEGIES IN THE CLASSROOM (3) (Formerly SED 586)
A study of the principles, problems and techniques of student motivation in the classroom. Research on the physical, psychological and social aspects of the classroom environment will be treated. The contributions of modern technology and the importance of the teacher’s personality will be explored. Collections of materials and techniques useful to teachers in promoting motivation will be coupled with selected field trips to appropriate instructional resource centers, museums and educational film production sites.

687. PRACTICUM FOR SUPERVISING TEACHERS (3) (Formerly SED 587) (Crosslisted as EED 687, SPED 687)
Prerequisites: SED 684, SED 685. This course provides opportunities for students to apply their knowledge of supervision theory and teaching effectiveness research to on-site situations. A major part of this practicum will involve practical application of the supervisory techniques in working with novice teachers. In addition, the participants will engage in pedagogical studies to improve their own teaching effectiveness and will learn techniques for improving teaching effectiveness within their own schools.

690. SEMINAR IN SECONDARY EDUCATION (3) (Formerly SED 590)
Identification of persistent problems in secondary education and survey of the literature relating to these. Emphasis is given to study of education problems, to acquaintance with reliable sources of educational research, and to techniques of cooperative thinking.

693. FIELD STUDIES IN SECONDARY EDUCATION (3) (Formerly SED 593)
Prerequisite: Admission to a graduate program in SED at CSUN. A training course in observation of field study techniques. Students will prepare a study of current educational practice as found in secondary schools. Meetings to be arranged between instructors and students.

695 A-K. SEMINARS IN SELECTED STUDIES (3) (Formerly SED 595A-K)
Special seminars in selected topics in: A. Social Studies Curriculum; B. Science Curriculum; C. Language Arts Curriculum; D. Math Curriculum; E. Reading Curriculum; F. Secondary Education; G. Educational Technology; H. Practicum for Bilingual Teaching (Spanish); I. Seminar in Bilingual Education (Spanish); J. Curriculum for Bilingual Students (Spanish).

696. DIRECTED GRADUATE RESEARCH (3) (Formerly SED 596)
Prerequisite: Acceptance by the Department of a thesis or project on an advanced topic in the field of education.

697. DIRECTED COMPREHENSIVE STUDIES (3) (Formerly SED 597)
Restricted to and required of M.A. candidates in the semester in which they take the comprehensive examination for the degree.

698. THESIS OR GRADUATE PROJECT (3) (Formerly SED 598)
Prerequisite: Acceptance by a thesis committee assigned by the Department. A thesis or project on an advanced topic in the field of education.

699A-C. INDEPENDENT STUDY (1-3). (Formerly SED 599)
SPECIAL EDUCATION
Chair: Claire Cavallaro

COLLEGE OF EDUCATION
Department Office: Education 1204
Phone: (818) 677-2596
E-mail: sped@csun.edu
Administrative Coordinator: Marcia Rea

FACULTY: Tamarah Ashton, Nancy Burstein, Claire Cavallaro
(Chair), Deborah Chen, Lynne Cook, June Downing, Rosa Gonzalez, K. Sarah Hall, Charles Katz, Virginia Kennedy, Joyce Linden, Michele Haney, Beth Lasky, Richard Mesaros, Ellen Schneiderman, Sue Sears, Michael Spagna, Wendy Weichel

FACULTY EMERITI: Kenneth Armstrong, Ray Barsch, Ann Bisno, Ruth Forer, Joyce Hagen, Phillip Hansen, Helen Kennedy, Barbara Kulik, Grace Lee, June Newkirk

GRADUATE COORDINATOR: Ellen Schneiderman

TEACHER EDUCATION COORDINATOR: Michael Spagna

UNDERGRADUATE ADVISERS: All department faculty

CREDENTIAL AND GRADUATE ADVISERS: Faculty will advise students in the

DEGREES OFFERED:

M.A. Degree in Special Education with specializations in
Deaf and Hard of Hearing, Early Childhood, Educational Therapy, Gifted, Mild/Moderate Disabilities, Moderate/Severe Disabilities, and Serious Emotional Disturbance.

M.S. Degree in Genetic Counseling (See Genetic Counseling)

TEACHING CREDENTIALS AND CERTIFICATES OFFERED:

Preliminary Specialist Credential (Level I) and Professional Specialist Credential (Level II) in Deaf/Hard of Hearing, Mild/Moderate Disabilities, Moderate/Severe Disabilities, and Early Childhood Special Education. A certificate is offered for Resource Specialist (RSP) as well as an authorization in Serious Emotional Disturbance (SED).

Special Education Internship Certificates with specializations in Deaf and Hard of Hearing, Mild/Moderate and Moderate/Severe Disabilities (offered in collaboration with the Los Angeles Unified School District, Antelope Valley/Santa Clarita SELPA) and other districts are available.

See credentials section of catalog.


DEPARTMENT PROGRAMS: The M.A. Degree Program builds upon the competencies developed in the Special Education Credential Program, preparing students for leadership positions in the field, and for entry into doctoral programs. Specialized options provide academic and professional preparation in educational therapy.

The M.S. Degree in Genetic Counseling (see Genetic Counseling) is offered in conjunction with the Department of Biology and the Department of Educational Psychology and Counseling.

CREDENTIAL PROGRAMS: The PRELIMINARY SPECIALIST TEACHING CREDENTIAL (LEVEL I) with specializations in Deaf/Hard of Hearing, Mild/Moderate Disabilities, and Moderate/Severe Disabilities is designed for persons who desire to work with students with special needs in a school setting. This program is open to qualified students who have completed a B.A. Degree, and does not require completion of a Multiple or Single Subject Credential.

The EARLY CHILDHOOD SPECIAL EDUCATION CREDENTIAL is designed for candidates interested in working with infants through pre-kindergarten age children who have special needs and their families. It is open to qualified students who have completed a B.A. Degree in Child Development or a related field.

The SPECIAL EDUCATION INTERNSHIP PROGRAM is open to qualified students who are employed as teachers of students with mild/moderate (LH) or moderate/severe (SH) disabilities in the Los Angeles Unified School District or Antelope Valley/Santa Clarita SELPA. The PROFESSIONAL LEVEL II EDUCATION SPECIALIST CREDENTIAL PROGRAM with specializations in Early Childhood, Deaf/Hard of Hearing, Mild/Moderate Disabilities, and Moderate/Severe Disabilities is offered to teachers who have completed the Level I credential.

CERTIFICATE PROGRAMS: The RESOURCE SPECIALIST CERTIFICATE (RSP) program is for experienced educators who have a Special Education Specialist Credential, and wish to qualify for positions as Resource Specialists. This entails working with students with special needs who receive part of their education in general education, and collaborating with general education teachers in serving these students. An authorization in SERIOUS EMOTIONAL DISTURBANCES (SED) can be added to the Special Education Specialist Credential in Learning Handicaps or the Preliminary Specialist Credential in Mild/Moderate Disabilities.

The EDUCATIONAL THERAPY CERTIFICATE is designed for post M.A. students who wish to further their expertise and professional skills related to serving pupils with exceptional needs on an individual basis and/or in a clinical setting.

The CERTIFICATE IN EARLY INTERVENTION FOR CHILDREN WITH SPECIAL NEEDS/BIRTH TO 8 YEARS. This certificate is designed for Post BA students who wish to provide services to infants, toddlers and young children and their families who have or are at risk for disabilities. It provides transdisciplinary training to persons who possess Bachelor’s degrees in one of the disciplines involved in early intervention (Child Development, Special Education, Communicative Disorders, Nursing, Early Childhood Education, Psychology, Educational Psychology, Physical Therapy, Adaptive Physical Education, Occupational Therapy, Social Work).

The SUPERVISION OF TEACHERS CERTIFICATE program provides instruction and training for teachers that will enable them to supervise the professional growth of student teachers and beginning teachers, and to serve in leadership roles to assist colleagues in developing and improving teaching effectiveness. (See Department of Elementary Education).

ACADEMIC ADVICE: Faculty advisers are available by appointment. Drop-in advisement is available during the first two weeks of each semester. Faculty advisers are
prepared to assist and advise the student in the selection of courses appropriate to fulfillment of credential and degree requirements.

AWARDS: The Department of Special Education is the recipient of the American Association of College of Teacher Education Military Order of the Purple Heart Award. This award was presented in Spring 1987 in recognition of the Department’s outstanding contribution to the education of children with disabilities. The funds from this national award provide for three student awards each year. One award is presented to a general education student (elementary or secondary) who has demonstrated a commitment to students with special needs. This award provides further Special Education training. The other two awards are for a general elementary teacher and a general secondary teacher nominated by special educators or parents for outstanding contributions to the education of students with disabilities. Students may submit applications or be nominated for the awards. Nominations and applications should be addressed to Dr. Claire Cavallaro, Department Chair.

THE MASTER OF ARTS DEGREE IN SPECIAL EDUCATION

The Master of Arts Degree in Special Education is designed to provide candidates with advanced professional preparation in Special Education for (1) assuming differentiated careers in school, clinic, community, and institutional settings and (2) continuing into a doctoral preparation in Special Education for (1) assuming differentiated careers in school, clinic, community, and institutional settings and (2) continuing into a doctoral differentiated careers in school, clinic, community, and institutional settings and (2) continuing into a doctoral differentiated careers in school, clinic, community, and institutional settings and (2) continuing into a doctoral differentiated careers in school, clinic, community, and institutional settings and (2) continuing into a doctoral

REQUIREMENTS FOR ADMISSION TO THE PROGRAM

(Classified Status):

A. Agreement by a faculty member who will serve as a graduate adviser.

B. An undergraduate grade point average of 3.0 or higher

C. Successful completion of the Upper Division Writing Proficiency Examination with a score of 10 or better.

D. For specialization in Deaf/Hard of Hearing, students must pass the American Sign Language Proficiency Interview (ASLPI).

NOTE:

1. No more than 12 units of credit may be applied to a M.A. program until classified status is attained.

2. A maximum of 30 units required for the M.A. Degree.

A minimum of 30 units including a comprehensive examination, thesis, or a graduate project are required for completion of the M.A. degree.

ELECTIVES (3 UNITS)

Select 3 units from the following:

INFANT/TODDLER SPECIALIZATION ELECTIVES:

SPED 634 Transdisciplinary Team Functioning in Early Intervention

and

SPED 634P Transdisciplinary Team Functioning Practicum

EPC 630 Education of Infant Parent Dyads with Special Needs (Crosslisted as SPED 530)

PRESCHOOL SPECIALIZATION ELECTIVES:

SPED 504 Theoretical and Empirical Bases of Special Education

and

SPED 611 Consultation Processes in Education

and

SPED 611/L Consultation and Communication Laboratory in Education

SPED 623 Research and Issues in Mainstreaming
### 2000-2002

#### SPECIAL EDUCATION 261

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EPC 632</td>
<td>Issues, Theories, and Current Practices in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EPC 633</td>
<td>Developmental and Learning Problems in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EPC 634</td>
<td>Language and Concept Development in the Early School Years</td>
<td>3</td>
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**SPECIALIZATION: EARLY CHILDHOOD/DEAF-HARD OF HEARING (18-21 UNITS)**

#### PREREQUISITE COURSES (9 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPED 531</td>
<td>Atypical Development of Infants &amp; Young Children: A Transdisciplinary Approach</td>
<td>3</td>
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<tr>
<td>SPED 532</td>
<td>Curriculum and Methods for Working with Very Young Children with Disabilities</td>
<td>3</td>
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<tr>
<td>EPC 638</td>
<td>Infant Development, Care and Education: Issues, Programs &amp; Directions</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>FES 635</td>
<td>Theories of Infant Development</td>
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#### CONTENT CONCENTRATION (12 UNITS)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPED 535</td>
<td>Working with Families of Exceptional Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>SPED 536</td>
<td>Methods for Young Children with Multiple Disabilities: Motor &amp; Adaptive Skills</td>
<td>3</td>
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<tr>
<td>SPED 537</td>
<td>Methods for Young Children with Multiple Disabilities: Sensory Impairments</td>
<td>3</td>
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<tr>
<td>SPED 695D</td>
<td>Methods for Working with Very Young Deaf-Hard of Hearing Children</td>
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#### PRACTICUM (6-9 UNITS)

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>SPED 682EC/DHH</td>
<td>Adv. Clinical Practicum in EC/DHH (3 units in infancy/3 units in preschool)</td>
<td>6</td>
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<tr>
<td>or</td>
<td>SPED 682EC/DHH</td>
<td>Adv. Clinical Practicum in EC/DHH (3 units in infancy)</td>
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<tr>
<td>and</td>
<td>SPED 580D</td>
<td>Specialist Fieldwork with Deaf-Hard of Hearing Pupils (preschool level)</td>
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#### SPECIALIZATIONS: EDUCATIONAL THERAPY (18 UNITS)

#### REQUIRED COURSES (12-15 UNITS)

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPED 402A</td>
<td>Behavior Assessment and Positive Behavioral Support</td>
<td>3</td>
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<tr>
<td>or</td>
<td>SPED 610</td>
<td>Program Planning in Special Education</td>
</tr>
<tr>
<td>and</td>
<td>SPED 504MM</td>
<td>Theoretical and Empirical Bases of Education for Learners with Mild/Moderate Disabilities</td>
</tr>
<tr>
<td>and</td>
<td>SPED 505MM</td>
<td>Curriculum and Instruction for Learners with Mild/Moderate Disabilities</td>
</tr>
<tr>
<td>and</td>
<td>SPED 621</td>
<td>Affective Education for Learners with Exceptional Needs</td>
</tr>
<tr>
<td>and</td>
<td>SPED 624</td>
<td>Special Education &amp; the Bilingual Pupil</td>
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<tr>
<td>and</td>
<td>SPED 671</td>
<td>Advanced Study of Reading Problems</td>
</tr>
<tr>
<td>and</td>
<td>SPED 677/L</td>
<td>Clinical Procedures and Testing</td>
</tr>
<tr>
<td>and</td>
<td>SPED 682MM</td>
<td>Advanced Clinical Practicum: Mild/Moderate</td>
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#### ELECTIVES (3-6 UNITS)

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<tr>
<td>SPED 621</td>
<td>Affective Education for Learners with Exceptional Needs</td>
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<tr>
<td>SPED 652</td>
<td>Educating Children with Moderate and Serious Emotional Disturbance</td>
<td>3</td>
</tr>
<tr>
<td>SPED 503</td>
<td>Guidance in Special Education: Team Collaboration and Working with Families</td>
<td>3</td>
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<tr>
<td>SPED 624</td>
<td>Special Education and the Bilingual Pupil</td>
<td>3</td>
</tr>
<tr>
<td>SPED 670</td>
<td>Reading Processes</td>
<td>3</td>
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<tr>
<td>SPED 671</td>
<td>Advanced Study of Reading Problems</td>
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### SPECIALIZATIONS: MILD/MODERATE (18 UNITS)

#### REQUIRED COURSES (12-15 UNITS)

<table>
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<tr>
<td>SPED 504MM</td>
<td>Theoretical and Empirical Bases of Education for Learners with Mild/Moderate Disabilities</td>
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<td>or</td>
<td>SPED 610</td>
<td>Program Planning in Special Education</td>
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<td>and</td>
<td>SPED 505MM</td>
<td>Curriculum and Instruction for Learners with Mild/Moderate Disabilities</td>
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<td>Advanced Study of Reading Problems</td>
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<tr>
<td>and</td>
<td>SPED 677/L</td>
<td>Clinical Procedures and Testing</td>
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<tr>
<td>and</td>
<td>SPED 682MM</td>
<td>Advanced Clinical Practicum: Mild/Moderate</td>
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#### ELECTIVES (3-6 UNITS)

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<tr>
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<tbody>
<tr>
<td>SPED 402a</td>
<td>Behavior Assessment and Positive Behavior Support</td>
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<td>and</td>
<td>SPED 503</td>
<td>Guidance in Special Education: Team Collaboration and Working with Families</td>
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<td>and</td>
<td>SPED 402a</td>
<td>Behavior Assessment and Positive Behavior Support</td>
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<tr>
<td>and</td>
<td>SPED 505MS</td>
<td>Curriculum &amp; Instruction for Learners with Moderate/Severe Disabilities</td>
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<td>and</td>
<td>SPED 611/L</td>
<td>Consultation Processes in Education (2+1)</td>
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<td>and</td>
<td>SPED 612/L</td>
<td>Design &amp; Development of Indirect Services in Special Education (2+1)</td>
</tr>
<tr>
<td>and</td>
<td>SPED 641</td>
<td>Augmentative and Alternative Communication</td>
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<tr>
<td>and</td>
<td>SPED 682MS</td>
<td>Advanced Clinical Practicum: Moderate/Severe</td>
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<tr>
<td>and</td>
<td>SPED 682SED</td>
<td>Advanced Clinical Practicum</td>
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### SPECIALIZATION: MODERATE/SEVERE (18 UNITS)

#### REQUIRED COURSES (9-15 UNITS)

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<tbody>
<tr>
<td>SPED 504MS</td>
<td>Theoretical &amp; Empirical Bases of Education for Learners with Mild/Moderate Disabilities</td>
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<tr>
<td>or</td>
<td>SPED 610</td>
<td>Program Planning in Special Education</td>
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<tr>
<td>and</td>
<td>SPED 402a</td>
<td>Behavior Assessment and Positive Behavior Support</td>
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<td>and</td>
<td>SPED 505MS</td>
<td>Curriculum &amp; Instruction for Learners with Moderate/Severe Disabilities</td>
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<td>and</td>
<td>SPED 611/L</td>
<td>Consultation Processes in Education (2+1)</td>
</tr>
<tr>
<td>and</td>
<td>SPED 612/L</td>
<td>Design &amp; Development of Indirect Services in Special Education (2+1)</td>
</tr>
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<td>and</td>
<td>SPED 641</td>
<td>Augmentative and Alternative Communication</td>
</tr>
<tr>
<td>and</td>
<td>SPED 682MS</td>
<td>Advanced Clinical Practicum: Moderate/Severe</td>
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<tr>
<td>and</td>
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#### ELECTIVES (6-9)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPED 503</td>
<td>Guidance in Special Education: Team Collaboration &amp; Working with Families</td>
<td>3</td>
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</table>
CULMINATING EXPERIENCE

SPED 697 Directed Comprehensive Studies .................. 3
or
SPED 698 Thesis or Graduate Project ......................... 3

TOTAL UNITS FOR THE DEGREE: 30

CERTIFICATE PROGRAMS

EDUCATIONAL THERAPY CERTIFICATE

Purpose: To provide post MA students with an opportunity to further their expertise and professional skills related to educational therapy. Completion of the Certificate Program, which includes courses and field experience, will lead to the award of the Certificate of Advanced Study in Educational Therapy.

PREREQUISITES:
1. Completion of a MA program in Education (any department), Psychology, Social Work, or other related fields as approved by the Certificate Program Coordinator.
2. Minimum of two years of experience in the fields of School Psychology, Counseling, Education or alternative experience with approval of the Certificate Program Coordinator, and/or two semesters of fieldwork in programs serving learners with disabilities.

REQUIREMENTS FOR THE CERTIFICATE:
The Certificate requires a minimum of 25 units of coursework and field experience. Credit for a maximum of six units of coursework used for a degree program may be applied to the Certificate.

INTRODUCTION TO EDUCATIONAL THERAPY (6 UNITS)

SPED 402A Behavior Assessment & Positive Behavior Support ............... 3
SPED 673 Principles of Educational Therapy for Exceptional Individuals .... 3

COUNSELING THEORY AND PRACTICE (3-7 UNITS)

PSY 460 Counseling and Interviewing ...................... 4
PSY 660 Seminar in Counseling ...................................... 3
and
PSY 660T Tutorial in Counseling ...................................... 1
or
EPC 655 Seminar in Techniques of Counseling .............. 3

ASSESSMENT AND EVALUATION (3-7 UNITS)

PSY 625A-B Psychological Testing (Individual) .......... 4-4
EPC 663A-B Clinical and Psychometric Assessment Techniques .................. 4-4
SPED 672/L Clinical Procedures, Testing and Lab .... 3

PROFESSIONAL PRACTICE (9 UNITS)

Language and Reading:
CD 462 Seminar in Language Development and Disorders .................. 3
EPC 634 Language and Concept Development in the School Years ............... 3

SPED 670 Reading Processes ......................................... 3
SPED 671 Advanced Study of Reading Problems .......... 3
SPED 675/L Clinical Procedures and Materials .................. 3

EXTENDED PROFESSIONAL ACTIVITIES:

PSY 601 Psychological Service Systems .................. 3
SPED 611/L Consultations Processes in Education (and Lab) .................. 3

PROVIDING FOR SPECIAL CLIENT CHARACTERISTICS:

SPED 504MM Theoretical & Empirical Bases of Education for Learners with Mild/Moderate Disabilities .................. 3
SPED 505MM Curriculum and Instruction for Learners with Mild/Moderate Disabilities .............................. 3
SPED 610 Program Planning in Special Education .......... 3
PSY 625 Problems of the Atypical Child ....................... 3
SPED 652 Educating Children with Moderate and Serious Emotional Disturbance .................. 3
SPED 677/L Instructional Strategies for Adolescents and Young Adults with Mild/Moderate Disabilities ........... 2
SPED 699Z Supervised Independent Study: Instructional Programming in Specific Content Areas .............. 3

CAPSTONE (3 UNITS)

SPED 676/L Clinical Organization and Administration .......... 3

SERIOUS EMOTIONAL DISTURBANCES (SED) AUTHORIZATION

Purpose: To provide knowledge and skills for holders of the Special Education Specialist Credential in the area of Learning Handicaps (LH) to work with students who are identified as severely emotionally disturbed.

PREREQUISITES:
1. Possession of a valid basic teaching credential
2. Special Education Specialist Credential in the area of Learning Handicapped.
3. Grade point average of 3.0 or above in last 60 units of academic work.

REQUIRED COURSES (9 UNITS)

SPED 652 Educating Children with Moderate and Serious Emotional Disturbances ............... 3
SPED 682ED Advanced Clinical Practicum: Severely Emotionally Disturbed .................. 3
SPED 695A Seminar in Selected Studies: Severely Emotionally Disturbed Students ............. 3

ADVANCED CERTIFICATE IN EARLY INTERVENTION

Purpose: To provide interdisciplinary training to persons who possess Bachelor’s degrees in one of the disciplines involved in early intervention (Communicative Disorders, Educational Psychology, Early Childhood Education, Nursing, Occupational Therapy, Physical Therapy, Psychology, Social Work and Special Education) and for individuals who work in early intervention who wish to provide services to infants, toddlers and young children and their families who have or are at risk for disabilities.

PREREQUISITES:
Participants must document coursework or training equivalent to FES 431 Child Growth and Development II and FES 431L Child Growth and Development II Lab; SPED 400 Introduction to Exceptional pupils; SPED 531 Atypical Development of Infants and Toddlers; and CD 462 Language Development and Language Disorders.
REQUIREMENTS FOR THE CERTIFICATE:
The Certificate requires 9 cores units and 6 elective units.

CORE: (9 UNITS)
SPED 535 Working with Families of Exceptional Infants and Toddlers: A Transdisciplinary Approach ................. 3
SPED 680EC Current Trends in Early Childhood Special Education ......................................................... 3
SPED 682EC Advanced Clinical Practicum in Early Childhood Special Education ................................. 3

ELECTIVES: (6 UNITS)
In consultation with their advisor, students may select from a variety of electives related to early intervention.

CERTIFICATE PROGRAM IN SUPERVISION FOR TEACHERS

PROGRAM OBJECTIVES
The program will provide instruction and training for teachers which will enable them to:
1. Supervise the professional growth of student teachers and beginning teachers by utilizing a variety of techniques for objective data collection and implementing clinical supervision phases.
2. Demonstrate in practice principles of teaching effectiveness as found in current research.
3. Serve in leadership roles to assist their colleagues in developing and improving teaching effectiveness.

PREREQUISITES/ COREQUISITES
PREREQUISITES:
1. B.A. or B.S. degree.
2. Valid basic teaching credential.
3. Grade point average of 3.00 in last 60 units of academic work.
4. Two letters of reference from school or university supervisory personnel documenting teaching proficiency.

COREQUISITES:
1. Three or more years of teaching experience.
2. Supervision experience of two or more semester assignments.

COURSE REQUIREMENTS (18 UNITS)
SPED 611 Consultation Processes in Education .................. 2
SPED 611L Consultation and Community Laboratory in Education .......................................................... 1
SPED 684 Application of Research in Teaching Effectiveness ...................................................... 3
SPED 695T Practicum for Supervising Teachers ............... 3
or
SPED 687 Practicum for Supervising Teachers ................ 3
Approved course in Curriculum ...................................... 3
Approved elective course ............................................. 3

PROGRAM REQUIREMENTS
1. Students shall maintain a grade point average of 3.0 for all course work.
2. The time limit for completion of the program is five years.
3. No more than three units of the required 15 units shall be transfer units.
4. Students may be concurrently enrolled in the certificate program and a Master’s degree program. They may only apply a maximum of nine (9) units taken for a certificate as credit towards the Master’s degree. Students are advised that they may not transfer more than 12 units earned before they are classified (fully accepted) in a Master’s program.

COURSE LIST
LOWER DIVISION
296A. EXPLORING CAREERS IN SPECIAL EDUCATION (3) An introduction to special education, with an emphasis on exploring careers in this field. Includes visits to special education programs serving individuals with disabilities at various age and ability levels. Students will reflect on the challenges, opportunities, and rewards of a career in this field.

396A. EARLY FIELD EXPERIENCE (3)
This course is divided into three sections to prepare students for specific credential specializations (ECSE, M/M, M/S). Students spend 6 hours per week in an inclusive special education setting, and observe and work with children in the specialization area, under the direction of the school site collaborating teacher. Seminars, which accompany the field experience, provide opportunities for students to reflect upon observed practices, work together to solve problems, and develop a network of collegial support. Information presented will focus on inclusive education and classroom organization.

396B. SUPERVISED EARLY FIELD EXPERIENCE (3)
Prerequisites: SPED 396A. This course is divided into three sections to prepare students for specific credential specializations (ECSE, M/M, M/S) and is the second in a series of graduated practice in Special Education. Students spend 6 hours per week in an inclusive special education setting and attend a seminar designed to support and accompany the field experience. Information presented focuses on informal assessment and the development of individual program planning.

UPPER DIVISION & CREDENTIAL STUDENTS

400. INTRODUCTION TO SPECIAL EDUCATION (3) Description and history of the field of Special Education; relevant legislation, characteristics of special populations served; related needs and educational services. Includes field experience.

401A. INSTRUCTION IN SPECIAL EDUCATION: ASSESSMENT AND METHODS (3) (Formerly SPED 501A)
Pre- or co-requisite: SPED 400, 508 or 531. This course concentrates on the development and application of generic skills in assessment and instructional strategies for exceptional pupils. During each class session, educational approaches are presented and opportunities are provided for student practice. This course includes fieldwork assignments.

SPED 402A. BEHAVIORAL ASSESSMENT AND POSITIVE BEHAVIOR SUPPORT (3) (Formerly SPED 502A)
Prerequisites: SPED 400, 508 or 531; Pre- or co-requisite: SPED 500A (600). Study of theory, ethics, research and practices of applied behavior analysis with learners who have disabilities in instructional settings. This course specifically emphasizes skill development in applied behavior analysis and includes a field assignment where students conduct and evaluate a behavior change project.

431. ATYPICAL DEVELOPMENT OF INFANTS & TODDLERS: A TRANSDISCIPLINARY APPROACH (3) (Formerly SPED 531)
Prerequisites: EPC 430 or HEC 335 or HEC 431 or equivalent. Pre- or co-requisite: SPED 535. This course provides intensive transdisciplinary study of infant-toddler atypical development and the interrelationships and implications of atypical development in motor, cognitive,
sensory, language/speech and social/emotional areas. It is designed for professionals working in nursing, special education, physical and occupational therapy, speech and language, social work, and child development. Emphasis is placed on research, etiology and clinical studies in the field.

**438CD. STUDENT TEACHING IN LANGUAGE, SPEECH & HEARING AND AUDIOLOGY (6)**

Prerequisite: Approval of the Department of Communicative Disorders. The student will spend two full school days per week in the Public School System under the supervision of a Supervisory Teacher. In addition, all candidates will be supervised by a University Faculty Coordinator from the Department of Communicative Disorders. The student will assume the planning and teaching responsibilities of the Master Teacher on the assigned days.

**438CDA. STUDENT TEACHING IN SEVERE LANGUAGE HANDICAPPED APHASIA (4)**

Prerequisite: Approval of the Department of Communicative Disorders. This course can be taken concurrently with or subsequent to SP ED 438CD. The student will participate, during one semester, in one hundred hours of student teaching in the Public School System in a classroom for severe language handicapped/aphasic pupils. This will be done under the supervision of a Supervisory Teacher and a University Faculty Coordinator from the Department of Communicative Disorders. The student will assume the planning and teaching responsibilities of the Supervisory Teacher during the assigned hours.

**494A-Z. EXPERIMENTAL COURSES (1-3)**

**496A-Z. EXPERIMENTAL COURSES IN SPECIAL EDUCATION (1-3)**

Selected topics in Special Education with course content to be determined.

**499X,Y,Z. INDEPENDENT STUDY (1-3)**

**GRADUATE COURSES**

The following courses are open to graduate students only.

**500A. INSTRUCTION IN SPECIAL EDUCATION: COGNITION & COMMUNICATION (3) (Formerly SPED 600)**

Pre- or Co-requisite: SPED 400 or 508. Methods for evaluating and facilitating cognitive and communication skills of learners with disabilities in instructional settings. Includes applications to gestural and symbolic (oral, written and signed) forms of communication, use of technology, and alternate communication systems. This course includes field work assignments.

**503. GUIDANCE IN SPECIAL EDUCATION: TEAM COLLABORATION & WORKING WITH FAMILIES (3)**

(Formerly SPED 603)

Pre- or Co-requisites: SPED 400 or 508, 500A, 401A, (501A). To help prospective special education teachers, teachers in service, and other school personnel to understand and assist in resolving the problems of personal adjustment and vocational guidance affecting the physically, mentally, and socially exceptional and their families. Includes field study.

**504D. THEORETICAL AND EMPIRICAL BASES OF EDUCATION FOR DEAF PUPILS (3) (Formerly SPED 604D)**

**504MM. THEORETICAL AND EMPIRICAL BASES OF EDUCATION FOR LEARNERS WITH MILD/MODERATE DISABILITIES (3) (Formerly 604MM)**

**504MS. THEORETICAL AND EMPIRICAL BASES OF EDUCATION FOR LEARNERS WITH MODERATE/SEVERE DISABILITIES (3) (Formerly 604MS)**

**505MM OR MS. CURRICULUM AND INSTRUCTION IN SPECIAL EDUCATION (3 EACH) (Formerly 605MM or MS)**

Pre-requisites for MM, MS: SPED 400 or 508, 500A(600), 401A(601), and general education methods courses. This course examines models of assessment, curriculum, and instruction appropriate for pupils in a specific area of exceptionality. Students use research and contemporary theoretical orientations to evaluate, modify and/or design methodology and materials for assessment, curriculum development and instruction in an area of specialization. Emphasis is given to assessment methodology, selection of educational priorities, and principles of developing and evaluating individualized, integrated interventions. Fieldwork included.

**506. SPECIAL EDUCATION INTERNSHIP FIELD EXPERIENCE (3-3-3-3) (Formerly 606)**

Prerequisite: Must be enrolled in the Special Education Specialist Internship Program. Extended field work participation for special education intern teachers. Clinical supervision is provided through such means as video taping and on-site visits by the instructor. Students meet bi-weekly with the instructor to discuss their video tapes, on-site observation, and fieldwork activities. This course will normally be taken for four semesters (12 units).

**508. SPECIAL EDUCATION TRAINING FOR TEACHERS (4)**

Prerequisite: Admission to a Teaching Credential Program or possession of a California Teaching Credential. A lecture-discussion-laboratory course designed to meet the requirements of AB 1250, Special Education Training for Teachers. Students will explore the characteristics of exceptional pupils and appropriate instructional methods, including the study of Individualized Educational Programs, inclusion, etc. In addition, students will develop an understanding of current legislation as it applies to this topic. May not be taken for credit by students who have completed SPED 400.

**532. CURRICULUM & METHODS FOR WORKING WITH VERY YOUNG CHILDREN WITH DISABILITIES (3) (Formerly SPED695X)**

Prerequisites: SPED 500A and SPED 531. Study of curriculum and methods for infants, toddlers and preschoolers with disabilities, focusing on the developmental areas of communication, cognition, play and social interaction. Collaboration with families and other services providers in assessment, program development, and implementation is emphasized. The course includes an overview on designing environments to facilitate independent problem-solving and social interaction.
535. WORKING WITH FAMILIES WITH YOUNG CHILDREN WITH DISABILITIES: A TRANSDISCIPLINARY APPROACH (3) (Formerly SPED 635)

Techniques for working with families, teachers and other professionals involved in infant and preschool programs for children with disabilities. An emphasis is placed on utilizing a team approach involving various professionals and family members in the assessment, intervention, and evaluation process. Interviewing, counseling, and group process techniques are included.

SPED 566DHH. CURRICULUM & INSTRUCTION FOR DEAF & HARD OF HEARING PUPILS, (3) (Formerly SPED605D)

Prerequisites: SPED 504D (604D), and Pre- or Co-requisite SPED 560 (664). This course examines models of assessment, curriculum, and instruction appropriate for deaf and hard of hearing pupils across the age range. Students use research and contemporary theoretical orientations to evaluate, modify and/or design methodology and materials for assessment, curriculum development and instruction in an area of specialization. Emphasis is given to assessment methodology selection of educational priorities, and principles of developing and evaluating individualized, integrated interventions. Fieldwork included.

569. SEMINAR IN COMMUNITY RESOURCES FOR THE DEAF (3) (Formerly SPED 669)

Prerequisite: Admission to the Credential Program or permission of the instructor. Introduction to the social, educational, occupational and psychological implications of deafness in adolescence and adulthood. Orientation to the community, state, and national agencies providing services to persons with impaired hearing.

570MM. SPECIALIST FIELDWORK ANALYSIS IN EDUCATION OF LEARNERS WITH MILD/MODERATE DISABILITIES (3) (Formerly 607MM)

570MS. SPECIALIST FIELDWORK ANALYSIS IN EDUCATION OF LEARNERS WITH MODERATE/SEVERE DISABILITIES (3) (Formerly 607MS)

580D. SPECIALIST FIELDWORK WITH DEAF AND HARD OF HEARING PUPILS (6) (Formerly 608D)

580EC. ADVANCED SPECIALIST FIELDWORK IN EARLY CHILDHOOD SPECIAL EDUCATION (6) (Formerly 608EC)

580MM. ADVANCED SPECIALIST FIELDWORK WITH LEARNERS WHO HAVE MILD/MODERATE DISABILITIES (6) (Formerly 608MM)

580MS. ADVANCED SPECIALIST FIELDWORK WITH LEARNERS WHO HAVE MODERATE/SEVERE DISABILITIES(6) (Formerly 608MS)

595AA/EED595AA. LANGUAGE INSTRUCTION FOR DIVERSE LEARNERS (4)

Corequisite: EED 595AA. This course combines content from SPED 500A (600) and EED 570 and focuses on language acquisition and instruction for diverse learners. It covers theories relating to language teaching and learning, appropriate language assessment, and methods of teaching language to elementary school English Development (ELD) and learners with special needs. Available to students in the Preliminary Specialist Credential (Level I) program only.

595T. APPLICATIONS OF TECHNOLOGY IN SPECIAL EDUCATION (3)

Prerequisite: COMP 100 and SPED 400 or SPED 508 or equivalent. This course will provide an overview of computer-based technologies as they relate to the teaching and learning of all students as well as the use of assistive technology to facilitate the successful integration of individuals with disabilities. Selection, modification, and classroom use of technologies to improve or bypass physical, sensory, communicative, learning, and social limitation will be explored.

610. PROGRAM PLANNING IN SPECIAL EDUCATION (3)

(FALL SEMESTER ONLY)

Prerequisite: Graduate standing. Regulations, current theory, research findings and model programs are considered and their implications are applied to the selection of appropriate assessment methods, curricular and instructional approaches, and multidisciplinary approaches for educating exceptional pupils.

611. CONSULTATION PROCESSES IN EDUCATION (2)

Prerequisite: Special Education Credential or advanced standing in a school psychology credential program or possession of such credential. Prerequisite or corequisite: SPED 610; Corequisite: SPED 611L. This course is designed for experienced Special Education teachers, master teachers, and school psychology credential students to develop knowledge of processes for effective consultation with general classroom teachers, administrators, parents and students. It focuses on major theoretical positions and specific processes in educational consultation. Research and theoretical positions in the field are analyzed with emphasis on current trends.

611L. CONSULTATION AND COMMUNICATION LABORATORY IN EDUCATION (1)

Prerequisite: Special Education Credential or advanced standing in a school psychology program or possession of such a credential. Pre- or co-requisite: SPED 610; Corequisite: SPED 611. This course is designed for experienced Special Education teachers, master teachers, and school psychology credential students to develop skills for effective consultation with general classroom teachers, administrators, parents and students. It focuses on the application of major theoretical positions in specific skill development regarding educational consultation. Emphasis is placed on developing the skills necessary for specific stages in the consultation process.

612. DESIGN AND DEVELOPMENT OF INDIRECT SERVICES IN SPECIAL EDUCATION (2)

Prerequisite: Special Education Credential. Pre- or co-requisite: SP ED 610, 611, 611L; corequisite SP ED 612L. This course is designed for experienced educators who work with exceptional individuals to develop specialized knowledge regarding the critical elements involved in effective delivery of indirect services. It focuses on major theoretical positions and methodologies of indirect service development and delivery. Research and theoretical positions in the field are analyzed.

612L. LABORATORY IN DESIGN AND DEVELOPMENT OF INDIRECT SERVICES IN SPECIAL EDUCATION (1)

Prerequisite: Special Education Credential. Pre- or co-requisite: SPED 610, 611, 611L. Corequisite SPED 612. This
course is designed for experienced Special Education teachers and master teachers. It focuses on the application of major theoretical positions and specific skill development regarding the development and implementation of indirect services for exceptional individuals.

620. ASSESSMENT AND EVALUATION IN SPECIAL EDUCATION (3)
Prerequisite: SPED 500A or equivalent. An introduction to the theory and practice of assessment of exceptional individuals and to the policies and regulations governing the administration of tests. Includes the role of assessment in making instructional decisions and standards and procedures for evaluating the performance of exceptional students. Relates understanding of the technical adequacy of tests to research in the field of Special Education.

620EC. ASSESSMENT AND EVALUATION IN EARLY CHILDHOOD SPECIAL EDUCATION (3) (Fall semester only)
Prerequisite: SPED 500A or equivalent. Theory and practice of assessment and evaluation of infants, toddlers, and young children with exceptional needs. Examines the uses and limitations of current assessment practices for educational decision-making with this population. Includes evaluation, selection and administration of assessment instruments for both the young child and his/her family. Assessment for program evaluation is also considered. Open to graduate students in related disciplines (Communicative Disorders, Child Development, Psychology/Educational Psychology, Physical Therapy, Nursing) as well as in Special Education.

621. AFFECTIVE EDUCATION FOR LEARNERS WITH EXCEPTIONAL NEEDS (3)
Assumptions, objectives, methods, materials, and problems in the use of current classroom procedures for the development of self-awareness, intrinsic motivation, a positive self-concept, and supportive group relationships in work with exceptional pupils. Emphasis on modifications necessary for work with special populations, and on the development of appropriate goals and methodology for use in special classes, resource rooms, or mainstreaming situations.

622. CAREER EDUCATION FOR LEARNERS WITH SPECIAL NEEDS (3)
Prerequisite: SPED 603. Examination of current concepts, philosophies, and methods in career education of exceptional individuals as well as the exploration of the practical application of their potential in the work setting. Does not replace ED P 657 for PPS Credential.

623. RESEARCH AND ISSUES IN MAINSTREAMING (3)
Prerequisites: Graduate standing, Special Education Credential. An advanced level course for Special Education teachers, administrators and supervisors in investigating and evaluating programs for mainstreaming pupils with disabilities.

624. SPECIAL EDUCATION AND THE BILINGUAL PUPIL (3)
Prerequisite: SPED 508. A course to help Special Education teachers prepare and implement appropriate programs for the identification and education of exceptional pupils among the limited English proficiency population.

628 ECSE, ED/DHH, DHH, MM, MS. LEVEL II: INDUCTION & SUPPORT (2-2)
Prerequisites: Completion of the Preliminary Level I credential Program in the specialization verified employment in a qualifying special education teaching position, and verification that the employing agency has assigned a qualified support provider to the beginning teacher. The candidate, the university advisor, and the designated support provider collaborate in the development of a Level II professional credential induction plan for the support and professional development of each beginning teacher based on the preliminary induction plan developed in Level I. The curriculum for the university and non-university components of the induction plan addresses the candidate’s goals, builds upon the foundation established in the Preliminary Education Specialist Credential program, meets Level II professional standards, and applies conceptual knowledge to practice in ways that engage candidates in important issues of theory and practice.

629 ECSE, EC/DHH, DHH, MM, MS. LEVEL II: ASSESSMENT OF PROFESSIONAL COMPETENCE (2)
Prerequisites or co-requisites: Completion of all of the required courses and professional development activities designated in the Level II Professional Development Plan. Assessment of candidate competence is accomplished through a formal evaluation process including four phases: (1) faculty assessment of the candidate’s achievement of all goals specified on the professional induction plan; (2) assessment by a qualified assessor from a local education agency; (3) A faculty review of the candidate’s portfolio and teaching performance; and (4) An exit interview, to take place at the conclusion of the candidate’s course of study.

630. EDUCATION OF INFANT PARENT DYADS WITH SPECIAL NEEDS (3) CROSS-LISTED AS EPC 530
Prerequisites: EPC 430 or FES 335. The study of parent involvement in educational and intervention programs of various types for children from birth on. Review of research on parent-infant interaction and its impact on development of the child. Examination of program models for infants and parents with special needs; assessment, educational planning and evaluation.

634. TRANSDISCIPLINARY TEAM FUNCTION IN EARLY INTERVENTION (2)
Prerequisites: SPED 431, SPED 500A, SPED 532, and SPED 535. Co-requisite: SPED 634L. The course content is designed to train graduate level students from several disciplines (e.g. Communicative Disorders, Child Development, Psychology/Educational Psychology, Special Education, Physical Therapy, Nursing). The students will become knowledgeable and experienced in their roles as members of teams using transdisciplinary methods in their work with exceptional infants and toddlers. An emphasis is placed on involving and collaboration among a team of professionals and family members in the decision-making, intervention, and evaluation process. An in-depth look at case management in early intervention inter-agency collaboration in health care and educational systems is included.

634P. TRANSDISCIPLINARY TEAM FUNCTIONING PRACTICUM (3)
Prerequisites: SPED 431, SPED 500, SPED 532 and SPED 535; Corequisite: SPED 634. Each practicum student works in an early intervention program for infants and toddlers who have disabilities or are at high risk for disabilities, and their families, for a minimum of 90 hours. As part of this practicum, each student works as a service coordinator for one infant or toddler and family. This practicum includes working with the family researching information helpful to the exceptional infant/toddler or family, and gathering data to provide better service. In addition, students meet in teams from up to three hours per week to implement competencies in transdisciplinary team functioning, service coordination, accessing community resources, and collaborating with other disciplines and agencies.
536. METHODS FOR VERY YOUNG CHILDREN WITH MULTIPLE DISABILITIES: MOTOR AND ADAPTIVE SKILLS (3) (Formerly 636)
Prerequisites: SPED 500A(600); SPED 431, Pre- or Co-Requisite: SPED 532. Study of atypical patterns of motor development in infants, toddlers and preschool children with disabilities; and methods of assessment and intervention for fine and gross motor skills. An emphasis is placed on collaboration with families, physical and occupational therapists, and other service providers in assessment, program development, and implementation.

537. METHODS FOR VERY YOUNG CHILDREN WITH MULTIPLE DISABILITIES: SENSORY IMPAIRMENTS (3) (Formerly 637)
Prerequisites: SPED 431, SPED 500A or equivalents. Co-Requisites: SPED 532. This course identifies strategies for working with infants, toddlers, and preschoolers whose multiple disabilities include vision impairments or hearing loss or deafblindness. An emphasis is placed on collaboration with families, vision and hearing specialists and other related services personnel in assessment, program development and implementation.

560. LANGUAGE DEVELOPMENT OF DEAF AND HARD OF HEARING PUPILS (3) (Formerly 664)
Prerequisite: SPED 604D. Prerequisite or corequisite: DEAF 484. Review general theoretical framework of language development and grammatical principles of English in relationship to teaching deaf and hard of hearing students. Study and assess the acquisition, development and use of English by deaf and hard of hearing students.

561D. TEACHING READING TO DEAF AND HARD OF HEARING PUPILS (3) (Formerly 661D)
Prerequisites: SPED 400 or 508, 604D, and 664. A systematic examination of principles and instruction for deaf and hard of hearing pupils. This course focuses on reading skills development, vocabulary acquisition, development of concepts through reading, and language assimilation through reading. A secondary emphasis is placed on the selection and use of appropriate instructional resources to further develop reading skills.

562. TOTAL COMMUNICATION (3) (FALL SEMESTER ONLY) (Formerly 662)
Prerequisite: CD 345. Emphasis on oral and auditory modes of communication, both expressive and receptive. Study of research and literature of communication of the hearing impaired. Methods, procedures, and materials used in teaching speech, speech reading and auditory training.

565. FUNDAMENTALS OF TEACHING ENGLISH TO DEAF & HARD OF HEARING PUPILS (3) (SPRING SEMESTER ONLY) (Formerly 665)
Prerequisite: SPED 664. Principles, methods and techniques of teaching English to deaf and hard of hearing students. Development of strategies and activities for teaching English as well as critical analysis and evaluation of various systems and methods for teaching English to deaf and hard of hearing students.

567. AUDIOLOGY FOR THE TEACHER OF THE DEAF & HARD OF HEARING (3) (FALL SEMESTER ONLY) (Formerly 667)
Prerequisite: CD 345. Prerequisite or corequisite: SPED 604D. Examination of audiological theory and practice pertinent to the teaching of the deaf with special emphasis on hearing resources within a systematic paradigm designed for instruction of secondary deaf students.

640. PHYSICAL AND MULTIPLE DISABILITIES (3)
Prerequisites: SPED 400, or 508, or 431 or equivalent. Information pertaining to typical growth and development of children, and common physical disorders and their impact on development and learning. Transdisciplinary model of service delivery to address the needs of children and youth having physical and multiple disabilities. Specific information and techniques on physical positioning, lifting and carrying individuals with physical disabilities of different ages, various ways (both high and light technological) of adapting and accommodating for the needs of individuals having severe physical and multiple disabilities, and individualized teaching techniques. Positive and negative impact of medications.

641. AUGMENTATIVE & ALTERNATIVE COMMUNICATION (3)
Prerequisites: SPED 400, or 508, or 431 or equivalent. Techniques for assessment and intervention of alternative communication skills other than speech for students with severe disabilities. Development and use of augmentative communication devices (both light and high technology). Teaching the communicative partner how to make use of augmentative devices during interactions.

642. STUDENTS WITH MULTIPLE AND SENSORY IMPAIRMENTS (3)
Prerequisites: SPED 400, or 508, or 531 or equivalent. Educational issues for students with intellectual disabilities who also have sensory impairments (visual and auditory). Information on specific visual and hearing disorders, psychosocial implications of these disabilities on the developing child, teaching strategies to address students with these disabilities, adaptations and accommodations.

652. EDUCATING CHILDREN WITH MODERATE & SERIOUS EMOTIONAL DISTURBANCE (3) (FALL SEMESTER ONLY)
Prerequisite: Completion of SPED 400 or 508, or equivalent. Designed to study the behavioral characteristics of children with severe emotional disorders. Problems of social control, adjustment, effective curriculum and teacher evaluation.

655. THEORETICAL AND EMPIRICAL BASES OF EDUCATION OF LEARNERS WITH AUTISM (3)
Prerequisites: SPED 400 or 508, 500A, and 501A. This course deals with theory and research specific to the disorder of autism, focusing on major theoretical positions regarding etiologies of the condition, definition and identification of the population, and educational approaches.

670. READING PROCESSES (3)
Prerequisite: Graduate standing. Seminar designed to analyze reading/language performance of exceptional and non-exceptional individuals, to develop understanding of reading/language process contribution to exceptional and non-exceptional development, types of reading, relationship of reading to expressive communication forms, and the place of types of reading in the program.

671. ADVANCED STUDY OF READING PROBLEMS (3)
Prerequisite: E ED 421 or SPED 670 (SPED 670 may be taken concurrently). A clinical study of reading/language including consideration of sensory, neurological, psychological, sociological, and educational factors. Opportunity for practical experience.
672. CLINICAL PROCEDURES AND TESTING (2)
Prerequisite: SPED 670. Introductory course in general clinical procedures and educational diagnosis. Course work will include assessment procedures appropriate for groups and individuals of various age levels.

672L. CLINICAL PROCEDURES & TESTING LABORATORY (1)
Prerequisite: SPED 672, or may be taken concurrently. Clinical experience in educational diagnosis and procedures.

673. PRINCIPLES OF EDUCATIONAL THERAPY FOR INDIVIDUALS WITH EXCEPTIONAL NEEDS (3)
Prerequisite: Prior coursework in Special Education or experience equivalents. Study of behavioral and academic characteristics of children enrolled in clinical programs in the community. Includes therapeutic strategies, evaluation and case analysis.

676. CLINICAL ORGANIZATION AND ADMINISTRATION (2)
Prerequisite: SPED 672. Advanced study in general clinical procedures and diagnosis. Special consideration will be given to design, implementation and management of clinics in the educational setting.

676L. CLINICAL ORGANIZATION AND ADMINISTRATION LABORATORY (1)
Prerequisite: SPED 676 or may be taken concurrently. Experience in the administration of reading-learning clinics.

677. INSTRUCTIONAL STRATEGIES FOR ADOLESCENTS AND YOUNG ADULTS WITH MILD/MODERATE DISABILITIES (2)
Prerequisite SPED 610 or SPED 600 and SPED 601. Corequisite SPED 677L. Analysis of major theoretical positions and methodologies for instruction of adolescents and young adults with mild/moderate disabilities. Examination of theoretical and empirical bases of specific instructional interventions with emphasis on their use in heterogeneous groups or mainstream settings.

677L. INSTRUCTIONAL STRATEGIES FOR ADOLESCENTS & YOUNG ADULTS WITH MILD/MODERATE DISABILITIES - LABORATORY (1)
Corequisite SPED 677. Application of major theoretical positions and methodologies in the education of youth with disabilities. Skill development in application of the concepts presented in SP ED 677.

680. PROBLEMS & PRACTICES IN SPECIAL EDUCATION (3)
Advanced study of pertinent topics related to: (a) federal, state, and local agencies and their role in special and rehabilitative education, (b) organization of special education programs, (c) the preparation of teachers of exceptional children, and (d) research and demonstration projects in the education of exceptional children.

680D. PROBLEMS AND PRACTICES IN SPECIAL EDUCATION WITH DEAF AND HARD OF HEARING PUPILS (3)
Prerequisite: Completion of all courses in the DHH M.A. program (two courses may be taken concurrently). Advanced study of pertinent topics related to: (a) federal, state, and local agencies and their role in special and rehabilitative education, (b) organization of special education programs (c) the preparation of teachers of exceptional children, and (d) research and demonstration projects in the education of exceptional children.

680EC. PROBLEMS AND PRACTICES IN EARLY CHILDHOOD SPECIAL EDUCATION (3)
Prerequisites: SPED 531, SPED 532, SPED 535 or equivalent. Advanced study of decision making processes in early childhood special education, as influenced by personal values, ethics, public policy, law, and the professional knowledge base. Consideration of issues related to policy and practice in early intervention, and strategies for advocacy and systems change.

682EC. ADVANCED CLINICAL PRACTICUM: EARLY CHILDHOOD SPECIAL EDUCATION (3)

682EC/DHH. ADVANCED CLINICAL PRACTICUM IN EARLY CHILDHOOD/DEAF-HARD OF HEARING (3)

682MM. ADVANCED CLINICAL PRACTICUM: MILD/MODERATE DISABILITIES (3)

682SED. ADVANCED CLINICAL PRACTICUM: SERIOUS EMOTIONAL DISTURBANCE (3)

682MS ADVANCED CLINICAL PRACTICUM: MODERATE/SEVERE (3)
Pre- or Co-requisite: Completion of Level I Special Education teaching credential, or permission of instructor. Extended fieldwork participation in a program for learners with exceptional needs. Includes design and evaluation of a professional development plan, clinical supervision through video-tapes and/or on-site visits, and seminar meetings. This course may be taken for up to 6 units.

684. APPLICATION OF RESEARCH IN TEACHING EFFECTIVENESS (3)
Prerequisite: Teaching credential and three years teaching experience. Each student will review and evaluate research of effective teaching strategies and analyze selected propositions as a foundation of effective teaching decisions, transfer of learning, and curricular decisions that facilitate and extend student learning.

685. CONTEMPORARY ISSUES IN SPECIAL EDUCATION (1 EACH)
Current research, theory, practice, topics and issues in Special Education will be examined in a series of mini-courses.
A. Abuse and Neglect of Students with Disabilities
B. Sexuality and the Student with Disabilities
C. Residential Options for the Disabled
D. Professional Stress and Survival among Teachers of the Disabled
E. Manual Communication for Developmentally Delayed
F. Working with Paraprofessionals

687. PRACTICUM FOR SUPERVISING TEACHERS (3)
Students apply their knowledge of supervision theory and teaching effectiveness research to on-site situations. A major part of this practicum will involve practical applications of the supervisory techniques in working with novice teachers. In addition, the participants will participate in pedagogical studies to improve their own teaching effectiveness and will learn techniques for improving teaching effectiveness within their own schools.

695. SEMINAR IN SELECTED STUDIES (3)
Prerequisite: Graduate standing. Special seminars in selected topics in Special Education will be offered as the availability of staff and extent of student background allow.

695D. WORKING WITH VERY YOUNG DEAF AND HARD-OF-HEARING CHILDREN AND THEIR FAMILIES (3)
Prerequisites: Graduate standing; Completion of Level I DHH Specialization courses or permission of the instructor. Study of assessment, curriculum and methods for working with very young deaf and hard-of-hearing children. Emphasis will be given to the critical role of families in nurturing the young child’s development and learning. Critical
developmental areas during the first few years of life (communication, cognition, play and social interaction) are addressed as they relate to the unique characteristics of deaf and hard-of-hearing children.

696. GRADUATE RESEARCH (1-3)
Prerequisite: Acceptance by the Department of a thesis on an advanced topic in the field of education.

697. DIRECTED COMPREHENSIVE STUDIES (3)
Prerequisite: Prior completion of all course requirements for the Master’s degree.

698C. THESIS OR GRADUATE PROJECT (3-6)
Prerequisite: Acceptance by a departmental thesis committee of a thesis on a topic in the field of special education.

SPED 699X,Y,Z. INDEPENDENT STUDY (1-3)
DEGREE PROGRAMS IN ENGINEERING

Undergraduate
Bachelor of Science in Civil Engineering
Bachelor of Science in Computer Engineering
Bachelor of Science in Electrical Engineering
Bachelor of Science in Manufacturing Systems Engineering
Bachelor of Science in Mechanical Engineering
Bachelor of Science in Engineering (no option)

Graduate
Master of Science in Engineering with options in:
  - Applied Mechanics
  - Automation Engineering
  - Electrical Engineering
  - Engineering Management

Materials Engineering
Mechanical Engineering
Structural Engineering

The course requirements for the general Bachelor of Science in Engineering are listed below. The requirements of the other Bachelor of Science degree programs and the Master of Science in Engineering programs are detailed under the various departmental listings that follow.

The Bachelor of Science degrees in Civil Engineering, Electrical Engineering, Engineering (no option), and Mechanical Engineering are accredited by the Accreditation Board for Engineering and Technology (ABET).

UNDERGRADUATE PROGRAMS IN ENGINEERING

The undergraduate engineering programs at California State University, Northridge, prepare graduates for lifelong careers in the field that will allow them to make productive contributions to society and to find personal satisfaction in their work. To accomplish this overall objective, graduates of the engineering programs will have the following qualities:

1) An understanding of fundamental engineering principles, analysis and design;
2) An awareness of engineering practices in industry and emerging technologies;
3) The ability to communicate well, both orally and in writing, and the ability to work as a productive member of an interdisciplinary team;
4) An understanding of the impact of engineering in a societal context; and
5) A sense of exploration and the ability to maintain lifelong learning.

These goals determine the content of each undergraduate engineering program.

Students majoring in engineering can choose from five separate programs in specific engineering disciplines: civil engineering, computer engineering, electrical engineering, manufacturing systems engineering, and mechanical engineering. In addition, students can take a general major in engineering, which provides greater breadth but less specialization. All degree programs, except computer engineering, have common course requirements for the first two years. Students who are not sure which field of engineering they want to select for their careers can start at Northridge as a major in engineering and transfer later to one of the five discipline-specific majors.

All engineering curricula at Northridge are designed to prepare graduates who will have the following qualities:

* an ability to apply knowledge of mathematics, science and engineering,
* an ability to design and conduct experiments, as well as to analyze and interpret data,
* an ability to design a system, component, or process to meet desired needs,
* an ability to function on multi-disciplinary teams,
* an ability to identify, formulate, and solve engineering problems,
* an understanding of professional and ethical responsibility,
* an ability to communicate effectively,
* the broad education necessary to understand the impact of engineering solutions in a global, and societal context,
* a recognition of the need for, and an ability to engage in life-long learning,
* a knowledge of contemporary issues, and
* an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

All engineering programs begin with courses in fundamentals of mathematics, science, engineering and computer science. Sophomore and junior courses in all engineering fields provide a combination of fundamental theory and design practice. This combination provides students with the fundamentals required for a lifelong professional career while making them ready for productive work from their first day on the job. Students take a program of general education, which prepares them to view the broader consequences of their engineering designs. In addition, students have opportunities for practice in written and oral communication in both their general education courses and in the courses in their major. Excellent communication skills are an essential ingredient of a successful engineer.

Senior courses in engineering emphasize advanced concepts and include a capstone design course. In that design course students apply all their previous engineering education to the design of a real engineering project. Students analyze not only the technical aspects of the design but also its economic and social implications. The results of the design project include the actual construction of the component or system as well as written and oral presentations of the design work. The capstone design course provides students an experience that is as close as possible to an industrial design project as the final step in their engineering education.

ENGINEERING/COMPUTER SCIENCE SCHOLARSHIP INFORMATION

The College of Engineering and Computer Science administers a substantial undergraduate scholarship program, disbursing over $40,000 each year to high-achieving engineering and computer science students. Some of the scholarships given by industry are from Litton Industries, Teradyne, Xircom, Sterling Software, Lockheed Martin, and the Raytheon Solid State Microwave Laboratory. The college administers memorial scholarships and scholarships donated by friends of the University. They include the Honorable Julian Beck Scholarship, Pearl Schumann Bloch Memorial Endowed Scholarship, Dean’s Freshman Scholarship, Ila Johnson Memorial Scholarship, Dianne Marks Endowed Scholarship, Richard Pickett Memorial Scholarship, Senior Computer Scholarship, and Women in Science and Engineering Scholarship. The College also administers the GTE A. F. Ratcliffe Minority Graduate Fellowship.

Applications and information are available in mid-February with applications due in mid-April. Specific dates and further information can be obtained from the College administrative offices.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN ENGINEERING (no option)

HIGH SCHOOL PREPARATION

All engineering programs are based on adequate high school preparation in science, mathematics, and English. High school courses should include algebra, plane geometry, trigonometry, chemistry or physics (both desirable), and four years of English. Students who have not had an adequate background of pre-engineering work in high school may be required to take some additional work in their first year and may not be able to complete an engineering program in eight semesters. Entering beginning engineering students must take the Entry Level Mathematics Test and the Mathematics, Chemistry, and English Placement Tests before registration in basic courses will be permitted. Students must take these tests before they begin their studies at CSUN.

PRE-REGISTRATION REQUIREMENTS

The campus requires most beginning students to take the Entry Level Mathematics Exam (ELM) and the English Placement Test (EPT) prior to enrolling in their courses. Refer to the section of this catalog entitled Appendices-Admission for further details on these exams. In addition to these general university requirements, students in any of the engineering programs may also need the following exams:

1. Mathematics Placement Test (MPT) is required prior to enrollment in Math 150A. Students who have passed or are exempt from the ELM should take this exam prior to enrolling in their classes so they may be placed in the appropriate mathematics course. A minimum score of 24 is required to enroll in Math 150A. Students with scores of 3, 4, or 5 on the AP Calculus AB or BC are exempt from the MPT. Students who have passed the ELM but receive a MPT score of 23 or less should enroll in Math 105.
2. Chemistry Placement Test (CPT) is required with a score of 40 prior to enrolling in Chemistry 101. Students who do not receive this score must receive a grade of “C” or better in Chemistry 105 before taking Chemistry 101.

An advisor will review the details of these examinations with each student before they enroll in their courses.

TRANSFER REQUIREMENTS

All degree programs in engineering accommodate students beginning as freshmen or as transfer students. Transfer students should have completed lower division writing, mathematics, physics, and chemistry courses. Courses that are transferred into the major are reviewed to ensure that they satisfy the same requirements as courses at Northridge. Courses transferred into the engineering major must have been completed with at grade of “C” or better.

SPECIAL GRADE REQUIREMENTS

1. All students must pass the English Placement Test with a score of “151” or higher before enrolling in any 200-level engineering courses.
2. All students must complete the Lower Division Writing Requirement before enrolling in any 300-level engineering courses.
3. All students must attempt the Upper Division Writing Proficiency Examination before enrolling in any 400-level engineering courses.
4. A grade of “C” or better is required in all courses in the major. More stringent prerequisite requirements may apply to some courses.
5. Senior level courses cannot be taken unless the student has previously completed, or is concurrently completing, all freshman, sophomore, and junior level core requirements.
LOWER DIVISION REQUIRED COURSES (48 UNITS)

FRESHMAN YEAR
- MATH 150A Mathematical Analysis I ...............5
- CHEM 101/L General Chemistry and Laboratory ....4/1
- MSE 101/L Introduction to Engineering and Lab ....1/1
- MATH 150B Mathematical Analysis II ...............5
- PHYS 220A/L Mechanics and Laboratory ..........3/1
- COMP 106/L Computing in Engineering and Science & Laboratory ................................2/1

SOPHOMORE YEAR
- MATH 250 Mathematical Analysis III ..............3
- PHYS 220B/L Electricity and Magnetism & Laboratory .............................................3/1
- MSE 227/L Engineering Materials & Lab ...........3/1
- MATH 280 Applied Differential Equations ...........3
- CE 240 Engineering Mechanics I .....................3
- EE 240/L Electrical Engineering Fundamentals & Lab .............................................3/1

Select one of the following 3-unit classes.
- PHYS 220D Optics and Modern Physics ..............3
- CHEM 106 General Chemistry II for Engineering ....3

UPPER DIVISION REQUIRED COURSES (51 UNITS)

JUNIOR YEAR
- MSE 304 Engineering Economy .......................3
- MSE 309 Numerical Analysis of Engineering Systems .............................................2
- AM 316 Engineering Dynamics .......................3
- AM 317 Mechanics Laboratory ........................1
- EE 320/L Theory of Digital Machines and Lab ....3/1
- ME 370 Thermodynamics ................................3
- ME 391 Thermal Systems Measurement Lab ..........1

Select one of the following 3-unit classes.
- ME 375 Heat Transfer .....................................3
- ME 390 Fluid Mechanics ................................3

SENIOR YEAR
The student’s program must also include a senior program composed of no fewer than 31 semester units of advanced courses in engineering or closely related fields. A minimum of 25 semester units must be in engineering or computer science and a minimum of 22 of those units must be taken in residency. The senior program must include a ‘capstone’ design experience and additional courses with design content so that the student’s total engineering program contains at least one semester of engineering design. This one semester of engineering design must be taken in residency. All senior programs must be approved by an advisor, the department chair, and the associate dean prior to enrolling in these courses. To receive the Bachelor of Science in Engineering, the student must complete the University requirements, the engineering major requirements listed above, and an approved senior program.

TOTAL UNITS IN THE MAJOR (99 UNITS)

GENERAL EDUCATION (30 UNITS)
Engineering majors have modified general education programs depending upon the year and enrollment status as a college student. Returning and transfer students should consult an advisor before planning their general education programs. A summary of the current general education requirements for incoming freshmen is presented below.

The General Education requirements of Subsections A-2 (Critical Reasoning) and A-3 (Mathematics), and all of Sections B (Natural Sciences) and E (Applied Arts and Sciences), are satisfied by required courses in the major. In addition, 3 units of Section D (Social Sciences) General Education requirement are satisfied by required courses in the major; however, the remaining 6 units must be completed with courses in two different Social Sciences disciplines.

As part of the engineering major, students are required to take an approved concentration to provide in-depth study in some area of the Humanities or Social Sciences. This concentration may be part of a student’s General Education program. It must have 9 units with at least 6 units in upper division.

Students must submit their proposed concentration to the Academic Advisor’s office for approval by the Associate Dean. It is strongly recommended that student plan his/her proposed concentration prior to the completion of more than 12 units of his/her General Education requirement. The proposed concentration should be submitted for approval before taking upper-division General Education courses. Forms for this purpose, together with sample concentrations, are available from the Academic Advisor’s office.

TITLE 5 (6 UNITS)
TOTAL UNITS REQUIRED FOR THE DEGREE: 135

MINOR IN ENGINEERING
21 units of Engineering courses are chosen with the assistance of an Engineering advisor to meet the student’s career objective. Final approval is made by a department chair or the Dean of the College of Engineering and Computer Science. Ten units of the 21 units must be upper division courses. The student may have to complete prerequisite courses such as Math, Physics, or Chemistry. Any required non-Engineering prerequisite courses will not count toward the required 21 units. This program is not accredited by the Accreditation Board for Engineering and Technology.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN ENGINEERING
The college offers a Master of Science Degree in Engineering with the following options:
- Applied Mechanics
- Automation Engineering
- Electrical Engineering
- Engineering Management
- Materials Engineering
- Mechanical Engineering
- Structural Engineering
Completion of this degree requires 30-33 units under the Thesis Plan, the Project Plan, or the Comprehensive Exam Plan. See individual departments for the specific requirements of the various options.
COURSE LIST

ENGR 102/L. INTRODUCTION TO ENGINEERING (1/2)
An introduction to the engineering major and profession. Emphasis on community building, orientation to the University, cultural awareness, study skills, motivation and career awareness. One hour of lecture and two three-hour laboratories.

ENGR 103. THE ENGINEERING PROFESSION (1)
An introduction to engineering as a profession. This course is recommended as an orientation course for the engineering major. It may not be used to satisfy major requirements in engineering.

ENGR 303. THE ENGINEERING PROFESSION (1)
Prerequisite: Junior standing. An introduction to engineering as a profession for junior college transfer students. Courses will include two field trips to local industry. This course may not be used to satisfy major requirements in engineering.

ENGR 494HCP. HONORS CO-OP (3,3)
Prerequisite: Second semester junior standing in major, upper-division writing requirement, minimum 3.0 GPA. Co-Op Training Program. Supervised off-campus professional engineering experience for selected Honors students. Honors Co-Op units do not count towards General Education units or major requirements.
DEPARTMENT OF CIVIL AND MANUFACTURING ENGINEERING

Chair: Stephen Gadomski

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

Department Office: EN 2407
Phone: (818) 677-2166
Office Manager: Betsy Jones
Graduate Coordinator: Contact Department Office


ADJUNCT FACULTY: Edward Larson (Structures)

EMERITUS FACULTY: Gerald Davis, Melvin Lifson, James Roberts, and Arnold Roe.

LECTURERS: Nazaret Dermendjian and Tarek Shraibati.

DEPARTMENT PROGRAMS: Civil engineering faculty provide instruction in statics and strength of materials, dynamics and mechanics laboratory, as well as the following programs:

Bachelor of Science in Civil Engineering
M.S. Engineering with Option in Applied Mechanics
M.S. Engineering with Option in Structural Engineering

Manufacturing systems engineers provide instruction in introduction to engineering, computer-aided design and graphics, engineering materials, and engineering economy, as well as the following programs:

Bachelor of Science in Manufacturing Systems Engineering
M.S. Engineering with Option in Automation Engineering
M.S. Engineering with Option in Materials Engineering
M.S. Engineering with Option in Engineering Management

GENERAL REQUIREMENTS FOR THE B.S. DEGREES OFFERED WITHIN THE DEPARTMENT

High School Preparation
It must be emphasized that these programs are based upon an expectation of adequate high school preparation in science, mathematics, and English. High school courses should include algebra, plane geometry, trigonometry, chemistry, or physics (both desirable), and four years of English. Entering beginning engineering students must take the Entry Level Mathematics Test and the Mathematics, English, and English Placement Tests before registration in basic courses will be permitted.

Required test scores are presented below:

1. ELM (Entry Level mathematics) greater than 550 is required to earn college credit for mathematics. Students are exempt from this exam if they score 560 or above on the SAT, 25 or above on the enhanced ACT, or a 3, 4, or 5 on the AP (Advanced Placement) Calculus AB or BC.
2. MPT (Mathematics Placement Test) a minimum score of 24 is required to enroll in Math 150A. Students with scores of 3, 4, or 5 on the AP Calculus AB or BC are eligible for Math 150B and exempt from the MPT.
3. CPT (Chemistry Placement Test) a minimum score of 40 is required to enroll in CHEM 101. All students who had high school chemistry and expect to enroll in CHEM 101 must take this test regardless of score on the AP Chemistry exam.
4. EPT (English Placement Test) a score of 151 or above is required to enroll in ENGL 155. Students with scores of 3, 4, or 5 on AP English Language & Composition receive college credit for ENGL 155, and a score of 3, 4, or 5 on the AP English Literature & Composition receive credit for ENGL 155 and ENGL 255.

Students are referred to the section of this catalog entitled Appendices-Admission regarding rules and regulations as to earned college credit. Students who have not had an adequate background of pre-engineering work in high school may be required to take some additional work in their first year and may not be able to complete an engineering program in eight semesters.

Special Grade Requirements

1. All students must pass the English Placement Test with a score of 151 or higher before enrolling in any 200-level engineering courses.
2. All students must complete the Lower Division Writing Requirement before enrolling in any 300-level engineering courses.
3. All students must attempt the Upper Division Writing Proficiency Examination before enrolling in any 400-level engineering courses.
4. A grade of “C-” or better is required in all courses in the major.
5. Senior level courses cannot be taken unless the student has previously completed, or is concurrently completing, all freshman, sophomore, and junior level core requirements.

REQUIREMENTS FOR THE M.S. DEGREE IN ENGINEERING

GENERAL REQUIREMENTS FOR ADMISSION TO THE PROGRAM:

1. Satisfaction of all requirements for admission to the University (see University section regarding Graduate Programs provided elsewhere in this catalog).
2. A bachelor’s degree in Engineering or in an allied field with some equivalency to Engineering from an accredited university or college.
3. Approval by the College of Engineering and Computer Science and the Department Graduate Coordinator.

FOR ADVANCEMENT TO CLASSIFIED GRADUATE STATUS:

1. Satisfaction of University requirements for classified status (see University section regarding Graduate Programs provided elsewhere in this catalog).
2. Completion of all requirements noted on individual admissions documents.
3. Submit tentative program of study to the graduate coordinator.
4. Approval by the Department Graduate Coordinator.

FOR THE DEGREE:

1. Satisfaction of University requirements for the M.S. Degree (see University section regarding Graduate programs provided elsewhere in this catalog).
2. Completion of 30-33 units under either the Thesis Plan, the Project Plan, or the Comprehensive Examination Plan as follows:

   A. Thesis Plan (30 units)
      a) 24 units of course work applicable to the M.S. degree, of which at least 12 units must be Engineering courses at the 600-level or above.
      b) 6 units of 698 (Thesis), and successful defense of Thesis.

   B. Project Plan (30 units)
      a) 27 units of course work applicable to the M.S. degree, of which at least 15 units must be
Engineering courses at the 600-level or above.

b) 3 units of 698 (Graduate Project) culminating in a comprehensive report.

C. Comprehensive Exam Plan (33 units)
   a) 30 units of coursework applicable to the M.S. degree, of which at least 18 units must be 600-level Engineering courses.
   b) 3 units of 697 Directed Comprehensive Study.

3. Formal approval of granting of the degree by the Engineering faculty.
program in CIVIL ENGINEERING, APPLIED MECHANICS, AND STRUCTURAL ENGINEERING

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Additional information about this program and its facilities, faculty and students can be found on the World Wide Web at: http://www.eecs.csun.edu/~cme

MISSION STATEMENT: To provide our students with a sound basic civil engineering education and to prepare them for entry into the professional practice of civil engineering, as well as to inculcate in them a recognition that civil engineering is a people serving profession. In keeping with these goals, we aim to develop in them an understanding that a successful professional career is one that addresses the needs of society and requires a lifetime of learning and leadership.

THE MAJOR: Civil Engineers design the infrastructure of our world, from bridges and freeways to sewer systems and libraries. Their work touches nearly every facet of our society’s every-day lives, including but not limited to -- structures, water supply, waste management, materials, construction, geotechnical, the environment, and transportation. Their work is vital, particularly in Southern California, where environmental, transportation and water issues are of major importance and where structural problems, especially related to earthquakes, demand sound engineering solutions.

Civil Engineering majors at Cal State Northridge receive a solid, broad-based education. During the first two years and into the third year, all Engineering majors complete a common engineering core curriculum. Among the many topic areas in the core curriculum are mathematics, physics, chemistry, computer programming, engineering materials, electrical circuits, engineering mechanics, thermodynamics, engineering economy, and numerical analysis.

The junior and senior years in Civil Engineering are built upon the common engineering core curriculum. These two years include instruction in structures, mechanical vibrations, hydraulics, soil mechanics, surveying, computer-aided design and graphics, engineering mechanics, concrete and steel design, statistics, program administration, and senior design. In addition, students select electives in topic areas ranging from hydrology, geotechnical, engineering management to more advanced work in structures.

Civil Engineering students take classes and work in the following facilities:

• the Applied Mechanics Laboratory, where students apply engineering techniques to the static and dynamic behavior of mechanical systems;

• the Civil Engineering Senior Design Laboratory, used in a two-semester course that simulates a professional civil engineering environment;

• the Geotechnical Laboratory, where students look at the behavior of soil as an engineering material;

• the Structural Analysis Research Center, where students have the opportunity to work with qualified faculty on such diverse projects as dams, buildings, towers, and even spacecraft.

Besides these facilities, students use Los Angeles itself as a laboratory; studying buildings, spacecraft, dams, and other structures.

With the broad-based education students receive at Cal State Northridge, it is highly recommended that students prepare themselves to take the EIT (Engineering in Training), now commonly referred to as the FE (Fundamentals in Engineering) Exam, before they graduate from this institution. This is a national exam, eight hours in length, covering the basic topics that comprise the common core in engineering. The EIT or FE exam is the first of two exams that are required in order to become a registered engineer in the State of California. To sit for the second exam, additional work experience is required beyond the bachelor’s degree. In today’s society, it is almost imperative that students, preparing for the Civil Engineering profession, become registered. Cal State Northridge has an excellent reputation of solidly preparing students toward this goal.

Civil Engineering students have opportunities to participate in student chapters of professional societies such as ASCE (American Society of Civil Engineers) and AWMA (Air and Waste Management Association), as well as interdisciplinary student organizations in the College, such as Tau Beta Pi, the Society of Women Engineers, the National Society for Black Engineers, and the Society for Hispanic Professional Engineers. The Civil Engineering program is accredited by ABET (Accreditation Board for Engineering and Technology). As part of the accreditation process, ABET requires a minimum of 32 semester units of mathematics and basic sciences, 48 semester units of engineering science, and 16 semester units of Engineering design. The major automatically meets the ABET mathematics and engineering science requirements. Although the number of design units has been relaxed with the new Engineering Criteria 2000, design must be present throughout the curriculum. Design units for specific courses are given in the COURSE LIST below.

CAREERS: Civil Engineering is the oldest of the engineering disciplines, responsible for projects dating back more than 5,000 years. Rebuilding and expanding the civil engineering infrastructure of the United States -- including roads, bridges, rail networks, sewage treatment plants, deep-water ports, and municipal water systems -- is one of the technology areas that has been targeted for rapid development by the National Science Foundation in the 21st Century.

Most practicing Civil Engineers are employed in the areas of structural engineering, transportation engineering, environmental engineering, water resources engineering, geotechnical engineering, construction engineering, or surveying. Many of these areas, such as structural engineering, encompass the design of such seemingly diverse items as spacecraft and office buildings.

Although the majority of Civil Engineers are employed in private industry, many are involved in consulting or own their own firms, and a significant number are employed in the government sector, where they are involved in the provision of highways and other public works for state and local government.

The degree can be used as a stepping-stone to graduate work in engineering, law, business, or even medicine. Many Civil Engineering graduates return to Cal State Northridge to earn their M.S. degree in the Applied Mechanics or Structural Engineering programs.

LOWER DIVISION REQUIRED COURSES (44 Units)

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>General Chemistry and Lab</td>
<td>4/1</td>
<td></td>
</tr>
<tr>
<td>COMP 106</td>
<td>Computing in Engineering and Science and Lab</td>
<td>2/1</td>
<td></td>
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<tr>
<td>MATH 150A</td>
<td>Mathematical Analysis I</td>
<td>5</td>
<td></td>
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<tr>
<td>MATH 150B</td>
<td>Mathematical Analysis II</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>MSE 101/L</td>
<td>Introduction to Engineering and Lab</td>
<td>1/1</td>
<td></td>
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<tr>
<td>PHYS 220A</td>
<td>Mechanics and Lab</td>
<td>3/1</td>
<td></td>
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</tbody>
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Freshman Year
Sophomore Year
CE 240  Engineering Mechanics I ..................3
EE 240  Electrical Engineering Fundamentals ....3
MATH 250  Mathematical Analysis III ...............3
MATH 280  Applied Differential Equations ..........3
MSE 227/L  Engineering Materials and Lab ..........3/1
PHYS 220B  Electricity and Magnetism and Lab ......3/1

UPPER DIVISION REQUIRED COURSES (52 Units)
Junior Year
AM 316  Engineering Dynamics .......................3
AM 317  Mechanics Lab .......................................1
CE 308/L  Surveying and Laboratory .................2/1
CE 340  Engineering Mechanics II .................3
CE 435  Structures I ...........................................3
ME 309  Numerical Analysis of Engineering Systems ....2
ME 370  Thermodynamics .......................................3
ME 390  Fluid Mechanics .......................................3
ME 304  Engineering Economy .........................3
MSE 319/L  Engineering CAD & Graphics, and Lab....1/1
MSE 362  Engineering Statistical Applications .......3
MSE 365  Engineering Project and Program 
Administration ..............................................3

Senior Year
AM 410  Mechanical Vibrations .......................3
CE 426/L  Soil Mechanics ...............................3/1
CE 438  Reinforced Concrete Design .................3
CE 439  Structural Steel Design .......................3
CE 488A  Civil Senior Design I ......................1/1
CE 488B  Civil Senior Design II .......................2
ME 493  Hydraulics ...........................................3

UPPER DIVISION ELECTIVES (3 Units)
Suggested electives are listed below. Choose an appropriate course with the help of a senior advisor to meet student’s objectives. Other courses are allowed, as long as they meet ABET criteria.
CE 433/L  Transportation ....................................2/1
CE 436/L  Structures II ..................................3/1
CE 437  Timber Design .......................................3
CE 460/L  Hydrology ...........................................2/1
CE 487  Water Pollution ....................................3
ME 485  Intro. to Environmental Engineering .......3
MSE 404  Engineering Management ..................3

TOTAL UNITS IN THE MAJOR (99 Units)
GENERAL EDUCATION (30 Units)
Engineering majors have modified general education programs depending upon the year and enrollment status as a college student. Returning and transfer students should consult an advisor before planning their general education programs. A summary of the current general education requirements for incoming freshmen is presented below.
The General Education requirements of Subsection A-2 (Critical Reasoning) and A-3 (Mathematics), and all of Sections B (Natural Sciences), and E (Applied Arts and Sciences) are satisfied by required courses in the major. In addition, 3 units of Section D (Social Sciences) General Education requirement are satisfied by the major; however, the remaining 6 units must be completed with courses in two different Social Sciences disciplines.
As part of the engineering major, students are required to take an approved concentration to provide in-depth study in some area of the Humanities or Social sciences. This concentration may be part of a student’s General Education program. It must have 9 units with at least 6 units in upper division.
Students must submit their proposed concentration to the Academic Advisor’s office for approval by the Associate Dean. It is strongly recommended that the student plan his/her proposed concentration prior to the completion of more than 12 units of his/her General Education requirement. The proposed concentration should be submitted for approval before taking upper-division General Education courses. Forms for this purpose, together with sample concentrations, are available from the Academic Advisor’s office.

TITLE 5 (6 Units)
TOTAL UNITS REQUIRED FOR DEGREE IN CIVIL ENGINEERING: 135

MASTER OF SCIENCE IN ENGINEERING
OPTION: APPLIED MECHANICS
SPECIAL REQUIREMENTS
1. Students entering the program are expected to have completed Mechanical Vibrations (AM 410) and Structure I (CE 435). Admitted students who have not completed such courses as part of an undergraduate program must satisfactorily complete them prior to continuing in the program. These courses cannot be applied toward the formal degree program of study.  
2. This program is intended primarily for students holding a B.S. in Applied Mechanics or in a closely related field. Prospective students whose undergraduate degree is not in a closely related field should contact the Department in order to discuss additional prerequisite courses with a faculty advisor.
3. The total number of 400-level units in the formal program of study for students pursuing either the Thesis or Project Plans may not exceed 9. The total number of 400-level units in his formal program of study for students pursuing the Comprehensive Examination Plan may not exceed 12.

REQUIRED COURSES (30-33 UNITS)
1. Culminating Experience (3-6 units)
   AM 697  Comprehensive Exam (3) or 
   AM 698  Graduate Project (3) or Graduate Thesis (6)
2. Required Core Courses (3-7 units)
   CE 436  Structures II .....................................3/1
   AM 509  Methods of Applied Mechanics ................3
   NOTE: If CE 436 or equivalent was completed as part of a B.S. degree program, additional Group I or Group II units must be included in the program.
3. Group I Courses (12-15 units), selected with the guidance and prior approval of the faculty advisor and Department.
   AM 610  Advanced Mechanical Vibrations ............3
   AM 618  Theory of Elastostatics ..........................3
   AM 619  Theory of Plates and Shells ....................3
   AM 640  Energy and Approximate 
   Methods in Elastomechanics ..........................3
   AM 642  Finite Element Method in Mechanics .........3
4. Group II Courses (3-12 units), selected with the guidance and prior approval of the faculty advisor and Department.
   AM 421  Aerostructures ....................................3
REQUIRED COURSES (30-33 UNITS)

1. Culminating Experience (3-6 units)
   CE 697 Comprehensive Exam (3)
   or
   CE 698 Graduate Project (3) or Graduate Thesis (6)

2. Required Core Courses (0-7 units)
   AM 410 Mechanical Vibrations 3
   CE 436 Structures II 3

   NOTE: If AM 410 and CE 436 or equivalent were completed as part of an undergraduate degree program, additional Group I or Group II units must be included in the program.

3. Group I Courses (12-15 units), selected with the guidance and prior approval of the faculty advisor and Department.
   CE 626 Geotechnical Foundation Design 3
   CE 638 Advanced Reinforced Concrete Design 3
   CE 639 Advanced Structural Steel Design 3
   ME 501A Seminar in Engineering Analysis 3
   CE 641 Earthquake Engineering 3

4. Group II Courses (12-15 units), selected with the guidance and prior approval of the faculty advisor and Department.
   AM 610 Advanced Mechanical Vibrations 3
   AM 618 Theory of Elastic Stability 3
   AM 619 Theory of Plates and Shells 3
   AM 636 Structural Dynamics 3
   AM 637A Optimum Structural Design 3
   AM 640 Energy and Approximate Methods in Elastomechanics 3
   AM 642 Finite Element Method in Mechanics 3
   AM 644 Advanced Finite Element Methods 3
   CE 437 Timber Design 3
   CE 643 Foundation Design 3

OPTION: STRUCTURAL ENGINEERING

SPECIAL REQUIREMENTS

1. Students entering the program are expected to have completed Soil Mechanics (CSE 426 and Structure I (CE 435), Reinforced Concrete Design (CE 438), and Structural Steel Design (CE 439). Admitted students who have not completed such courses as part of an undergraduate program must satisfactorily complete them prior to continuing in the program. These courses cannot be applied toward the formal degree program of study.

2. This program is intended primarily for students holding a B.S. in Civil Engineering or in a closely related field. Prospective students whose undergraduate degree is not in a closely related field should contact the Department in order to discuss additional prerequisite courses with a faculty advisor.

3. The total number of 400-level units in the formal program of study for students pursuing either the Thesis or Project Plans may not exceed 9. The total number of 400-level units in the formal program of study for students pursuing the Comprehensive Examination Plan may not exceed 12.

REQURED COURSES (30-33 UNITS)

1. Culminating Experience (3-6 units)
   CE 697 Comprehensive Exam (3)
   or
   CE 698 Graduate Project (3) or Graduate Thesis (6)

2. Required Core Courses (0-7 units)
   AM 410 Mechanical Vibrations 3
   CE 436 Structures II 3

   NOTE: If AM 410 and CE 436 or equivalent were completed as part of an undergraduate degree program, additional Group I or Group II units must be included in the program.

3. Group I Courses (12-15 units), selected with the guidance and prior approval of the faculty advisor and Department.
   CE 626 Geotechnical Foundation Design 3
   CE 638 Advanced Reinforced Concrete Design 3
   CE 639 Advanced Structural Steel Design 3
   ME 501A Seminar in Engineering Analysis 3
   CE 641 Earthquake Engineering 3

4. Group II Courses (12-15 units), selected with the guidance and prior approval of the faculty advisor and Department.
   AM 610 Advanced Mechanical Vibrations 3
   AM 618 Theory of Elastic Stability 3
   AM 619 Theory of Plates and Shells 3
   AM 636 Structural Dynamics 3
   AM 637A Optimum Structural Design 3
   AM 640 Energy and Approximate Methods in Elastomechanics 3
   AM 642 Finite Element Method in Mechanics 3
   AM 644 Advanced Finite Element Methods 3
   CE 437 Timber Design 3
   CE 643 Foundation Design 3

COURSE LIST - APPLIED MECHANICS

(See also related courses in engineering materials listed under Manufacturing Systems Engineering.)

LOWER DIVISION

AM 196. EXPERIMENTAL COURSES IN APPLIED MECHANICS (1-4)
AM 296. EXPERIMENTAL COURSES IN APPLIED MECHANICS (1-4)

UPPER DIVISION

AM 316. ENGINEERING DYNAMICS (3)
Prerequisites: CE 240 and MATH 280. Corequisite: AM 317. Vector calculus and kinematics, force, equations of motion, energy and momentum principles applied to the dynamic behavior of rigid and deformable solids. Design considerations. (Design units: 0.25)

AM 317. MECHANICS LABORATORY (1)
Prerequisites: CE 240 and MATH 280. Corequisite: AM 316. Experimental analysis of the responses of various configurations of deformable solids to static and dynamic forces. Design of mechanics experiments. One three-hour laboratory per week. (Design units: 0.25)

AM 396. EXPERIMENTAL COURSES IN APPLIED MECHANICS (1-4)

AM 400A. APPLIED MECHANICS DESIGN CLINIC I (1-3)
Prerequisite: Senior or graduate standing in Applied Mechanics or related discipline with senior or graduate program on file, acceptable academic record, and written approvals from the faculty sponsor and Department Chair. (Design units: varies)

AM 400B. APPLIED MECHANICS DESIGN CLINIC II (1-3)
Prerequisite: AM 400A. Continuation of AM 400A. (Design units: varies)

AM 410. MECHANICAL VIBRATIONS (3)
Prerequisite: AM 316. Study of linear and torsional vibratory motion. Systems of one, two, and multiple degrees of freedom under transient and steady-state excitation. Introduction to nonlinear vibration, isolation, absorption, damping, and transmission problems arising in machinery. (Design units: 0)

AM 421. AEROSTRUCTURES (3)
Prerequisite: CE 340. Introduction to basic theory of aircraft and missile structural analysis; torsion of multicell sections, elastic axis wing sections, warping of box beams, shear webs with web cut-outs; shear lag; origin of thermal stresses; external constraints; fundamental equations of uncoupled isotropic thermoelasticity and their applications in aircraft structures. (Design units: 0)

AM 425. EXPERIMENTAL STRESS ANALYSIS (1/2)
Prerequisite: CE 340. Corequisite: AM 316. Analysis of stresses and strains in various structural members under service load environments. Computer-aided engineering methods employing state-of-the-art graphical techniques will be integrated with experimental methods of analyzing stress distributions. Experimental techniques will include mechanical and electrical strain gage techniques and instrumentation, strain rosettes, photoelasticity, birefringent coatings, and brittle lacquers. Applications of computer-aided and experimental techniques to problems involving static, dynamic, and residual stress distributions. One hour of lecture and two 3-hour laboratories per week. A semester design project is required. (Design units: 1)
AM 496. EXPERIMENTAL COURSES IN APPLIED MECHANICS (1-4)

AM 499. INDEPENDENT STUDY (1-3)
Prerequisite: Senior or graduate standing in Applied Mechanics with senior or graduate program on file, and written approvals of the faculty sponsor and the Department Chair. Admission is based on evidence of ability to pursue independent study in depth and approval of a proposal submitted prior to registration in the course. (Design units: varies)

GRADUATE
(300-level courses in Applied Mechanics do not carry credit for a Master’s degree in Engineering)

AM 509. METHODS OF APPLIED MECHANICS (3)
Prerequisites: AM 316 and MATH 280. Survey of methods used in Applied Mechanics. Emphasis on the formulation and solution of problems by the application of appropriate mathematical tools. Application of differential equations, matrix techniques, Fourier series, Laplace Transforms and energy methods to vibration, stability, elasticity and structures problems. (Design units: 0)

AM 610. ADVANCED MECHANICAL VIBRATIONS (3) Prerequisite: AM 410 and CE 436. Vibration of multi-degree of freedom lumped parameter systems; formulation of equations of motion using the second law and analytical mechanics, determination of natural modes, response by the normal mode method. Emphasis on matrix formulation and computer applications. Exact solutions for continuous systems.

AM 618. THEORY OF ELASTIC STABILITY (3)
Prerequisite: Consent of instructor. Treatment of stability problems and the stability criteria. Elastic and inelastic buckling of bars, lateral buckling of beams, the stability of frameworks, buckling of rings, curved bars, arches, buckling of thin plates and thin shells, general theory of cylindrical shells, shells having the form of a surface of revolution.

AM 619. THEORY OF PLATES AND SHELLS (3)
(Formerly APPLIED MECHANICS 519)
Consent of instructor. Cylindrical bending of uniformly loaded plates, symmetrical bending of circular plates, rectangular plates with various edge conditions, plates of various shapes, membrane theory of shells, general theory of cylindrical shells, shells having the form of a surface of revolution.

AM 621. AEROSTRUCTURES II (3)
Prerequisite: AM 421. Analysis of semimonocoque aircraft structures. Stress, deflection and stability are considered for linear and nonlinear material behavior. Finite element methods are applied to continuous systems. Discussion of structural vibration loads and flutter.

AM 636. STRUCTURAL DYNAMICS (3)

AM 637. OPTIMUM STRUCTURAL DESIGN (3)
Synthesis of structural components and systems employing parametric computer solutions. Applications to weight, cost, and trade-off criteria, including practical constraints on geometry. Least weight design of cable, column and beam elements and system of elements. Introduction to computer automated design and design space concepts. Examples from aerospace and civil engineering fields.

AM 640. ENERGY AND APPROXIMATE METHODS IN ELASTOMECHANICS (3)
Prerequisite: Consent of instructor. Theory and application of energy methods in continuous systems using the calculus of variations approach. Derivation of the total potential and complementary energy expressions via virtual work principles. The study of stability configurations of mechanical systems. Development and application of Castigliano’s and Engesser’s theorems. Approximate methods using Rayleigh-Ritz, Galerkin, and Kantorovich formulations. Hamilton’s principle and its applications.

AM 642. FINITE ELEMENTS METHOD IN MECHANICS (3)
Prerequisites: AM 410 and CE 436. Study of structural mechanics problems by use of finite element method. Course will cover review of background information, formulation of the various basic elements, assembling of elements and application of the method to selected topics in structural mechanics.

AM 644. ADVANCED FINITE ELEMENT METHODS
Prerequisite: AM 642 or consent of the instructor. The course will include a brief review of the fundamentals of the finite element method; potential energy basis of finite elements; and isoperimetric formulations. Applications of general civil and aerospace structures will be considered, especially plates, general shells, vibration and stability analyses, and nonlinear problems in structural mechanics.

AM 645. NONLINEAR MECHANICS (3)

AM 649. SEMINAR IN APPLIED MECHANICS (3)
Advanced studies of topics of current interest in the field of applied mechanics. The course will consist in part of an intensive study of selected papers from current literature.

AM 695. SPECIAL TOPICS IN APPLIED MECHANICS (1-4)

AM 696. DIRECTED GRADUATE RESEARCH (3)
Prerequisite: AM 698 and approvals of the faculty adviser and either the Department Graduate Coordinator or the Department Chair.

AM 697. DIRECTED COMPREHENSIVE STUDIES (3)
CREDIT/NO CREDIT ONLY

AM 698. THESIS (6) OR GRADUATE PROJECT (3)
Prerequisite: Advancement to candidacy for the MS degree and written approvals of the faculty adviser and the Department Graduate Coordinator or the Department Chair.

AM 699. INDEPENDENT STUDY (1-3)
Prerequisite: Classified status in the MS program and written approvals from the faculty sponsor and the Department Graduate Coordinator or the Department Chair. Admission is based in part on evidence of the ability to pursue independent study or research in depth and approval of a proposal submitted prior to the time of registration.
COURSE LIST - CIVIL ENGINEERING

LOWER DIVISION
CE 196. EXPERIMENTAL COURSES IN CIVIL ENGINEERING (1-4)

CE 208. ARCHITECTURE AND STRUCTURES (2)
A non-technical treatment of the inter-relationships between form, strength, and stability. Fundamental concepts of structures. (Available for credit towards an engineering degree.)

CE 240. ENGINEERING MECHANICS I (3)
Prerequisite: MSE 227. Corequisite: MATH 280. Vector algebra, forces and moments, free body diagrams. Analyses of trusses through method of joints and sections. Implementation of fundamentals of statics to two and three dimensional structures such as dams, towers, etc. Introduction to the theory of beams. Direct and flexural stresses. Shear and moment diagrams. (Design units: 0.5)

CE 296. EXPERIMENTAL COURSES IN CIVIL ENGINEERING (1-4)

UPPER DIVISION
CE 308/L. SURVEYING (2/1)
Fundamentals of plane and geodetic surveying. Concepts of linear and angular measurements, precision, errors and corrections. Field problems in chaining, differential and profile leveling, triangulation and highway curves. Two hours lecture and one three-hour laboratory. (Design units: 0)

CE 340. ENGINEERING MECHANICS II (3)
(Formerly APPLIED MECHANICS 340)
A continuation of CE 240 for Civil, Manufacturing and Mechanical engineers. review of shear and moment diagrams. Study of deflection of beams through the use of Double Integration and Moment Area Methods. Combines Stresses and Mohr Circle. Study of Shear Centers. Torsional and temperature stresses. Stability of columns and virtual work. (Design units: 0.5)

CE 396. EXPERIMENTAL COURSES IN CIVIL ENGINEERING (1-4)

CE 400A. CIVIL ENGINEERING DESIGN CLINIC I (1/3)
Prerequisite: Senior or graduate standing in Civil Engineering or related discipline with senior or graduate program on file, acceptable academic record, and written approvals from the faculty sponsor and the Department Chair. (Design units: varies)

CE 400B. CIVIL ENGINEERING DESIGN CLINIC II (1-3)
Prerequisite: CE 400A. Continuation of CE 400A. (Design units: varies)

CE 426/L. SOIL MECHANICS (3/1)
Soil as a foundation for structures and as a material of construction. Laboratory experiments to be performed to obtain data to determine soil physical properties. Three hours of lecture and three hours of laboratory per week. (Design units: 1)

CE 433/L. TRANSPORTATION SYSTEMS (2/1)
Prerequisite: MSE 304. Principles, theories and practices in transportation engineering, administration and financing, planning surveys and data analysis; traffic flow, location and geometric design of systems, urban planning and mass transportation. Problems in planning, design and operations. Two hours of lecture and three hours of design laboratory per week. (Design units: 1)

CE 434. CONSTRUCTION PRACTICES & MATERIALS (2/1)
Prerequisite: Senior standing in engineering. An overview of engineering construction materials and practices from site preparation to final project completion. Job planning, costs, specifications, equipment and material selection, excavation, hauling, compaction, erection techniques, and other related construction practices and equipment. Two hours of lecture and three hours of laboratory per week. (Design units: 1)

CE 435. STRUCTURES I (3)
Prerequisite: CE 340. Analysis of stress, strain, and deflection of structural members. Elastic behavior of statically determinate and indeterminate trusses, beams, and frames. Influence lines, moving loads, slope deflection, and moment distribution. Application of structural principles to aerospace and civil design problems. (Design units: 0)

CE 436/L. STRUCTURES II (3/1)
Prerequisite: CE 435. Study of structural analysis and design problems using matrix methods. Complete development of the flexibility and stiffness methods of analysis. Computer applications to structural analysis and design. Three hours of lecture and three hours of laboratory per week. (Design units: 1)

CE 437. TIMBER DESIGN (3)
Prerequisite: CE 435. Elements of timber design. Timber tension members, beams, column and connections. Special systems of plywood diaphragms and shear walls for seismic loads. Temporary construction structures, formwork, shoring. Design of a timber building. Three hours of lecture. (Design units: 3)

CE 438. REINFORCED CONCRETE DESIGN (3)
Prerequisite: CE 435. Basic concepts of design of concrete structures. Applications to beams, columns, slabs, and footing. (Design units: 3)

CE 439. STRUCTURAL STEEL DESIGN (3)
Corequisite: CE 435. Basic concepts of design of steel structures. Application to tapered girders, plated beams and connections. (Design units: 3)

CE 460/L. ENGINEERING HYDROLOGY (3)
Prerequisite: ME 390. Surface Hydrology for the design of drainage, flood control, water storage and distribution systems. Topics include hydrologic cycle, meteorology, surface and ground water movement, interrelation between precipitation and runoff; hydrograph analysis, flood routing, risk assessment. Hydrologic model development and analysis using computers will be emphasized for design of storm drainage systems, flood protection, water storage and reservoir operations. (Design units: 1)

CE 487. WATER POLLUTION (3)
Corequisite: ME 490 or ME 493 recommended. Design of engineering systems for control of water pollution. Treatment of industrial wastes. Municipal waste-water treatment. (Design units: 1)

CE 488A. CIVIL ENGINEERING SENIOR DESIGN I (1/1)
(Fall only)
Prerequisites: MSE 365. The first semester of a two-semester sequence capstone design experience simulating professional practice in civil engineering. The preliminary design of a complex engineering project will be undertaken. Ethics of engineering practice, professional life-long learning requirements, written and oral engineering design project
presentations, and methods of technical problem solving will be addressed. One hour of lecture and three hours of laboratory per week. CE 488A and C 488B must be completed within the same academic year. (Design units: 1)

CE 488B. CIVIL ENGINEERING SENIOR DESIGN II (2)
(Spring only)
Prerequisite: CE 488A. Continuation of CE 488A. The final design stage of the project initiated in CE 488A will be undertaken, with emphasis on working in project teams. Six hours of laboratory per week. CE 488A and CE 488B must be completed within the same academic year. (Design units: 2)

CE 496. EXPERIMENTAL COURSES IN CIVIL ENGINEERING (1-4)

CE 499. INDEPENDENT STUDY (1-3)
Prerequisite: Senior or graduate standing in Civil Engineering with senior or graduate program on file, and written approvals of the faculty sponsor and the Department Chair. Admission is based on evidence of ability to pursue independent study in depth and approval of a proposal submitted prior to registration in the course. (Design units: varies)

GRADUATE
(300-level courses in Civil Engineering do not carry credit for a Master’s degree in Engineering)

CE 626. GEOTECHNICAL FOUNDATION DESIGN (3)

CE 638. ADVANCED REINFORCED CONCRETE DESIGN (3)
Prerequisite: CE 438. Advanced topics in concrete design, including frames and slabs.

CE 639. ADVANCED STRUCTURAL STEEL DESIGN (3)
Prerequisite: CE 439. Advanced topics in structural steel design such as frames, bridges, and buildings.

CE 641. EARTHQUAKE ENGINEERING (3)
Prerequisites: AM 410 and CE 435. Study of the earthquake problem. Topics covered include plate tectonics, seismology, dynamic response of structures, dynamics of sites and design for earthquakes.

CE 643. FOUNDATION DESIGN (3)
Prerequisite: CE 438. Design of foundations for structures. Topics include pile foundations, grade beams, continuous and mat footings and retaining walls.

CE 649. SEMINAR IN CIVIL ENGINEERING (3)
Advanced studies of topics of current interest in the field of civil engineering. The course will consist in part of an intensive study of selected papers from current literature.

CE 695. SPECIAL TOPICS IN CIVIL ENGINEERING (1-4)

CE 696. DIRECTED GRADUATE RESEARCH (3)
Prerequisite: CE 698 and approvals of the faculty adviser and either the Department Graduate Coordinator or the Department Chair.

CE 697. DIRECTED COMPREHENSIVE STUDIES (3)
CREDIT/NO CREDIT ONLY

CE 698. THESIS (6) OR GRADUATE PROJECT (3)
Prerequisite: Advancement to candidacy for the MS degree and written approvals of the faculty adviser and the Department Graduate Coordinator or the Department Chair.
PROGRAMS IN MANUFACTURING SYSTEMS ENGINEERING, AUTOMATION ENGINEERING, MATERIALS ENGINEERING, AND ENGINEERING MANAGEMENT

BACHELOR OF SCIENCE
MANUFACTURING SYSTEMS ENGINEERING

Additional information about this program and its facilities, faculty and students can be found on the World Wide Web at: http://www.ecs.csun.edu/~cme.

MISSION STATEMENT: To successfully guide our students in their:

• achievement of the educational objectives articulated for all undergraduate engineering programs at California State University, Northridge, and
• acquisition and development of the specialized knowledge and skills essential to their professional competence in the design, implementation, and management of contemporary manufacturing and production methods and systems.

THE MAJOR: Manufacturing Systems Engineers turn ideas into reality. They play key roles in the creation of almost every single product that you see or use, from clothing to computers, from automobiles to space shuttles, from frozen foods to toys. The challenges of creating and using new materials to meet future needs, the challenges of relieving human drudgery by automating dangerous and onerous production processes, the challenges of forming and leading teams of engineering experts. . . . all are examples of a few of the numerous opportunities for which the Manufacturing Systems Engineering program prepares its students.

Manufacturing Systems Engineering majors at Cal State Northridge receive a solid, broad-based education. Among the many topic areas in the basic curriculum are mathematics, physics, chemistry, computer programming, engineering materials, electrical circuits, engineering mechanics, thermodynamics, engineering economy, and numerical analysis.

In the junior year, students begin their study of the more advanced topics required to achieve professional status as a Manufacturing Systems Engineer. Courses are designed to ensure student intellectual growth in the following five state-of-the-art areas:

• the design and manufacture of products,
• the design of manufacturing systems,
• materials and manufacturing processes,
• the management of production processes and resources, and
• measurement and inferences regarding manufacturing process variables.

Individual and team assignments on projects and in laboratories provide students with numerous opportunities to develop their technical, design, leadership, communication, management, and team skills. The curriculum is designed to meet applicable ABET (Accreditation Board for Engineering and Technology) requirements.

In addition to the William F. MacDonald Laboratory, where engineering majors are introduced to computer-aided design, and the Richard M. Pickett Laboratory, where engineering majors are introduced to engineering materials, students in the Manufacturing Systems Engineering program have the opportunity to work in four state-of-the-art laboratories:

• the Automation Engineering Laboratory, with computer workstations, microcomputers, robots, computer-controlled milling machines and lathes, and the sophisticated design and graphics software and networks essential to the success of computer integrated manufacturing.
• the Manufacturing Systems Laboratory, with networked computers and peripherals, and work space for Manufacturing Systems Engineering majors and for senior design projects.
• the Advanced Corrosion Laboratory, equipped to perform detailed studies and investigations of the process of corrosion and the corrosive behavior of materials in different environments. Both undergraduate and graduate students have opportunities to participate in the numerous ongoing faculty research projects conducted in this laboratory.
• the Advanced Materials Laboratory, equipped to perform detailed studies and investigations of the structure and properties of advanced materials such as composites. Undergraduate and graduate students also have opportunities of participate in many active faculty research projects conducted in this laboratory.

In senior design, Manufacturing Systems Engineering students also use the real world as their basic laboratory, by executing real projects in local industry. Recent projects have included design and development of a CD-ROM counter, design of an improved packaging process for industrial adhesives and polymers, planning and design of a facility for electronics manufacturing, plant layout design for the production of a medical patient monitor, development of CAD and rapid prototyping models for a new product, development of a radio-controlled robot, and development of an ISO-9000 quality assurance system.

Small classes are taught by a group of dedicated professors who among them hold several outstanding teaching and faculty awards, are nationally and internationally recognized for their technical publications and work in engineering professional organizations, and have many years of actual engineering and management experience in industry to share with their students.

Manufacturing Systems Engineering students have opportunities to participate in student chapters of professional societies such as SAMPE (Society for the Advancement of Material and Process Engineering) and SME (Society of Manufacturing Engineers), as well as interdisciplinary student organizations in the College, such as Tau Beta Pi, the Society of Women Engineers, the National Society for Black Engineers, and the Society for Hispanic Professional Engineers.

CAREERS: Manufacturing Systems Engineering is the most rapidly-growing discipline area in the engineering profession. Four of the seven technology areas that have been identified for rapid development by the National Science Foundation—Advanced Manufacturing Technologies, Advanced Materials and Processing, Biotechnology, and Health Care Delivery Systems— are particularly well-suited for the talents of the Manufacturing Systems Engineer. Employment opportunities abound in the metropolitan Los Angeles area, the leading manufacturing region in the United States.

On the job, Manufacturing Systems Engineers develop new facilities, create computer models and images of products and processes, manage the production process, conduct productivity studies, test products and evaluate materials, trouble-shoot on the factory floor, and work hand-in-hand with design engineers. Because their background is broad and the types of work are so varied, these engineers find opportunities
in fields besides manufacturing, applying their skills and knowledge in such diverse environments as hospitals, entertainment firms, and consulting firms. Many Manufacturing Systems Engineers are noted for starting their own companies or pursuing Engineering Management career paths in large companies. Although most Manufacturing Systems Engineers are employed in private industry, others pursue careers with government agencies or educational institutions. The degree can be used as a stepping-stone to graduate work in engineering, law, business, or even medicine. Many Manufacturing Systems Engineering graduates return to Cal State Northridge to earn their M.S. degree in the Automation Engineering, Engineering Management, or Materials Engineering programs.

**LOWER DIVISION REQUIRED COURSES (45 Units)**

**Freshman Year**
- CHEM 101 General Chemistry I .........................................4/1
- MATH 150A Mathematical Analysis I ..................................5
- MATH 150B Mathematical Analysis II ................................5
- PHYS 220A/L Mechanics, and Laboratory ............................3/1
- COMP 106/L Computing in Engineering and Science, and Laboratory ...............................2/1
- MSE 101/L Introduction to Engineering, and Laboratory ..............1/1

**Sophomore Year**
- MATH 250 Mathematical Analysis III ..................................3
- MATH 280 Applied Differential Equations .............................3
- PHYS 220B/L Electricity & Magnetism, & Laboratory ............3/1
- CE 240 Engineering Mechanics I .......................................3
- EE 240/L Electrical Engineering Fundamentals, and Laboratory .........................................3/1
- MSE 227/L Engineering Materials, & Laboratory ..............3/1

**UPPER DIVISION REQUIRED COURSES (54 Units)**

**Junior Year**
- AM 316 Engineering Dynamics ........................................3
- AM 317 Mechanics Laboratory ........................................1
- ME 309 Numerical Analysis of Engineering Systems ..............2
- ME 370 Thermodynamics ...............................................3
- ME 390 Fluid Mechanics ...............................................3
- MSE 304 Engineering Economy ........................................3
- MSE 319/L Engineering CAD and Graphics, and Laboratory ..........1/1
- MSE 362 Engineering Statistical Applications ....................3
- MSE 365 Engineering Project and Program Administration ..........3
- MSE 408/L Principles of CAD/CAM, & Laboratory ....................2/1

**Senior Year**
- MSE 403 Facilities Planning and Design ................................3
- MSE 404 Engineering Management ....................................3
- MSE 409/L Fundamentals of CAM, and Laboratory ........2/1
- MSE 410/L Manufacturing Systems Design, and Laboratory ..........2/1
- MSE 411/L Robotics: Fundamentals and Applications, and Laboratory ............2/1
- MSE 412/L Process Design and Manufacturing Engineering, and Laboratory ................2/1
- MSE 415 Product Design ...............................................3
- MSE 427/L Mechanical Behavior of Materials, and Laboratory ..................2/1

**TOTAL UNITS IN THE MAJOR (99 Units)**

**GENERAL EDUCATION (30 Units)**

Engineering majors have modified General Education programs depending upon the year and enrollment status as a college student. Returning and transfer students should consult an advisor before planning their General Education programs. The General Education requirements of Subsections A-2 (Critical Reasoning) and A-3 (Mathematics), and all of Sections B (Natural Sciences) and E (Applied Arts and Sciences), are satisfied by required courses in the major. In addition, 3 units of the Section D (Social Sciences) General Education requirement are satisfied by the major; however, the remaining 6 units must be completed with courses in two different Social Sciences disciplines.

As part of the engineering major, students are required to take an approved concentration to provide in-depth study in some area of the Humanities or Social Sciences. This concentration may be part of a student’s General Education program. It must have 9 units with at least 6 units at the upper division.

Students must submit their proposed concentration to the Academic Advisor’s office for approval by the Associate Dean. It is strongly recommended that students plan their proposed concentration prior to the completion of more than 12 units of their General Education requirement. The proposed concentration should be submitted for approval before taking upper-division General Education courses. Forms for this purpose, together with sample concentrations, are available from the Academic Advisor’s office.

**TITLE 5 (6 UNITS)**

**TOTAL UNITS REQUIRED FOR DEGREE: 135**

**MASTER OF SCIENCE IN ENGINEERING**

**OPTION: AUTOMATION ENGINEERING**

Additional information about this program and its facilities, faculty and students can be found on the World Wide Web at: [http://www.eecs.csun.edu/~cme](http://www.eecs.csun.edu/~cme).

Offered by internationally-published faculty using exceptional facilities, Automation Engineering is an interdisciplinary program of the Department of Computer Science and the Department of Civil and Manufacturing Engineering. The primary goal of the program is the development of student expertise in the theory and application of computer-aided design and manufacturing, computer integrated manufacturing, and factory automation. Elective topics range from computer graphics to the psychology of human-computer interaction.

**SPECIAL REQUIREMENTS**

1. This program is intended primarily for students holding a B.S. degree in Engineering, Computer Science, or a related field. Prospective students who work in engineering or manufacturing environments and hold degrees in other fields should contact the Department in order to discuss any prerequisite courses with a faculty advisor.

2. The total number of 400-level units in the formal program of study for students pursuing either the Thesis
### REQUIRED COURSES (30-33 UNITS)

1. **Culminating Experience (3-6 units)**
   - MSE 698 Graduate Project ........................................ 3
   - MSE 698 Thesis ..................................................... 6

2. **Recommended Core (Select 12 units with prior approval of the faculty advisor)**
   - MSE 622 Fracture Mechanics .................................. 3
   - MSE 623 Composite Materials Design ....................... 3
   - MSE 624 Failure Analysis ......................................... 3
   - MSE 628 Applied Metallurgical Thermodynamics ....... 3
   - MSE 629 Phase Transformations ................................. 3

3. **Approved Electives (12-15 units)**
   Electives must be selected with the guidance and prior approval of the faculty advisor and the Department. 
   - MSE 601 Engineering Statistics ................................. 3
   - MSE 602 Advanced Engineering Management .............. 3
   - MSE 604 Economic Analysis of Engineering Systems ... 3
   - MSE 606 Engineering Operations Research .................. 3
   - MSE 608 Seminar in Engineering Management ............ 3

### SPECIAL REQUIREMENTS

1. Students entering the program are expected to have completed Engineering Materials (MSE 227 and MSE 227L), Engineering Mechanics I (CE 240), Thermodynamics (ME 370), and Heat Transfer (ME 375) or equivalent.
2. This program is intended primarily for students holding a B.S. degree in a closely related field of science or engineering. Prospective students whose undergraduate degree is not in a closely related field should contact the Department in order to discuss additional prerequisite courses with a faculty advisor.
3. The total number of 400-level units in the formal program of study for students pursuing either the Thesis or Project Plans may not exceed 9.

### REQUIRED COURSES (33 UNITS)

1. **Required Core (15 units):**
   - MSE 601 Engineering Statistics ................................. 3
   - MSE 602 Advanced Engineering Management .............. 3
   - MSE 604 Economic Analysis of Engineering Systems ... 3
   - MSE 606 Engineering Operations Research .................. 3
   - MSE 608 Seminar in Engineering Management ............ 3

2. **Culminating Experience (3 units):**
   - MSE 697 Comprehensive Examination ....................... 3
3. Concentration (15 units):
Concentrations may be pursued in Automation Engineering, Engineering Materials, Manufacturing Systems Engineering, Management, Quality Assurance, or in another engineering discipline.

COURSE LIST - MANUFACTURING SYSTEMS ENGINEERING

LOWER DIVISION

MSE 101. INTRODUCTION TO ENGINEERING (1/1)
Prerequisite: ELM score of 400 or greater. Introduction to the engineering profession and academic programs in Civil, Electrical, Manufacturing Systems, and Mechanical Engineering. Orientation to the University and College. Development of study, communication, problem solving, design, analytical and computing skills. Introduction to internet, word processing, spread sheet, and presentation software. Design project development and team experience. One hour of lecture-discussion and three hours of laboratory per week. (Design units: 0.5)

MSE 105: INTRODUCTION TO COMPUTER-AIDED GRAPHICS TOOLS (3)
Introduction to the use of computer-aided (CA) graphics tools. Development of skills and techniques in graphical, pictorial and rotational representation. Students will be able to work on an individual project tailored to meet the needs of their field of study, and post their project on the Web. (Available for General Education, Applied Arts and Sciences; not available for credit towards an engineering degree.)

MSE 196. EXPERIMENTAL COURSES IN MANUFACTURING SYSTEMS ENGINEERING (1-4)

MSE 227. ENGINEERING MATERIALS (3)
Prerequisites: CHEM 101, PHYS 220A, PHYS 220AL. Corequisite: MATH 150B. An introductory course in engineering materials including metals, ceramics, polymers and composites. Study of atomic and crystalline structures of materials. Application of basic principles to study of mechanical, physical, and chemical behavior of materials. Selection of materials in engineering applications based on above criteria. Design project on materials properties, selection, or application. Three hours lecture per week. (Design units: 0.25)

MSE 227L. ENGINEERING MATERIALS LABORATORY (1)
Prerequisites: CHEM 101, PHYS 220A, PHYS 220AL, MATH 150A. Corequisites: MATH 150B, MSE 227. An introductory laboratory course on engineering materials and their properties. Includes experiments in mechanical properties, heat treatment, metallurgy, corrosion properties and x-ray diffraction. Course culminates in a special project where students identify, design, and perform an experiment of their choosing. One 3-hour lab per week. (Design units: 0.25)

MSE 296. EXPERIMENTAL COURSES IN MANUFACTURING SYSTEMS ENGINEERING (1-4)

UPPER DIVISION

MSE 304. ENGINEERING ECONOMY (3)
Prerequisite: MATH 150B. The systematic evaluation of the economic benefits and costs of projects involving engineering design and analysis. Economic decision-making in an environment of limited resources and uncertainty. Present economy, the economy of multi-year projects, selection among competing alternatives, sensitivity of outcomes to input parameters, before- and after-tax analyses, replacement economy, inflation, and estimation of future events. (Design units: 0.5)

MSE 319/L. ENGINEERING CAD AND GRAPHICS (1/1) (Formerly MSE 107)
Prerequisites: MATH 250 and MSE 227. Development of concepts and skills in engineering graphics, including reading, interpretation and preparation of working drawings. Orthographic and isometric representations, auxiliary and sectional views, dimensioning and tolerances. Development of concepts and skills in computer-aided design (CAD). A project involving the creation of CAD drawings for the design of an assembly is included. One hour of lecture and three hours of laboratory per week. (Design units: 0.5)

MSE 362. ENGINEERING STATISTICAL APPLICATIONS (3)
Prerequisites: Math 250 and CE 240. Development and application of pertinent probabilistic and statistical techniques and methods for selected classes of engineering design and analysis problems. Applications to product and structural design, engineering experimentation, manufacturing processes and seismic analysis, and the reliability of structural and other engineering systems. (Design units: 0)

MSE 365. ENGINEERING PROJECT AND PROGRAM ADMINISTRATION (3)
Prerequisite: MSE 319 and MSE 362. Project and program technical, oversight, and ethical requirements in engineering design, development, and implementation. Creation and oversight of Statements of Work and Work Breakdown Systems for large-scale engineering projects. Contracts and subcontracts; contracting and subcontracting processes, including bidding and bid assessment. Introduction to typical project and program administration methods and techniques. Selected private and public sector case studies. (Design units: 0.5)

MSE 392. UNDERGRADUATE RESEARCH PROGRAM (3)
Prerequisite: Enrollment in this course is restricted to those students selected to participate in the Undergraduate Research program. This course provides faculty mentoring and guidance to selected undergraduate students in the development of their research skills. The course includes a combination of lecture-discussion, laboratory experimental research, literature research, field work, research presentations, and other learning experiences. This course may be repeated for credit. (Design units: varies)

MSE 396. EXPERIMENTAL COURSES IN MANUFACTURING SYSTEMS ENGINEERING (1-4)

MSE 400A. MANUFACTURING SYSTEMS ENGINEERING DESIGN CLINIC I (1-3)
Prerequisite: Senior or graduate standing in Manufacturing Systems Engineering or related discipline, acceptable academic record, and written approvals from the faculty sponsor and the Department Chair. A group design experience involving teams of students and faculty working on the solution of engineering design problems submitted by industry and governmental agencies. (Design units: varies)

MSE 400B. MANUFACTURING SYSTEMS ENGINEERING DESIGN CLINIC II (1-3)
Prerequisite: MSE 400A. Continuation of MSE 400A. (Design units: varies)
MSE 403. FACILITIES PLANNING AND DESIGN (3)
Prerequisites: MSE 408/L or equivalent; or graduate standing. Basic concepts in the planning and design of manufacturing facilities; feasibility studies; product analysis; manufacturing processes; process design and equipment selection; plant engineering; location and layout; materials handling systems. (Design units: 1.5)

MSE 404. ENGINEERING MANAGEMENT (3)
Prerequisite: Consent of instructor. An introduction to management of engineering and technology. Principles and applications to effectively manage technical projects, people, budgets and schedules. Organizing and motivating people, and controlling activities. Managing research, development, design and production activities. Directing projects, improving quality, and engineering ethics. (Design units: 0.5)

MSE 408/L. PRINCIPLES OF CAD/CAM (2/1)
Prerequisite: Consent of instructor. An overview of Computer-Aided Design, Drafting, and Manufacturing. Topics include hardware of computer graphics and CAD/CAM/CAE, 2- and 3-D geometric modeling, surface and solid modeling, data exchange standards, survey and evaluation of commercial CAD/CAM systems, finite element modeling and analysis, group technology, numerical control, robotics, flexible manufacturing systems, Computer Integrated Manufacturing, and application areas. Two hours lecture and one 3-hour laboratory. (Design units: 1.5)

MSE 409/L. FUNDAMENTALS OF COMPUTER-AIDED MANUFACTURING (2/1)
Prerequisites: MSE 408/L, MSE 412/L, or instructor's permission. An introduction to computer-aided manufacturing. Topics include basic issues in CAM and CIM; fixed, programmable, and flexible automation; introduction to numerical control technology; manual NC programming; the APT language; post-processing; graphical NC programming; NC programming with CAD/CAM systems; multi-axis part programming; and application areas. Two hours lecture and one 3-hour laboratory. (Same as COMP 409/L) (Design units: 1.5)

MSE 410/L. MANUFACTURING SYSTEMS DESIGN (2/1)
(Formerly MSE 510/L)
Prerequisite: MSE 408/L or consent of instructor. Design and analysis of manufacturing automation systems, including fixed, flexible, and programmable automation; flexible manufacturing cells; modeling and simulation of manufacturing systems; CAD/CAM software integration; shop floor hardware and software; and order scheduling and processing. Two hours of lecture, and one 3-hour laboratory per week. (Design units: 2.5)

MSE 411/L. ROBOTICS: FUNDAMENTALS AND APPLICATIONS (2/1) (formerly MSE 511/L)
Prerequisite: Consent of instructor. Introduction to the fundamentals of robotics and robot applications. Topics include robot anatomy, control system components, end effectors, sensors, lead-thru and off-line programming, work cell design and control, graphical simulation, material transfer, processing operations, pallets and feeders, designing for robotic fabrication, societal issues, and the role of robotics in Computer Integrated Manufacturing. Two hours of lecture and one 3-hour laboratory per week. (Same as COMP 511/L) (Design units: 2.0)

MSE 412/L. PROCESS DESIGN AND MANUFACTURING ENGINEERING (2/1)
Prerequisites: MSE 365; or graduate standing. Industrial manufacturing processes for high quality and cost-effective production. A study of metals, plastics and electronic manufacturing. Includes material forming, removal, casting, joining, heat treating, finishing and coating, assembly methods, inspection, tool engineering, reading blueprints, nondestructive tests and evaluation. Emphasis on capabilities, limitations, and economics of alternative methods. A project in process design is required. Two hours of lecture and one 3-hour laboratory. (Design units: 1.5)

MSE 415. PRODUCT DESIGN (3)
Prerequisite: MSE 412/L or graduate standing. Engineering principles and practices of design for producibility. Applications of process design for manufacturing engineering. Approaches to design for manufacture (DFM) and design for assembly (DFA). (Design units: 2.0)

MSE 427/L. MECHANICAL BEHAVIOR OF MATERIALS (2/1)
Prerequisite: MSE 227 and MSE 227L. A survey of relationships between mechanical behavior and materials structure. Elements of creep, fracture, and fatigue of metals, ceramics, and composites. Introduction to applied fracture mechanics and environmentally-assisted cracking laboratory methods for evaluating structural property relationships, fracture toughness measurements and failure analysis using Scanning Electron Microscopy. Two hours of lecture and one 3-hour laboratory per week. (Design units: 1.0)

MSE 428/L. PHYSICAL METALLURGY (2/1)
Prerequisites: MSE 227 and MSE 227L. Study of the principles governing the selection, treatment, and use of metals and alloys. Introduction to crystal structures, their imperfections and the effect on diffusion, phase transformations, and mechanical properties. Design Project in both lecture and laboratory. Laboratory practice in metallographic studies and heat treatment of metals and alloys. Two hours of lecture and one 3-hour laboratory per week. (Design units: 1.0)

MSE 464. MANUFACTURING RESOURCE PLANNING (3)
Prerequisites: MSCI 306 or MSE 304. Planning and control systems for the management of short and intermediate range decisions encountered in production and operations. Topics include manufacturing resource planning (MRP II) as well as forecasting, production planning and scheduling, inventory management, MRP, capacity planning, just-in-time, and other current topics. The course will include an in-depth case study using integrated manufacturing planning and control software. Same as MSCI 464. (Design units: 1.0)

MSE 488A. MANUFACTURING SYSTEMS ENGINEERING SENIOR DESIGN I (1/1) (Fall Only)
Prerequisites: MSE 365 and MSE 408/L. The first semester of a two-semester sequence capstone design experience simulating professional practice in manufacturing systems engineering. The preliminary design of a complex engineering project will be undertaken. Ethics of engineering practice, professional life-long learning requirements, written and oral engineering design project presentations, and methods of technical problem solving will be addressed. One hour of lecture and three hours of laboratory per week. MSE 488A and MSE 488B must be completed within the same academic year. (Design units: 2.0)
MSE 488B. MANUFACTURING SYSTEMS ENGINEERING SENIOR DESIGN II (2) (Spring Only)
Prerequisite: MSE 488A. Continuation MSE 488A. The final design stage of the project initiated in MSE 488A will be undertaken, with emphasis on working in project teams. Six hours of laboratory per week. MSE 488A and MSE 488B must be completed within the same academic year. (Design units: 2.0)

MSE 496. EXPERIMENTAL COURSES IN MANUFACTURING SYSTEMS ENGINEERING (1-4)

MSE 499. INDEPENDENT STUDY (1-3)
Prerequisite: Senior or graduate standing in Manufacturing Systems Engineering, and written approvals of the faculty sponsor and the Department Chair. Admission is based on evidence of ability to pursue independent study in depth and approval of a proposal submitted prior to registration in the course. (Design units: varies)

MSE 513. QUALITY ENGINEERING (3)
Prerequisite: Consent of instructor. A study of the methods of measuring quality in manufacturing products including metrology, radiographic, ultrasonic, surface examination, and acoustic emission. The capability limitations and economics of the methods of gathering and interpreting data for measurement of quality. Reliability engineering topics introduced. Design project for quality engineering. (Design units: 1.5)

MSE 514. ENGINEERING RELIABILITY & MAINTAINABILITY (3)
(Formerly MSE 414.)
Prerequisite: Consent of instructor. Reliability and maintainability as design parameters. Assessing and verifying design reliability, maintainability, and failure modes. Applications of reliability design methodology. (Design units: 1.0)

MSE 531. CORROSION (3)
Prerequisite: Consent of instructor. Corrosion and oxidation, thermodynamics of corrosion, aqueous corrosion, oxidation, kinetics of corrosion, rates of reaction, Wagner Theory of Oxidation, defect chemistry and oxidation, corrosion mechanisms, corrosion prevention. (Design units: 0.5)

MSE 550. THIN FILM TECHNOLOGY (3)
Prerequisite: Consent of the instructor. The basic processes for the deposition of films and coatings. Physical vapor deposition (PVD); processes consisting of evaporation, sputtering and ion plating, chemical vapor deposition (CVD) and plasma-assisted chemical vapor deposition (PAVCD); electrodeposition and electroless plating. Thermal spraying, plasma spraying, and detonation gun technologies. The scientific background, basic processes, as well as relationships, and applications of each process will be discussed. (Design units: 0.5)

MSE 601. ENGINEERING STATISTICS (3)
Prerequisite: Consent of instructor. Application of statistical estimation and hypothesis testing methods to selected problems in engineering, such as quality control, acceptance sampling, design of engineering experiments and determining statistical validity of engineering data.

MSE 602. ADVANCED ENGINEERING MANAGEMENT (3)
Prerequisite: MSE 404 or equivalent. Seminar on special problems and current topics in starting, organizing, and administering engineering and technology research, design, and production. Consideration of technology and innovation, technological strategy and forecasting, technical entrepreneurship and intrapreneurship, evolving organizations, capitalization, and patents and trademarks.

MSE 603. COMPUTER INTEGRATED MANUFACTURING (3)
Prerequisite: MSE 408/L or consent of instructor. The integration of CAD/CAM, information management, and communication technologies in manufacturing environments. This course provides advanced instruction in design and implementation of integrated CAD/CAM, robotics, and flexible manufacturing systems, with particular attention toward bridging information gaps. Topics include analysis of product definition processes, communication in manufacturing environments, technological and organization requisites for CIM, manufacturing requirements planning, just-in-time manufacturing, and future directions for factory automation.

MSE 604. ECONOMIC ANALYSES OF ENGINEERING (3)
Prerequisite: Consent of instructor. Evaluation of economic feasibility of large scale engineering systems. Projections of future economic environment, growth of demand, planned expansion of the system, use of resources, levels of confidence in projections, risk evaluation and profitability analysis.

MSE 606AB. ENGINEERING OPERATIONS RESEARCH (3-3)
Prerequisite: Consent of the instructor. An integrated presentation of systems methodology and mathematical bases for decision in industry. Inventory, allocation, queuing, sequencing, network, replacement, search, and competitive models. An overview of system engineering including its relationships to and dependence on other scientific areas. Selected approaches in systems science, such as linear, integer, dynamic and non-linear programming, will be addressed. Emphasis will be placed on the development and formulation of practical solutions to real-world problems.

MSE 607ABC. SEMINAR IN INDUSTRIAL AND SYSTEMS ENGINEERING (3-3-3)
Prerequisite: Consent of instructor. Advanced studies of topics of current interest in the field of Industrial and Systems Engineering. The course will consist in part of an intensive study of selected papers from current literature.

MSE 608ABC. SEMINAR IN ENGINEERING MANAGEMENT (3-3-3)
Prerequisite: Consent of instructor. Advanced studies of topics of current interest in the field of Engineering Management. The course will consist in part of an intensive study of selected papers from current literature.

MSE 609. ADVANCED TOPICS IN CAD/CAM (3)
Prerequisites: MSE 408 and either MSE 603 or COMP 567, or equivalent with instructor's permission. Areas of current interest in Computer-Aided Design and Manufacturing.
Topics include computer graphics software and hardware, mathematical bases of geometric modeling, simultaneous engineering, manufacturability analysis, feature-based processing, and database management for manufacturing environments. Same as Comp 609.

MSE 614. APPLICATIONS OF ARTIFICIAL INTELLIGENCE/EXPERT SYSTEMS TO CAD/CAM (3)

MSE 617. SEMINAR IN QUALITY ASSURANCE (3)
Prerequisite: Consent of instructor. Discussion and analysis of current theory, practices, and state-of-the-art developments applicable to quality assurance.

MSE 622. FRACTURE MECHANICS (3)
Prerequisite: Consent of instructor. Introduction to linear-elastic fracture mechanics and its application to design. Analytical and numerical methods for the calculation of crack tip stress intensity. Engineering applications to the design of structures and pressure vessels. Fatigue analysis methods.

MSE 623. COMPOSITE MATERIAL DESIGN (3)

MSE 624. FAILURE ANALYSIS (3)
Prerequisites: MSE 427 or consent of instructor. Modes, mechanisms, models and theories of materials failures. Environmental-assisted cracking and fatigue of materials. Analyses of engineering failures. Emphasis will be placed on the development and formulation of approaches to materials selection based on probable failure modes.

MSE 628. APPLIED METALLURGICAL THERMODYNAMICS (3)
Prerequisites: MSE 428 and ME 375 or equivalent. The application of thermodynamic laws to metallic alloys; solid solutions; alloying and solubility in solids, metal/liquid and metal/gas interactions; electrochemical processes in metals; defect structure of metals and metallic alloys; applications.

MSE 629. PHASE TRANSFORMATIONS (3)
Prerequisite: Consent of instructor. Thermodynamics of phase transformations, kinetics of reactions, diffusion, crystal growth, sintering, recovery, recrystallization and grain growth, solid state reactions, Wagner theory, transformations in superalloys.

MSE 630. SEMICONDUCTOR MATERIALS (3)
Prerequisite: Consent of instructor. Semiconductors versus metals and insulators; electron energies in solids; preparation of semiconductor materials; purification, crystal growth and doping; intrinsic and extrinsic semiconductors; semiconductor devices; superconductivity and superconducting materials; photo effects with semiconductors; photovoltaic effect on solar cells; imperfections in semiconductors.
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
Chair: Nagwa Bekir

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE
Department Office: EN 2409
Phone: (818) 677-2190
Office Manager: Jamie Milteer
Website: http://www.ecs.csun.edu/~ece

GRADUATE COORDINATOR: George Law, (818) 677-2560


DEPARTMENT PROGRAMS
The Electrical and Computer Engineering (ECE) Department at Cal State Northridge offers the following programs:

Bachelor of Science in Electrical Engineering
Bachelor of Science in Computer Engineering
M.S. Engineering with Option in Electrical Engineering

THE MAJOR: “Nowadays the world is lit by lightning,” the playwright Tennessee Williams wrote. But electrical and computer engineers prove him wrong every day.

From city lights to satellites, from semiconductors to telephone switching systems to audio equipment, the work depends on electricity and the engineers who design and develop ways to harness its power.

Electrical Engineering majors at Cal State Northridge receive a solid, broad-based education. Among the many topic areas in the basic curriculum are mathematics, physics, chemistry, computer programming, engineering materials, electrical circuits, engineering mechanics, thermodynamics, engineering economy, and numerical analysis. At the Senior level, students are required to take an approved concentration in one of the electrical engineering options: biomedical engineering, communications, digital systems design, control systems, electronics, microwave and antenna engineering, and power systems.

(Note: The digital systems design option in the EE program emphasizes hardware; those interested in software design as well should consider the Computer Engineering degree.)

The Computer Engineering (CompE) program bridges the curriculum gap between Computer Science and Electrical Engineering. Computer Engineers deal with the hardware and software aspects of computer system design and development. The CompE curriculum contains components of both the Computer Science and Electrical Engineering programs.

Computer Engineering majors receive a broad knowledge in the basic curriculum. Among the many topics are: mathematics, physics, chemistry, biology, electrical circuits, engineering economy, algorithms, programming, and computer organization. Computer Engineering students will take coursework in a number of areas (i.e. computer architecture, digital design) from both the software and hardware points of view, allowing them to get a broader, more complete exposure to the subject. Additionally, these curricula will be unified in the one year senior design project course bringing together the existing Electrical Engineering and Computer Science programs.

The ECE department has 16 labs associated with its EE classes. In the labs, students work alongside professors who may be designing medical instrumentation for health care, designing microcontroller based applications, developing pager and satellite communications systems, or working on innovations in electrical power systems.

All students in the EE or CompE programs take part in the department’s senior design program, modeled on industry work groups that students will encounter on the job. Like professional engineers, students design and develop a project, from conception through manufacture. In the process, they gain valuable experience in working as a team, dealing with personalities as well as technical areas.

Senior design projects have included a national intercollegiate competition in designing a micromouse and training it to run through a 10’ square maze. Other projects include developing a sophisticated stereo system, control system for satellite tracking antenna, television tuner, fabrication of hybrid circuit, etc.

The School of Engineering and Computer Science offers an Honors Cooperative Program that allows juniors and seniors to complete their studies while holding down jobs as engineers. A student chapter of the national professional society, the Institute for Electrical and Electronics Engineers, meets on campus. Other active organizations include Tau Beta Pi, the student engineering society; the Society for Women Engineers; and Hispanic Professional Engineers.

The Electrical Engineering program is accredited by ABET (Accreditation Board for Engineering and Technology.)

CAREERS: The department’s practical approach to engineering offers hand’s on design experience as well as theoretical knowledge. That’s an advantage on the job because graduates actually have experience in constructing projects as well as designing them.

Students who enjoy using math and science creatively to solve real-world problems will find rewarding careers as electrical and computer engineers.

Careers in Electrical Engineering
Graduates in Electrical Engineering design and build communications systems, information processing, entertainment devices, medical diagnosis equipment, robotics control, navigation, and traffic control. Graduates can find work in virtually every industry. Among the major employers are electronic manufacturing firms, communications companies, the entertainment industry, public utilities, oil companies, laboratories, transportation companies, and chemical plants. Some graduates pursue professions as patent attorneys, technical writers, consultants, teachers, or technical sales representatives. This program not only prepares students to enter the work force, but also to enter graduate school to pursue an area of specialization.

According to the bureau of Labor Statistics, from 1996 to 2006 the number of jobs for electrical engineers is predicted to increase by 28.5%. Furthermore, in California, the State Employment Development Department predicts an increase in jobs for electrical engineers of 45.9% during the same period.

Careers in Computer Engineering
Computer engineering graduates will be effective engineering designers and problem solvers based upon the strong theoretical foundation in both the hardware and software aspects of computers and related systems.
They will have expertise in design, construction, and operation of computer systems. Computer engineering graduates have the potential to work in virtually every industry. Among the major areas of potential are the computer industry, communications, microelectronics, control systems, robotics, radar, instrumentation, innovative distributed systems, computer networking, and entertainment industry applications. Computer Engineers are employed in all sectors: manufacturing, services, and government. The program prepares the graduate for professional practice as well as for graduate studies. The 1998-99 Occupational Outlook Handbook published by the Bureau of Labor Statistics (BLS), U.S. Department of Labor, states that “Computer Engineering is expected to be one of the top three fastest growing occupations through the year 2006.” According to the BLS, from 1996 to 2006, the number of jobs for computer engineers is expected to increase 110.4% nationwide. Computer Engineering is predicted to be the fastest growing field of engineering during this period with over 230,000 new jobs becoming available. Additionally, Computer Engineering is predicted to be the second fastest growing occupation with respect to all other occupations nationwide. In California, a report by the Employment Development Department predicts the growth in jobs for Computer Engineers to be 107.5% in the period from 1996 to 2006. This is the largest predicted growth of all occupations in the state.

HIGH SCHOOL PREPARATION
It must be emphasized that this program is based upon an expectation of adequate high school preparation in science, mathematics, and English. High school courses should include algebra, plane geometry, trigonometry, chemistry, or physics (both desirable), and four years of English. Students who have not had an adequate background of pre-engineering work in high school may be required to take some additional work in their first year and may not be able to complete an engineering program in eight semesters. Entering beginning engineering students must take the Entry Level Mathematics Test and the Mathematics, Chemistry, and English Placement Tests before registration in basic courses will be permitted.

PREREGISTRATION TESTING REQUIREMENTS
The campus requires most beginning students to take the Entry Level Mathematics Exam (ELM) and the English Placement Test (EPT) prior to enrolling in their courses. Refer to the section of this catalog entitled “Appendices-Admission” for further details on these exams. In addition to these general university requirements, students in any of the engineering programs may also need the following exams:

1. Mathematics Placements Test (MPT) is required prior to enrollment in Math 150A. Students who have passed or are exempt from the ELM should take this exam prior to enrolling in their classes so they may be placed in the appropriate mathematics course. A minimum score of 24 is required to enroll in Math 150A. Students with scores of 3, 4, or 5 on the AP Calculus AB or BC are exempt from the MPT. Students who have passed the ELM but receive a MPT score of 23 or less should enroll in Math 105.

2. Chemistry Placement Test (CPT) is required with a score of 40 prior to enrolling in Chemistry 101. Students who do not receive this score must receive a grade of “C” or better in Chemistry 105 before taking Chemistry 101.

TRANSFER REQUIREMENTS
All degree programs in engineering accommodate students beginning as freshmen or as transfer students. Transfer students should have completed lower division writing, mathematics, physics, and chemistry courses. Courses that are transferred into the major are reviewed to ensure that they satisfy the same requirements as courses at Northridge. Courses transferred into the engineering major must have been completed with a grade of “C” or better.

SPECIAL GRADE REQUIREMENTS
No grade lower than a “C” will be accepted for transfer classes from another institution to the Electrical Engineering major requirements. No CSUN grade lower than a “C-” will be accepted as satisfactory for courses in the major. More stringent prerequisite requirements may apply to some courses.

REQUIREMENTS FOR THE B.S. DEGREE IN ELECTRICAL ENGINEERING
The B.S. in Electrical Engineering program requires a minimum of 135 units total, including general education and Title V requirements of 36 units, an Electrical Engineering core of 81, and a minimum of 18 units of approved electives.

Electrical Engineering majors must complete a minimum of 39 semester units of upper division engineering courses, in residency, including Senior Design Project I and II. Additional information about this program and its facilities, faculty and students can be found on the world wide web at: http://www.eecs.csun.edu/~ece

LOWER DIVISION REQUIRED COURSES (44 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHEM 101/L</td>
<td>General Chemistry and Lab</td>
<td>4/1</td>
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<tr>
<td>COMP 106/L</td>
<td>Computing in Engineering and Science &amp; Lab</td>
<td>2/1</td>
</tr>
<tr>
<td>MATH 150A</td>
<td>Mathematical Analysis I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 150B</td>
<td>Mathematical Analysis II</td>
<td>5</td>
</tr>
<tr>
<td>MSE 101/L</td>
<td>Introduction to Engineering</td>
<td>1/1</td>
</tr>
<tr>
<td>PHYS 220A/L</td>
<td>Mechanics and Laboratory</td>
<td>3/1</td>
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Sophomore Year

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CE 240</td>
<td>Statics and Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EE 240/L</td>
<td>Electrical Engineering Fundamentals and Lab</td>
<td>3/1</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Mathematical Analysis III</td>
<td>3</td>
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<tr>
<td>MATH 280</td>
<td>Applied Differential Equations</td>
<td>3</td>
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<tr>
<td>MSE 227</td>
<td>Engineering Materials and Laboratory</td>
<td>3</td>
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<tr>
<td>PHYS 220B/L</td>
<td>Electricity &amp; Magnetism and Laboratory</td>
<td>3/1</td>
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UPPER DIVISION REQUIRED COURSES (37 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 280</td>
<td>Numerical Analysis of Engineering Systems</td>
<td>2</td>
</tr>
<tr>
<td>EE 320/L</td>
<td>Theory of Digital Systems &amp; Laboratory</td>
<td>3/1</td>
</tr>
<tr>
<td>EE 340/L</td>
<td>Electronics I and Laboratory</td>
<td>3/1</td>
</tr>
<tr>
<td>EE 350</td>
<td>Linear Systems I</td>
<td>3</td>
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<tr>
<td>EE 351</td>
<td>Linear Systems II</td>
<td>3</td>
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Junior Year

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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 280</td>
<td>Numerical Analysis of Engineering Systems</td>
<td>2</td>
</tr>
<tr>
<td>EE 320/L</td>
<td>Theory of Digital Systems &amp; Laboratory</td>
<td>3/1</td>
</tr>
<tr>
<td>EE 340/L</td>
<td>Electronics I and Laboratory</td>
<td>3/1</td>
</tr>
<tr>
<td>EE 350</td>
<td>Linear Systems I</td>
<td>3</td>
</tr>
<tr>
<td>EE 351</td>
<td>Linear Systems II</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: All students must pass the English Placement Test with a score of 151 or above before enrolling in any 200-level engineering courses.
Select one of the following 3 unit courses:
- EE 455 Mathematical Models in EE .................3
- ME 370 Thermodynamics ........................................3
- ME 375 Heat-Transfer I ............................................3

**Senior Year (12 Units)**
The senior core consists of a set of courses considered essential for all students who are seeking a career in electrical engineering. Note: Students can take EE 470L and/or EE 480L as part of their senior electives. All senior electives must be approved by a faculty advisor and the Department Chair, or a designee. A number of examples of suggested senior elective packages in the EE degree are available in the department office. Other programs are also possible and may be developed with an advisor.

**UPPER DIVISION ELECTIVES (18 Units)**
The senior elective packages must contain at least 18 senior level department courses and labs which are well balanced in both design and analysis. One of the electives must be either EE 440/L (4) or EE 442/L (4). Students will be required to take the corresponding labs for every elective that offers a lab. For each lab taken, the corresponding lecture course is a corequisite.

**TOTAL UNITS IN THE MAJOR (99 Units)**
Engineering majors have modified general education programs depending upon the year and enrollment status as a college student. Returning and transfer students should consult an advisor before planning their general education programs. The General Education requirements of Subsections A-2 and A-3, and all of Sections B and E, are satisfied by required courses in the major. Engineering students are only required to take 6 units of General Education course work in Section D (two different disciplines).

As part of the engineering major, students are required to take an approved concentration to provide in-depth study in some area of the Humanities or Social Sciences. This concentration may be part of a student’s General Education program. It must have 9 units with at least 6 units in upper division. Students must submit their proposed concentration to the Academic Advisor’s office for approval by the Associate Dean. It is strongly recommended that students plan their proposed concentration prior to the completion of more than 12 units of their General Education requirement. The proposed concentration should be submitted for approval before taking upper-division General Education courses. Forms for this purpose, together with sample concentrations, are available from the Academic Advisor’s office.

**TITLE 5 (6 Units)**

**TOTAL UNITS REQUIRED FOR DEGREE IN ELECTRICAL ENGINEERING: 135**

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**Requirements for the B.S. Degree in Computer Engineering**

Note: Pending approval, the Computer Engineering Degree Program will begin fall 2000. Please contact the department for program status.

The B.S. in Computer Engineering program requires a minimum of 133 units total, including general education and Title V requirements of 36 units, a Computer Engineering core of 91 units, and a minimum of 6 units of an approved elective.

Computer Engineering majors must complete a minimum of 30 semester units of upper division computer engineering courses in residency, including senior design project I and II.

Additional information about this program and its facilities, faculty and students can be found on the world wide web at: [http://www.ecs.csun.edu/~ece](http://www.ecs.csun.edu/~ece)

**LOWER DIVISION REQUIRED COURSES (53-55 UNITS)**

**Freshman Year**

**NOTE:** All students must pass the English Placement Test with a score of 151 or higher to enroll in any 200-level course in the major.

- MATH 150A Mathematical Analysis I .......................5
- MATH 150B Mathematical Analysis II .......................5
- PHYSICS 220A/L Mechanics and Laboratory................3/1
- COMP 110/L Introduction to Algorithms and Programming and Laboratory ................3/1
- COMP 122 Introduction to Computer Systems ..........3
- COMP 182/L Data Structures and Program Design ..........3/1

**Sophomore Year**

- MATH 250 Mathematical Analysis III ...................3
- MATH 280 Applied Differential Equations .............3
- PHYSICS 220B/L Electricity and Magnetism and Laboratory...............3/1
- COMP 222 Computer Organization ......................3
- COMP 287 Advanced Data Structures and Lab ..........3
- EE 240/L Electrical Engineering Fundamentals ........3/1

**MATH AND SCIENCE ELECTIVES (8-10 UNITS)**

Select 8 units from the following list with corresponding lab if one exists:

- Biology 106/106L, 107/107L
- Chemistry 101/101L, 102/102L
- Physics 220C/220CL, 220D
- Math 262, 326

**UPPER DIVISION REQUIRED COURSES (38 UNITS)**

Note: All students must complete lower division writing requirements with grade of “C” or better before enrolling in any 300-level course in the major and must attempt the Upper Division Writing Proficiency Examination before enrolling in any 400-level course in the major.

**Junior Year**

- COMP 322/L System Architecture & Laboratory ....3/1
- EE 320/L Theory of Digital Systems & Laboratory ....3/1
- EE 340/L Electronics I & Laboratory ..................3/1
- EE 350 Linear Systems I ..................................3
- MSE 304 Engineering Economy .........................3
Senior Year
The senior year must include a 'capstone' design experience and additional courses with design content so that the student's total engineering program contains at least one semester of engineering design. This one semester of engineering design must be taken in residency. An advisor and the Department Chair must approve all senior year electives.

EE 422  Design of Digital Computers .................3
EE 425/L  Microprocessor Systems & Laboratory ....3/1
EE 420  Digital Systems Design with Programmable Logic .........................3
EE 442/L  Digital Electronics & Laboratory............3/1
EE 450  Probabilistic Systems in Electrical Engineering Design & Analysis ..........3
EE 492/493  Senior Design Project I & II .................3

UPPER DIVISION ELECTIVES (6-8 UNITS)
Select 6 units from the following:
COMP 380  Intro to Software Engineering ...............3
COMP 429  Computer Network Software ................3
COMP 529  Advanced Network Topics ....................3
EE 443/L  Pulse and Waveshaping Circuit Design and Laboratory .................3/1
EE 546  Very Large Scale Integrated Circuit Design ....3
EE 595/L  Verilog HDL: Modeling, Simulation and Synthesis and Laboratory ...........3/1

(Note: Some elective courses have prerequisites that are not part of the required program. Other courses may be selected with the approval of the ECE Department Chair.)

TOTAL UNITS IN THE MAJOR (97 UNITS)

GENERAL EDUCATION (30 UNITS)
Engineering majors have modified general education programs depending upon the year and enrollment status as a college student. Returning and transfer students should consult an advisor before planning their general education programs.

The General Education requirements of Subsections A-2 and A-3, and all of Sections B and E, are satisfied by required courses in the major. Engineering students are only required to take 6 units of General Education course work in Section D (two different disciplines).

As part of the engineering major, students are required to take an approved concentration to provide in-depth study in some area of the Humanities or Social sciences. This concentration may be part of a student's General Education program. It must have 9 units with at least 6 units in upper division.

Students must submit their proposed concentration to the Academic Advisor's office for approval by the Associate Dean. It is strongly recommended that students plan their proposed concentration prior to the completion of more than 12 units of their General Education requirement. The proposed concentration should be submitted for approval before taking upper-division General Education courses.

Forms for this purpose, together with sample concentrations, are available from the Academic Advisor's Office.

TITLE 5 (6 UNITS)
TOTAL UNITS REQUIRED FOR DEGREE IN COMPUTER ENGINEERING (133)

REQUIREMENTS FOR THE M.S. DEGREE IN ENGINEERING OPTION:
ELECTRICAL ENGINEERING

REQUIREMENT FOR ADMISSION TO THE PROGRAM

1. A bachelors' degree in a technical field (i.e. Engineering, Physics, Mathematics from an accredited university or college), with overall GPA of at least 2.75.
2. Have at least a 2.7 undergraduate grade point average in the last sixty semester units or ninety quarter units attempted.

ADMISSION PROCEDURE

Application forms may be requested from the ECE department and should be returned to the university Office of Admissions and Records. The Code number for the ECE major is 09091. Application deadlines for admission are set by the university Office of Admissions and Records.

All applicants, regardless of citizenship, whose preparatory education was principally in a language other than English must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).

Continuing students in either Post baccalaureate or Graduate status may change their objective and seek admission to a MS in Engineering by filling out a change of objective form that can be obtained from the Office of Admissions and Records.

It is the student's responsibility to be aware of all university regulations and restrictions such as:
1. No more than 9 units of transfer or extension work
2. 12-unit rule for classification
3. Probation and Disqualification
4. Repeat of courses rules
5. Advancement to Candidacy
6. Academic leave
7. 7-years time limit for the completion of the degree

For details on the above, students are advised to meet with the ECE Graduate Coordinator.

FOR ADVANCEMENT TO CLASSIFIED GRADUATE STATUS, CANDIDATE MUST:

1. Fulfill University requirements for classified status.
2. Complete prerequisite courses with 3.0 GPA or higher.
3. Submit a tentative program of graduate study to the ECE graduate coordinator.
4. Obtain the approval of the College of Engineering and Computer Science.

FOR THE DEGREE:

1. Completion of 30-33 units under either the Thesis Plan, the Project Plan, or the Comprehensive Exam Plan:
   A. Thesis Plan
      a) 24 units of course work applicable to the M.S. degree, of which at least 15 units must be EE courses at the 500/600-level or above.
      b) 6 units of EE 698 (Thesis), and successful oral defense of Thesis before the thesis committee.
   B. Project Plan
      a) 27 units of course work applicable to the M.S. degree, of which at least 18 units must be EE courses at the 500/600-level or above.
      b) 3 units of EE 698 (Graduate Project) culminating in a comprehensive report.
   C. Comprehensive Exam Plan
      a) 30 units of coursework applicable to the M.S.
degree, of which at least 21 units must be
500/600-level EE courses.
b) 3 units of EE 697 comprehensive study preparatory to
the exam and completion of the comprehensive exam
with a grade of “B” or better.
2. Formal approval of granting of the degree by the
Engineering faculty.

GRADUATE PROGRAM
The 30 units of coursework in the graduate program must
form a cohesive plan of graduate study that consists of
suggested and elective courses from one of the seven
options currently offered in the ECE department. The Thesis
Plan must not include EE699 (Independent Study) and the
Project Plan may include at most 3 units of EE699
(Independent Study). Inclusion of a course not in the ECE
suggested or elective course list must have the written
approval of the graduate coordinator prior to enrollment in the
course.

SPECIAL REQUIREMENTS
Students from non-technical fields must fulfill most of the
undergraduate prerequisite courses in math and physics,
only below, with a 3.0 GPA or higher. No time limit
applies to courses taken to satisfy M.S. prerequisite
requirements.

PREREQUISITE COURSES
Some or all of these prerequisite courses may be required.
depending on applicant’s prior background. The graduate
coordinator will determine the specific prerequisite courses
on a case by case basis.
MATH 150A Mathematical Analysis I..............................5
MATH 150B Mathematical Analysis II..............................5
MATH 250 Mathematical Analysis III.............................3
MATH 280 Applied Differential Equations ..................3
PHYS 220B/BL Mechanics ...........................................3/1
PHYS 220D Optics and Modern Physics ..................3
or
CHEM 106 General Chemistry II for Engineering......3
EE 240/L Electrical Engineering Fundamentals ...3/1
EE 320/L Theory of Digital Systems....................3/1
EE 350 Linear Systems I...........................................3
EE 351 Linear Systems II...........................................3
EE 340/L Electronics I.............................................3/1
EE 4XX/4YY Two 400 level classes approved by
Graduate Coordinator related to study
objective.

REQUIRED COURSES (30 UNITS)
The Department of Electrical and Computer Engineering
offers the Master of Science degree in Engineering with an
option in Electrical Engineering. Within this option students
may choose an area of concentration in Biomedical
Engineering, Communications and Radar Engineering,
Control Engineering, Digital/Computer Engineering,
Electronics Engineering, Solid State Devices and Integrated
Circuits Engineering, Microwave and Antenna Engineering,
and Power Systems Engineering. For all of these areas of
concentration, the student must define a program that
conforms to the general M.S. degree requirements as
established by the Department. Suggested courses for each
of the options are indicated in the listings that follow.
Additional or other courses may be relevant for specific
program objectives. Students are advised to meet with an
advisor as soon as possible to plan their program. All
graduate programs in the Department of Electrical and
Computer Engineering must be approved by the faculty
adviser and the Graduate Coordinator.

SUGGESTED COURSES FOR BIOMEDICAL ENGINEERING
EE 425 Microprocessor Systems...............................3/1
EE 440 Electronics II...............................................3/1
EE 442 Digital Electronics........................................3/1
EE 455 Mathematical Models in EE...........................3
EE 501 Introduction to Biomedical Engineering.........3
EE 595BI Biomedical Instrumentation......................3
EE 602 Biomedical Engineering I............................3
EE 603 Biomedical Engineering II...........................3
EE 650 Random Processes......................................3

SUGGESTED COURSES FOR COMMUNICATIONS AND
RADAR ENGINEERING
Suggested Core Courses
EE 561 Digital Communications System......................3/1
EE 650 Random Processes.......................................3
EE 651 Digital Signal Processing I............................3
EE 660 Modulation Theory......................................3
EE 666 Fiber-Optic Communications........................3
Suggested Electives
Choose 9-15 units from the following:
EE 635 Error Detecting and Correcting Systems ..........3
EE 637 Pattern Recognition....................................3
EE 642 RF Electronics Design..................................3
EE 652 Digital Signal Processing II.........................3
EE 658 Signal Detection and Estimation Theory..........3
EE 659 Information Theory and Coding....................3
EE 661 Communication Engineering........................3
EE 662 Data Communication Networks.....................3
EE 665 Radar Systems............................................3
EE 669 Advanced Topics in Communications/Radar.....3
EE 671 Microwave Engineering...............................3

SUGGESTED COURSES FOR CONTROL ENGINEERING
EE 455 Mathematical Models in EE...........................3
EE 480 Fundamentals of Control Systems..................3/1
EE 580 Digital Control Systems..............................3
EE 650 Random Processes.......................................3
EE 681 Non-Linear Control Systems........................3
EE 682 State Variables in Automatic Control..........3
EE 683 Optimal Control..........................................3
EE 684 Stochastic Control......................................3
Additional graduate courses may be taken in the area of
Digital Signal Processing, Biomedical or Communications
Engineering.

SUGGESTED COURSES FOR DIGITAL AND
COMPUTER ENGINEERING
EE 420 Digital System Design with Prog. Logic............3
EE 422 Design of Digital Computers........................3
EE 425 Microprocessor Systems...............................3
EE 445 Introduction to Solid State Devices.................3
EE 546 Very Large Scale Integrated Circuit Design.....3
EE 595VLH/L Verilog HDL: Modeling, Simulation and
Synthesis and Laboratory.....................................3/1
EE 620 Switching Theory........................................3
EE 621 Computer Arithmetic Design........................3
EE 622 Digital Systems Structure............................3
EE 623 Diagnosis and Reliable Design for Digital Systems3
EE 624 Digital Systems Design Automation and
VHDL Modeling..................................................3
EE 625 Microprocessor Applications in Engineering......3
EE 626 Seminar in Digital Systems and Components....3
EE 635 Error Detecting and Correcting System Design..3
EE 637 Pattern Recognition....................................3
EE 639 Robotic Sensing and Computer Vision............3
EE 650 Random Processes.......................................3

SUGGESTED COURSES FOR ELECTRONICS, SOLID STATE DEVICES
AND INTEGRATED CIRCUITS ENGINEERING
EE 440 Electronics II.............................................3/1
EE 442 Digital Electronics........................................3/1
EE 443  Pulse and Waveshaping Circuit Design .......... 3/1
EE 445  Introduction to Solid State Devices .......... 3
EE 455  Mathematical Models in Electrical Engineering .......... 3
EE 470  Electromagnetic Fields and Waves I .......... 3/1
EE 545  Solid State Devices .......... 3
EE 546  Very Large Scale Integrated Circuit Design .......... 3
EE 571  Electromagnetic Fields and Waves II .......... 3
EE 640  Modern Electronic Techniques .......... 3
EE 642  RF Electronic Design .......... 3
EE 649  Active Network Synthesis .......... 3
EE 650  Random Processes .......... 3
EE 666  Fiber Optics Communication .......... 3
EE 673  Microwave Semiconductor Devices .......... 3

SUGGESTED COURSES FOR MICROWAVE AND ANTENNA ENGINEERING
EE 455  Mathematical Models in EE .......... 3
EE 470  Electromagnetic Fields and Waves I .......... 3
EE 571  Electromagnetic Fields and Waves II .......... 3
EE 572  Microwave Active Circuits .......... 3
EE 545  Solid State Devices .......... 3
EE 642  RF Electronics Design .......... 3
EE 648  Electrical Network Theory .......... 3
EE 650  Random Processes .......... 3
EE 651  Digital Signal Processing I .......... 3
EE 652  Digital Signal Processing II .......... 3
EE 665  Radar Systems .......... 3
EE 671  Microwave Engineering .......... 3
EE 672  Advanced Microwave Circuit Design .......... 3
EE 673  Microwave Semiconductor Devices .......... 3
EE 674  Antenna Engineering .......... 3
EE 675  Seminar in Antenna Engineering .......... 3
EE 676  Numerical Techniques in Applied Electromagnetics .......... 3
EE 678  Fourier Optics .......... 3

SUGGESTED COURSES FOR POWER SYSTEMS ENGINEERING
EE 410  Electric Machines .......... 4
EE 411  Electric Power Transmission Lines .......... 3
EE 412  Power Electronics and Motor Control .......... 3
EE 610  Fault Analysis in Power Systems .......... 3
EE 611  Power Distribution Systems .......... 3
EE 612  Selected Topics in Power Systems .......... 3
Additional courses should be selected after consultation with a faculty advisor.

TOTAL UNITS REQUIRED FOR M.S. DEGREE: 30-33

COURSE LIST - ELECTRICAL & COMPUTER ENGINEERING
LOWER DIVISION
EE 100. THE TECHNOLOGICAL WORLD (3)
An introduction to the concepts, theories, and techniques that contribute to our technological civilization. A course to improve the student's understanding of modern technology its capabilities, characteristics, and limitations and to develop insights useful in coping with social, economic, political, as well as purely technical problems. An introduction to modeling, digital computers, and control systems. Required writing assignments relating to current trends and treatment of technological problems. (Available for General Education, Applied Arts and Sciences.) May not be used as part of senior programs.

EE 196. EXPERIMENTAL COURSES IN ELECTRICAL ENGINEERING (1-4)

EE 240. ELECTRICAL ENGINEERING FUNDAMENTALS (3) (Formerly 260)
Prerequisite: PHYSICS 220B. Corequisite: MATH 280. Introduction to the theory and analysis of electrical circuits; basic circuit elements including the operational amplifier; circuit theorems; dc circuits; forced and natural responses of simple circuits; sinusoidal steady state analysis and the use of a standard computer aided circuit analysis program. Consideration will be given to power, energy, impedance, phasors, frequency response and their use in circuit design.

EE 240L. ELECTRICAL ENGINEERING FUNDAMENTALS LABORATORY (1) (Formerly 260/L)
Corequisite: EE 240. Introduction to the practical aspects of electrical circuits, analysis and design. Laboratory includes experiments on resistive circuits, operational amplifiers, network theorems, first and second order circuits, dc meters, passive filters, resonant circuits and RC active filters. Several experiments emphasize the design process. Three hours of laboratory per week.

EE 296. EXPERIMENTAL COURSES IN ELECTRICAL ENGINEERING (1-4)

UPPER DIVISION
EE 320/L. THEORY OF DIGITAL SYSTEMS (4) (Formerly 355)
Prerequisite: MATH 150B. Introduction to digital systems. Topics treated include: number systems, binary codes, Boolean algebra, combinational logic design, logic minimization techniques, sequential circuits design, arithmetic operations, data transfer using register transfer notation, memory devices, digital system organization and digital subsystems design. Three hours of lecture and one three-hour laboratory per week.

EE 340/L. ELECTRONICS I (4) (Formerly 365)
Prerequisite: EE 340. Corequisite EE 350. Linear, piecewise-linear, and nonlinear models for active devices and their interaction with passive network elements. Characteristics and behavior of operational amplifiers, diodes and transistors. Small signal amplifiers and their analysis at low, midband and high frequencies. Three hours of lecture and one three-hour laboratory per week.

EE 350. LINEAR SYSTEMS I (3) (Formerly 360A)
Prerequisite: EE 240. A systematic development of linear system response models in both the time and frequency domains. Concentrates on continuous system models. Techniques developed include Laplace transform, Fourier analysis, impulse response, convolution, and state variables for continuous linear systems.

EE 351. LINEAR SYSTEMS II (3) (Formerly 360B)
Prerequisite: EE 350. Continuation of EE 350, with concentration on discrete system models. Techniques developed include Z-transforms, Fourier Analysis, Impulse response, convolution, and state variables for discrete linear systems.

EE 392. WOMEN IN ENGINEERING AND COMPUTER SCIENCE: CAREER ISSUES AND EXPLORATION (1)
Prerequisites: Upper Division standing. Educational, social and occupational issues related to women entering engineering, computer science and related technical career fields. Students make individual or team outreach visits to one high school and act as mentors to secondary school students to expand their knowledge of engineering and computer science. For Credit/No Credit only.
EE 396. EXPERIMENTAL COURSES IN ELECTRICAL ENGINEERING (1-4)

EE 400A. ENGINEERING DESIGN CLINIC I (1-3)
A group design experience involving teams of students and faculty working on the solution of engineering design problems submitted by industry and government agencies.

EE 400B. ENGINEERING DESIGN CLINIC II (1-3)
Prerequisite: EE 400A. Continuation of EE 400A.

EE 410/L. ELECTROMECHANICAL ENERGY CONVERSION (4)
(Formerly 451)
Prerequisite: EE 240. Review of Phasor analysis, three phase power and measurement of power. Study of magnetic aspects, transformers (single phase and three phase), electromechanical energy conversion. Analysis of rotating machines such as induction machines, synchronous machines and direct current machines. MathCad, Excel and FORTRAN are used for homework and analysis. Three hours lecture and one 3-hour laboratory per week.

EE 411. POWER TRANSMISSION LINES (3)

EE 412. POWER ELECTRONICS & MOTOR CONTROL (3)

EE 420. DIGITAL SYSTEMS DESIGN WITH PROGRAMMABLE LOGIC (3)
Prerequisite: EE 320. This course is designed to cover and compare a variety of programmable logic devices with design examples to show their applications. It emphasizes the implementation of digital systems with programmable logic devices and it uses VHDL in design description and Maxplus II software in design simulation and verification.

EE 422. DESIGN OF DIGITAL COMPUTERS (3)
(Formerly 456)
Prerequisite: EE 320. The structure and operation of a stored-program general-purpose digital computer. Design of computer hardware modules: arithmetic-logic units, control units, input-output units, memories. Basic organizations of digital computers. Fault diagnosis and fault tolerant design of digital systems.

EE 425/L. MICROPROCESSOR SYSTEMS (4) (Formerly 459)
Prerequisite: EE 320. Studies of microprocessor architectures and microcomputer systems. Basic microprocessor software consideration and assembly language programming. Microcomputers system design considerations, applications, and design with a microcontroller.

EE 435/L. MECHATRONICS (3)
Prerequisites: EE 240. Corequisite: ME 384 or EE 320 and EE 350. Machine and process control applications, data acquisition systems, sensors and transducers, acuating devices hardware controllers, transducer signal processing and conditioning. Two hours lecture and one 3-hour laboratory each week (same as ME 435/L).

EE 440/L. ELECTRONICS II (4) (Formerly 465A)
Prerequisite EE 340 and EE 350. A continuation of EE 340. Power amplifiers, feedback amplifiers, stability, oscillators, RC active filters and switched-capacitor circuits. Three hours of lecture and one 3-hour laboratory per week.

EE 442/L. DIGITAL ELECTRONICS (4) (Formerly 465B)
Prerequisite: EE 320, EE 340 and EE 340. Models of electronic nonlinear devices and their analysis. The limitations of digital circuits. The design of logic gates and of memory elements and registers. System considerations with reference to various technologies, including NMOS, PMOS, CMOS, RTL, DTL, TTL, IIL and ECL. The study of VLSI. Three hours of lecture and one 3-hour laboratory per week.

EE 443/L. PULSE & WAVESHAPING CIRCUIT DESIGN (4)
Prerequisites: EE 320, EE 340, EE 350. Waveshaping circuits with application to data acquisition and instrumentation. Design of multivibrator circuits. Design of analog to digital and digital to analog interfaces. Three hours of lecture and one 3-hour laboratory per week.

EE 445. INTRODUCTION TO SOLID STATE DEVICES (3)
(Formerly 462)
Prerequisite: EE 340 and EE 350, and PHYS 220D or equivalent. Corequisite: EE 351. The electric and magnetic properties of materials are examined with emphasis on engineering applications. Typical devices which are considered include ohmic and non-ohmic contacts, voltaic cells, PN junction devices, ferroelectric energy converters, ferrite devices and integrated circuits.

EE 450. PROBABLISTIC SYSTEMS IN ELECTRICAL ENGINEERING-DESIGN & ANALYSIS (3) (Formerly 467)
Prerequisite: EE 350. A continuation of EE 340. Develops and demonstrates techniques and models useful for solving a wide range of problems associated with the design and analysis of various probabilistic systems in electrical engineering application. These include radar, communication systems, sonar, control systems, information theory, computer systems, circuit design, measurement theory, vulnerability analysis, and propagation.

EE 455. MATHEMATICAL MODELS IN ELECTRICAL ENGINEERING (3)
Prerequisite: EE 350. The advanced topics in Mathematics in the areas of Complex Variables, Linear Algebra, Partial Differential Equations and Series Solutions to Differential Equations are discussed. These mathematical tools are used to model and solve Electrical Engineering related problems in the areas of Circuits, Controls, Electromagnetics, Solid State and Communication Theories.

EE 460/L. INTRODUCTION TO COMMUNICATION SYSTEMS (4)
(Formerly 466A)
Prerequisite: EE 350. Corequisite: EE 351. Introduction to information transmission. Transmission through electric networks. Analog communication systems. AM, DSB, SSB, frequency and phase modulation techniques. Physical sources of noise, and evaluation of different systems in the presence of noise. Three hours of lecture and one 3-hour laboratory per week.

EE 470. ELECTROMAGNETIC FIELDS AND WAVES I (3)
(Formerly 460)
Corequisite: EE 350 and EE 470/L. The analysis of vector fields. Applications to: Electrostatic, magnetostatic and quasi-static systems; dielectric magnetic and conducting materials; and electromagnetic waves and transmission files.
UNDERGRADUATE/GRADUATE

EE 501. INTRODUCTION TO BIOMEDICAL ENGINEERING (3)
Prerequisite: Senior or graduate standing. The characterization and properties of anatomical and physiological elements in engineering applications will be studied. The course will also include the design of basic medical instrumentation.

EE 545. SOLID STATE DEVICES (3) (Formerly 645)
Prerequisite: EE 340, Physics 220D, or consent of instructor. An in-depth study of semiconductor materials and solid state devices. Energy bands and charge carriers, excess carriers in semiconductors, p-n junctions, bipolar junction transistors (BJTs), field effect transistors (FETs), integrated circuits (IC) will be covered in detail. Practical aspects of dielectric and magnetic devices will also be treated.

EE 546. VERY LARGE SCALE INTEGRATED CIRCUIT DESIGN (3) (Formerly EE 646)
Prerequisite: EE 442. Survey of VLSI technology and very large scale integrated systems. Problems which occur when ordinary circuits are replicated to involve millions of devices. CMOS technology, design styles up to the point of submission for fabrication. Computerized methods with high density circuits with optimized speed and power consumption. Students perform simple layouts and simulations suitable for extension to a very large scale. (Two units of lecture, one unit of computer laboratory.)

EE 561/L. DIGITAL COMMUNICATIONS SYSTEMS (4) (Formerly 461)
Prerequisites: EE 450 and EE 460. An introduction to digital communications systems. Topics include Pulse Code Modulation and Delta Modulation, performance of baseband systems. Amplitude Shift Keying, Frequency Shift Keying, Link analysis and System Synchronization will also be included. Three hours of lecture and one 3-hour lab per week.

EE 571. ELECTROMAGNETIC FIELDS AND WAVES II (3) (Formerly 471)

EE 572. ACTIVE MICROWAVE CIRCUIT DESIGN (3) (Formerly 472)
Prerequisites: EE 470, EE 340 or consent of instructor. Basic concepts in network parameters and RF/Microwave impedance transformation techniques leading to analysis and design of RF/microwave transistor amplifiers and oscillator circuits using bipolar junction transistors (BJTs) and field effect transistors (FETs) will be treated. Basic concepts in noise as well as considerations in gain, power and stability are also included.

EE 572L. ACTIVE MICROWAVE CIRCUITS LABORATORY (1) (Formerly 472NL)
Corequisite: EE 572. The design, construction and testing of microwave passive and active circuits. Introduction to modern CAE and CAD techniques including optimization.

EE 580. DIGITAL CONTROL SYSTEMS (3) (Formerly 481)
Prerequisite: EE 351, EE 480. Application of z-transform and state variable methods to the analysis and design of digital and sampled-data control systems; the sampling process, data reconstruction devices, stability analysis, frequency response methods, continuous network compensation, digital controllers, z-plane synthesis, state-variable feedback
compensation, variable gain methods in non-linear sampled-data system analysis.

GRADUATE
(300-level courses in Electrical Engineering do not carry credit for a Master’s degree in Engineering.)

EE 602. BIOMEDICAL ENGINEERING I (3) (Formerly EE 502)
Prerequisite: EE 340 or consent of instructor. Engineering approach to biological systems, biological instrumentation, recording of biological signals, medical data processing techniques, transducers, hospital systems, mathematical analysis computers.

EE 603. BIOMEDICAL ENGINEERING II (3)
(Formerly EE 503)
Prerequisite: Consent of instructor. A review of modeling methods in engineering: mathematical models of various biological mechanisms, including the cardiovascular, neuroendocrine, and sensory systems. Continuing study of instrumentation of the various biological mechanisms.

EE 610. FAULT ANALYSIS IN POWER SYSTEMS (3)
Prerequisite: EE 411 or consent of instructor. This class is geared toward the study of electrical faults in power systems. The following major topics will be emphasized: YBUS and ZBUS matrices development for a power systems network. Symmetrical Components techniques. Positive, Negative, and Zero sequence network analysis. Unsymmetrical faults. Study of power systems stability. Overview of protective relaying.

EE 611. POWER DISTRIBUTION SYSTEMS (3)
Prerequisite: EE 410; corequisite: EE 411. Design of subtransmission lines and distribution substations. Primary and secondary systems, voltage drop and power loss calculations. System voltage regulation, protection and reliability. Markov process analysis, development of the state-transition model to determine the steady-state probabilities, and the zone-branch technique discussion.

EE 612. SELECTED TOPICS IN POWER SYSTEMS (3)
Prerequisites: EE 410, 610 or consent of instructor. Advanced study of topics of current interest in the field of Electric Power Systems. Topics include The Power Flow Problem, Economic Dispatch, Power Systems Stability, and Electric Transients. Recent developments and applications will be reviewed.

EE 620. ADVANCED SWITCHING THEORY (3)
(Formerly EE 520)
Prerequisite: EE 320. A detailed study of synchronous and asynchronous circuits, their characterization, optimization and decomposition. Problems involving combinational and sequential hazards. Issues involved in race free and critical race free asynchronous design. Non-Boolean logic design such as galois logic, and many value logics and algorithmic state machine (ASM) designs. VHDL implementation of combinational and sequential circuits.

EE 621. COMPUTER ARITHMETIC DESIGN (3)
(Formerly EE 521)

EE 622. DIGITAL SYSTEMS STRUCTURE (3)
(Formerly EE 522)
Prerequisite: EE 422. Studies of digital systems architectures primarily from the hardware viewpoint. Techniques and design methods employed for general purpose computers. Unconventional and special-purpose computers, such as parallel processors, associative processors, pipeline processors, array processors, list processors, hardware compilers.

EE 623. DIAGNOSIS AND RELIABLE DESIGN OF DIGITAL SYSTEMS
(Formerly EE 523)
Prerequisite: EE 620 and EE 422. The basic theory and techniques for testing digital circuits and systems and design techniques for fault tolerant and early diagnosable systems. Test generation for combinational and sequential logic circuits, checking experiments. Gate level digital simulation and application to diagnosis. Design techniques using static and dynamic redundancy for reliable systems. Design for testability (DFT) techniques and easily testable FPGA and ASICS. VHDL modeling of faults, fault coverage, design for testability, reliability computations, and logic synthesis. Students will participate in VHDL class projects using the EDA software tools in the EDA and ASIC design laboratory.

EE 624. DIGITAL SYSTEMS DESIGN AUTOMATION AND VHDL MODELING (3) (Formerly EE 524)
Prerequisite: EE 320. Automated design techniques, verification of digital systems. Problems related to physical packaging, partitioning, assignment, placement and interconnection of elements of digital circuits, i.e. ASICs, FPGA, and EPLD’s. VHDL modeling, simulation and synthesis of design automation algorithms. Top-down design of digital systems. Class projects consist of VHDL modeling of some design automation algorithms.

EE 625. MICROPROCESSOR APPLICATIONS IN ENGINEERING (3) (Formerly EE 525)
Prerequisite: EE 425. Microprocessor system architectures, programmable peripherals and applications at the system level. Microprocessor-based system design and development techniques.

EE 629A-B-C. SEMINAR IN DIGITAL SYSTEMS AND COMPONENTS (1-2-3) (formerly EE 529AN-BN-CN)
Prerequisite: Consent of instructor. Advanced studies of topics of current interest in the field of digital systems and components engineering. The course will consist in part of an intensive study of selected papers from current literature.

EE 635. ERROR DETECTING AND CORRECTING SYSTEMS DESIGN (3) (Formerly EE 535)
Prerequisite: EE 320. Theory and application of error detecting and correcting codes. Encoding, decoding and error correcting techniques. System control with emphasis on hardware implementation.

EE 637. PATTERN RECOGNITION (3) (Formerly EE 537)
Design and analysis of linear and sequential classifiers in engineering systems. Decision theories, sequential learning, feature selections and transformations. Applications in diverse fields such as medical diagnoses, speech recognition, part defect detections and scene matching.

EE 639. ROBOTIC SENSING AND COMPUTER VISION
(Formerly EE 539)
Prerequisite: EE 425. Design and development of robotic systems with sensing elements for closed-loop controls. Sensing by vision, proximity and touch. Development of
image processing and pattern recognition techniques for object recognitions and location, size and shape determinations using microprocessor-based systems. Robotic trajectory, collision avoidance, path planning and teaching.

EE 640. MODERN ELECTRONIC TECHNIQUES (3)  
(Formerly EE 540)  
Prerequisites: EE 440 and EE 442. Advanced electronic design techniques such as switching regulators and switching amplifiers will be covered. Also included will be thermal effects, manufacturing defects, finally, advanced audio design will be emphasized. Computerized design techniques will be used.

EE 642. RF ELECTRONICS DESIGN (3) (Formerly EE 542)  
Prerequisites: EE 440, EE 572 or consent of instructor. The design of RF amplifiers and tuners is emphasized, covered are AM/PM IF amplifiers, AM/PM tuners. AM/PM detectors. Radar applications are considered: TV circuits including UHF/VHF tuners, video amplifiers, sync. vertical and horizontal circuits. Automatic control circuits are also covered. Phase lock loop techniques are introduced with emphasis on RF applications including frequency synthesis techniques using digital techniques.

EE 648. ELECTRICAL NETWORK THEORY (3)  
(Formerly EE 548)  
Prerequisite: EE 351. The analysis and synthesis of passive networks, using two port theory, Matrix, signal flow graphing, and computerized techniques in active network design with emphasis on signal processing.

EE 649. ACTIVE NETWORK SYNTHESIS (3)  
(Formerly EE 549)  
Prerequisite: EE 351. Frequency and time domain approximations, introduction to active circuits, modern design of active filters of computerized techniques in active network design with emphasis on signal processing.

EE 650. RANDOM PROCESSES (3) (Formerly EE 550N)  
Prerequisite: EE 450. Random systems, stationary and ergodic processes, spectral representation. Prediction, filtering, and estimation of digital and continuous system. Applications to control and communication.

EE 651. DIGITAL SIGNAL PROCESSING I (3)  
(Formerly EE 551)  

EE 652. DIGITAL SIGNAL PROCESSING II (3)  
(Formerly EE 552)  

EE 658. SIGNAL DETECTION AND ESTIMATION THEORY (3)  
(Formerly EE 558)  
Prerequisite: EE 650. Classical detection theory, classical estimation theory, review of representations for random processes, signal detection, signal estimation, linear estimation and filtering applications of detection and estimation theory to radar, modern radar synthesis by decision-theoretic methods.

EE 659. INFORMATION THEORY AND CODING (3)  
(Formerly EE 559)  
Prerequisite: EE 450, EE 561. Modeling of information sources and channels. Discrete channels with and without memory, channel capacity, noiseless and noisy channels. Error correcting and detecting codes, source codes, including algebraic and convolution codes, their construction and efficiency.

EE 660. MODULATION THEORY AND CODING (3)  
(Formerly EE 560)  
Prerequisite: EE 561 and EE 650. Course covers channel capacity, channel coding, linear block codes, cyclic codes, convolution coding and decoding algorithms. Modulation and coding tradeoffs, spread spectrum techniques, multiplexing, encryption and decryption are also included.

EE 661. COMMUNICATIONS ENGINEERING (3)  
(Formerly EE 561)  
Prerequisite: EE 650. Course covers the design and performance of communication systems for particular channel models, with emphasis on the I-Q transmitter/receiver model. Bandwidth-limited channels, fading multipath channels, propagation effects, and colored noise are considered. Course also covers the performance of analog communication systems in additive white Gaussian noise.

EE 662. DATA COMMUNICATION NETWORKS (3)  
(Formerly EE 562)  
Prerequisite: EE 650. Basic analysis and design considerations in data communication networks, including satellite communications networks, computer networks, packet radio networks, and local area networks. Covers network topology, routing and flow control, performance tradeoffs, and queuing analysis of multiple access techniques.

EE 665. RADAR SYSTEMS (3) (FORMERLY EE 565)  
Prerequisite: EE 650. Covers pulse and CW radars and target cross-section, receiver noise and losses, signal detection and matched filters, pulse compression, target parameter estimation, clutter and interferences.

EE 666. FIBER-OPTIC COMMUNICATIONS (3)  
(Formerly EE 566)  
Prerequisite: EE 650. A comprehensive description of the technology of fiber optical communication systems. A balanced discussion between component operation and system design considerations. Performance parameters and fabrication problems, lasers, LED modulation and detector responses. Link budget analysis. Advantages of fiber optics, recent developments and applications.

EE 669. ADVANCED TOPICS IN COMMUNICATIONS/RADAR (3) (Formerly EE 569)  
Prerequisite: EE 650. Presentation of recent topics in communications and radar, using selected papers from current literature as the basis.

EE 671. MICROWAVE ENGINEERING (3) (Formerly EE 571)  
Prerequisite: EE 471. The application of the concepts of modern network theory to waveguiding systems. Impedance transformation and matching, scattering matrix, propagation in non-isotropic media, passive microwave devices, electromagnetic resonators, measurements in microwave systems.

EE 672. ADVANCED MICROWAVE CIRCUIT DESIGN (3)  
(Formerly EE 572)  
Prerequisite: EE 572 or consent of instructor. Advanced microwave circuit design and in-depth analysis of microwave
transistor amplifiers, microwave oscillators, detectors, mixers, microwave control circuits and microwave integrated circuits (MIC’s) are included in this course. Practical design issues of microwave circuits will be emphasized. Materials, mask layout and fabrication techniques of microwave integrated circuits (MIC’s) will also be treated.

EE 673. MICROWAVE SEMICONDUCTOR DEVICES (3)  
(Formerly EE 573)  
Prerequisite: EE 545 or consent of the instructor. Physical principles and applications of microwave solid-state devices. Devices to be considered: Varactors, p-i-n diodes, mixer and detector diodes, avalanche transit-time devices (IMPATT, TRAPATT), BARRITT, microwave transistors, FETS, transferred electron (Gunn) devices. Applications: frequency multipliers, microwave switches, oscillators and amplifiers.

EE 674. ANTENNA ENGINEERING (3) (Formerly EE 574)  
Prerequisite: EE 571. A first course in the theoretical analysis and design of antennas. Review of fundamental concepts beginning with Maxwell’s Equations, discussion of significant antenna parameters, elementary antennas, apertures, arrays, traveling-wave antennas, and antennas based upon geometrical optics.

EE 675. SEMINAR IN APPLIED ELECTROMAGNETICS (3)  
(Formerly EE 575)  
Prerequisite: EE 674 or consent of the instructor. An advanced study of topics of current interest in the field of applied electromagnetics. The course will in part consist of an intensive study of selected papers from the current literature. The participants will be expected to prepare bibliographies and present oral and/or written reports.

EE 676. NUMERICAL TECHNIQUES IN APPLIED ELECTROMAGNETICS (3)  
(Formerly EE 576)  
Prerequisite: EE 674 or consent of instructor. A study of current techniques employed to solve practical electromagnetic field problems. Emphasis will be placed upon antenna and radar cross section problems using moment methods. Students will be expected to use the techniques treated to solve problems using a digital computer.

EE 678. FOURIER OPTICS (3) (Formerly EE 578)  
Prerequisite: Physics 420 or consent of instructor. Two-dimensional Fourier transforms are used in analysis and synthesis of optical systems. Sampling, approximation, and stochastic processes in two dimensions. Modulation, transfer functions, coherent and incoherent imaging, holo graphy, film characterization, analogies between electrical and optical components.

EE 681. NON-LINEAR CONTROL SYSTEMS (3)  
(Formerly EE 581)  

EE 682. STATE VARIABLES IN AUTOMATIC CONTROL (3)  
(Formerly EE 582)  
Prerequisite: EE 480. Application of state-space methods to the analysis and synthesis of feedback control systems; matrices, vectors and vector spaces, coordinate transformations, solution of the vector matrix differential equation, stability, controllability and observability, optimal control systems.

EE 683. OPTIMAL CONTROL (3) (Formerly EE 583)  
Prerequisite: EE 682. Applications of variational methods, Pontryagin’s Maximum Principle, and dynamic programming to problems of optimal control theory; iterative numerical techniques for finding optimal trajectories.

EE 684. STOCHASTIC CONTROL (3) (Formerly EE 584)  
Prerequisites: EE 682, EE 550. Control of linear, discrete-time and continuous-time stochastic systems; statistical filtering, estimation and control with emphasis on the Kalman filter and its applications; Wiener filtering.

EE 695. SPECIAL TOPICS IN ELECTRICAL ENGINEERING (1-4)  
(Formerly EE 595N)

EE 696. DIRECTED GRADUATE RESEARCH (1-3)  
(Formerly EE 596)

EE 697. DIRECTED COMPREHENSIVE STUDIES (3) CREDIT/NO CREDIT ONLY (Formerly EE 597)

EE 698. THESIS OR GRADUATE PROJECT (1-6 (Formerly EE 598)

EE 699. INDEPENDENT STUDY (1-3) (Formerly EE 599)
MECHANICAL ENGINEERING
Chair: Sidney Schwartz

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE
Department Office: EN 2413
Phone: (818) 677-2187
Office Manager: Diane MacLachlan
Graduate Coordinator: Sidney Schwartz, (818) 677-2187


EMERITUS FACULTY: Charles F. Sanders, Lester Nypan, William J. Rivers

THE MAJOR: Mechanical Engineering is the design, analysis, and testing of useful devices, processes, vehicles, machines, and systems that are primarily thermal, fluid, and/or mechanical in nature. Mathematics is an important tool for those tasks, so a math aptitude is very important. So is a practical orientation. The program assumes that students have adequate high school preparation in science, math, and English. The faculty and students are represented by diverse backgrounds.

Mechanical Engineering majors at Northridge receive a solid, broad-based education during the first three years. That is followed by a specialized Mechanical Engineering “senior program” taken during the senior year. The freshmen and sophomore years include courses in mathematics, chemistry, physics, computer programming, engineering skills, engineering materials, engineering mechanics, and electrical systems. For ME students the junior year courses include engineering economics, engineering dynamics, strength of materials, thermodynamics, fluid mechanics, heat transfer, mechanical engineering design, and the numerical analysis of engineering systems.

The Mechanical Engineering senior year is composed of a group of five required courses and four or five semi-elective courses that are related to the student’s area of specialization within Mechanical Engineering. Those required courses are system dynamics, mechatronics, thermodynamics, and two semesters of senior design. The current recommended areas of specialization are: aerospace engineering, automotive engineering, controls engineering, electro-mechanical engineering, environmental engineering, mechanical design, power engineering, and thermofluid systems.

The Mechanical Engineering Department takes a practical approach to engineering, offering hands-on design experience as well as theoretical knowledge. That’s an advantage on the job because our graduates have had experience constructing projects, not just analyzing and designing them. A key to this practical training is the department’s senior design program, which is modeled on the industry work groups that students will encounter on the job. Like professional engineers, our students design and develop a project, from conception through manufacture. In the process, they gain valuable experience in working as a team, dealing with personalities as well as technical problems. Past senior design projects have included: human powered vehicles, solar powered vehicles, super mileage vehicles, reduced (half) size Baja (off-road) race cars, reduced (half) size Indianapolis-style race cars, hybrid electric automobiles, a methanol powered automobile, a compressed natural gas powered truck, payload maximized model aircraft, and fuel system for petroleum polluted soil and water.

Department laboratory facilities, contained in seven labs with a total floor space of over 20,000 square feet, include:
  • a general purpose lab used as an automobile design and testing facility;
  • fully instrumented and computerized engine and vehicle performance and emissions test facilities including an automobile environmental test chamber, a chassis dynamometer and several engine dynamometers;
  • a state-of-the-art computer controlled parts manufacturing facility together with a student manual machine shop;
  • two wind tunnels, one for testing models at up to 200 mph and the other a Mach 2 plus supersonic wind tunnel;
  • a small rocket engine test stand in an explosion-proof test cell;
  • a thermofluid systems lab used for heat transfer and fluid flow experiments;
  • a controls lab used for studying automatic system control, which involves devices such as the automobile cruise control; and
  • the Design Analysis and Simulation lab which is a computer lab containing more than 25 state-of-the-art PCs and work stations.

Through student chapters of two national organizations, the Society of Automotive Engineers and the American Society of Mechanical Engineers, students can get to know more about the field and each other outside of class.

The mechanical engineering program is accredited by ABET, the Accrediting Board for Engineering and Technology.

CAREERS: Mechanical engineers are the technical experts who design and develop such things as automobiles, engines, aircraft and space vehicles, power plants, heating and cooling systems, gas and steam turbines, servomechanisms, transmissions, robots and manufacturing production lines. They use scientific knowledge to create new and useful designs and to harness various types of energy, such as chemical, nuclear, or thermal.

Mechanical engineering is the broadest engineering specialty. A company that uses engineers at all is likely to hire some mechanical engineers. Those companies include power-generating stations, public utility companies, transportation companies, construction firms, airlines, missile and spacecraft companies, electronics companies, and the manufacturing companies that produce all forms of machinery, vehicles, aircraft, appliances, and many other products used by industry and/or consumers.

Most Mechanical Engineering graduates become practicing engineers in industry as described above. Others, however, choose to pursue careers with government agencies or educational institutions. The degree can also be a stepping-stone to law school for a career as a patent lawyer, or to business school for careers in technical management, marketing, or sales, or even to medical school.

DEPARTMENT PROGRAMS
The Mechanical Engineering (ME) Department at Cal State Northridge offers Programs leading to the following two degrees:

Bachelor of Science in Mechanical Engineering (BSME)
Master of Science in Engineering (MSE), Option: Mechanical Engineering
Requirements for the Bachelor of Science in Mechanical Engineering (BSME) Degree

High School Preparation

It must be emphasized that this program is based upon an expectation of adequate high school preparation in science, mathematics, and English. High school courses should include algebra, plane geometry, trigonometry, chemistry, or physics (both desirable), and four years of English. Students who have not had an adequate background of pre-engineering work in high school may be required to take some additional work in their first year and may not be able to complete an engineering program in eight semesters. Entering beginning engineering students must take the Entry Level Mathematics Test and the Mathematics, Chemistry, and English Placement Tests before registration in basic courses will be permitted. It is recommended that students take these tests before they begin their studies at CSUN.

Pre-Registration Testing Requirements

The campus requires most beginning students to take the Entry Level Mathematics Exam (ELM) and the English Placement Test (EPT) prior to enrolling in their courses. Refer to the section of this catalog entitled Appendices—Admission for further details on these exams. In addition to these general university requirements, students entering the Mechanical Engineering program may also need the following exams:

1. Mathematics Placement Test (MPT) is required prior to enrollment in Math 150A. Students who have passed or are exempt from the ELM should take this exam prior to enrolling in their classes so they may be placed in the appropriate mathematics course. A minimum score of 24 is required to enroll in Math 150A. Students with scores of 3, 4, or 5 on the AP Calculus AB or BC are exempt from the MPT.

2. Chemistry Placement Test (CPT) is required with a minimum score of 40 prior to enrolling in Chemistry 101. Students who do not receive this score must complete Chemistry 105 with a grade of “C” or better before taking Chemistry 101.

An advisor will review the details of these examinations with each student before they enroll in their courses.

Special Grade Requirements

All students must pass the English Placement Test with a score of 151 or higher to enroll in any 400-level engineering courses.

All students must attempt the upper division writing proficiency examination before enrolling in any 400-level engineering courses.

Senior year courses cannot be taken unless the student has previously completed, or is concurrently completing, all freshman, sophomore, and junior year requirements.

A grade of “C-” or better is required in all courses in the major.

Lower Division Required Courses (44 Units)

<table>
<thead>
<tr>
<th>Freshman Year</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MATH 150A Mathematical Analysis I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 101/L General Chemistry and Lab</td>
<td>4/1</td>
</tr>
<tr>
<td>MSE 101 Introduction to Engineering</td>
<td>1/1</td>
</tr>
<tr>
<td>MATH 150B Mathematical Analysis II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 220A/L Mechanics and Lab</td>
<td>3/1</td>
</tr>
</tbody>
</table>

Sophomore Year

|  |
|---------------|---|
| MATH 250 Mathematical Analysis III | 3 |
| PHYS 220B/L Electricity and Magnetism and Lab | 3/1 |
| MSE 227/L Engineering Materials and Lab | 3/1 |
| MATH 280 Applied Differential Equations | 3 |
| CE 240 Engineering Mechanics I | 3 |
| EE 240 Electrical Engineering Fundamentals | 3 |

Upper Division Required Courses (41 Units)

<table>
<thead>
<tr>
<th>Junior Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AM 316 Engineering Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>AM 317 Mechanics Lab</td>
<td>1</td>
</tr>
<tr>
<td>CE 340 Engineering Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>ME 309 Numerical Analysis of Engineering Systems</td>
<td>2</td>
</tr>
<tr>
<td>ME 330A Mechanical Engineering Design I</td>
<td>3</td>
</tr>
<tr>
<td>ME 370 Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>ME 330B Mechanical Engineering Design II</td>
<td>3</td>
</tr>
<tr>
<td>ME 375 Heat Transfer I</td>
<td>3</td>
</tr>
<tr>
<td>ME 390 Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ME 391 Thermal Systems Measurement Lab</td>
<td>1</td>
</tr>
<tr>
<td>MSE 304 Engineering Economy</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 384 System Dynamics: Modeling, Analysis and Simulation</td>
<td>3</td>
</tr>
<tr>
<td>ME 435 Mechatronics</td>
<td>3</td>
</tr>
<tr>
<td>ME 470 Thermodynamics II</td>
<td>3</td>
</tr>
<tr>
<td>ME 486A ME Senior Design I</td>
<td>2</td>
</tr>
<tr>
<td>ME 486B ME Senior Design II</td>
<td>2</td>
</tr>
</tbody>
</table>

During the junior year, each student will meet with a faculty advisor and plan a sequence of upper division electives, described below, which are appropriate to the student's personal career objectives. Those electives, together with the required senior year courses listed above, constitute the student's Mechanical Engineering Senior Program.

Upper Division Electives (14 Units)

Students must either choose one of the following eight elective areas of emphasis, or with the aid of a Mechanical Engineering faculty advisor develop and get approved by the Mechanical Engineering Department an equivalent alternative elective area of emphasis composed of at least 14 units of 400 and/or 500 level engineering courses.

Suggested Electives for an Aerospace Emphasis:

|  |
|-------------|---|
| AE 480 Fund of Aerospace Engineering | 3 |
| ME 490 Fluid Dynamics | 3 |
| ME 491 Experimental Methods | 3 |

Select at least two electives from: ME 409, ME 415, ME 430, ME 463, ME 484, ME 575, AE 472, AE 489, AM 410, AM 421.

Suggested Electives for an Automotive Emphasis:

|  |
|-------------|---|
| ME 460 Automotive Engineering | 3 |
| ME 462 Internal Combustion Engines | 3 |
| ME 491 Experimental Methods | 3 |

Select at least two electives from: ME 409, ME 415, ME 430, ME 432, ME 463, ME 484, ME 515, EE 425, MSE 409, MSE 412, MSE 427.

Suggested Electives for a Controls Emphasis:

|  |
|-------------|---|
| ME 463 Fluid Power Systems | 3 |
| ME 484 Control of Mechanical Systems | 3 |
| ME 491 Experimental Methods | 3 |

Select at least two electives from: ME 409, ME 415, ME 462, ME 471, ME 485, AE 480, EE 410, EE 412, EE 425, EE 580.
Suggested Electives for an Electro-Mechanical Emphasis:

EE 410/L Electromechanical Energy Conversion.........4
ME 484 Control of Mechanical Systems ..................3
ME 491 Experimental Methods .................................3

or

EE 340/L Electronics I ..........................................4

Select at least two electives from: ME 409, ME 415, ME 462, ME 463, ME 471, ME 491, AE 480, EE 425.

Suggested Electives for an Environmental Emphasis:

CE 460/L Engineering Hydrology .............................3
CE 487 Water Pollution .........................................3
ME 485 Principles of Pollution Control ....................3
ME 573 Chemical Reaction Engineering ....................3

Select at least two electives from: ME 409, ME 471, ME 483, ME 491, ME 493, ME 575, CE 426/L.

Suggested Electives for a Mechanical Design Emphasis:

ME 415 Kinematics of Mechanisms ..........................3
ME 430 Machine Design Applications ....................3
ME 432 Machine Design Laboratory .......................1
ME 491 Experimental Methods .................................3

Select at least two electives from: ME 409, ME 460, ME 462, ME 463, ME 515, AE 472, AM 410, MSE 409, MSE 412, MSE 427.

Suggested Electives for a Power Engineering Emphasis:

EE 410/L Electromechanical Energy Conversion.........4
ME 471 Power Plant System Design ............................3
ME 491 Experimental Methods .................................3

Select at least two electives from: ME 409, ME 463, ME 483, ME 484, ME 485, ME 493, ME 575, EE 411, EE 412.

Suggested Electives for a Thermofluid Systems Emphasis:

ME 490 Fluid Dynamics .........................................3
ME 491 Experimental Methods ................................3
ME 575 Applied Heat and Mass Transfer ....................3

Select at least two electives from: ME 409, ME 463, ME 471, ME 483, ME 485, ME 493, ME 573, ME 590, AE 472, AE 480, AE 489.

TOTAL UNITS IN THE MAJOR (99 Units)

GENERAL EDUCATION (30 Units)

Engineering majors have modified general education programs depending upon the year and enrollment status as a college student. Returning and transfer students should consult an advisor before planning their general education programs. The General Education requirements of Subsections A-2 and A-3, and all of Sections B and E, are satisfied by required courses in the major. Also, engineering students are only required to take 6 units of general education course work in Section D (two different disciplines).

As part of the engineering major, students are required to take an approved concentration to provide in-depth study in some area of the Humanities or Social Sciences. This concentration may be part of a student’s General Education program. It must have 9 units with at least 6 units in upper division. Students must submit their proposed concentration to the Academic Advisor’s office for approval. This should be done before taking upper-division General Education courses. Forms for this purpose, together with sample concentrations, are available in the College office.

TITLE 5 (6 Units)

TOTAL UNITS REQUIRED FOR DEGREE: 135
SYSTEM DYNAMICS AND CONTROLS EMPHASIS
Prerequisites: ME 309, 330A, 330B, 370, 375, 384, 390
Expected Background:
AM 410 Vibrations ........................................3
ME 415 Kinematics of Mechanisms ....................3
ME 484 Control of Mechanical Systems ..........3

THERMOFLUID SYSTEMS EMPHASIS
Prerequisites: ME 309, 370, 375, 390, 391
Expected Background:
ME 470 Thermodynamics II ..........................3
ME 521 Aero-structures II ................................3
ME 409 Computer-Aided Mechanical Engineering ...3
ME 435 Mechatronics ....................................3
ME 470 Thermodynamics II ..........................3
ME 484 Control of Mechanical Systems ..........3
ME 490 Fluid Dynamics ..................................3
ME 570 Advanced Fluid Dynamics ..................3
ME 609 Simulation of Dynamic Mechanical Systems 3

ELECTIVES (9-21 UNITS)
The number of required units of elective courses depends on
the number of units of required courses, described above.
The total number of units in the M.S. program, both
required and elective, must be at least 30.
The elective courses in the M.S. program are normally
chosen from one of the “Suggested Electives” lists below
depending upon the particular “emphasis” chosen.

AEROSPACE EMPHASIS
Suggested Electives:
AE 672 Advanced Aero-Propulsion .....................3
AE 680 Flight Vehicle Performance ....................3
AE 689 Advanced Aerodynamics .....................3
AM 421 Aero-structures I ............................3
AM 521 Aero-structures II ............................3
ME 409 Computer-Aided Mechanical Engineering ...3
ME 435 Mechatronics ....................................3
ME 470 Thermodynamics II ..........................3
ME 484 Control of Mechanical Systems ..........3
ME 490 Fluid Dynamics ..................................3
ME 570 Advanced Fluid Dynamics ..................3
ME 609 Simulation of Dynamic Mechanical Systems 3
ME 670 Advanced Topics in Thermodynamics ........3
ME 684 Design and Control of Dynamic Systems ....3
ME 686 Optimal Design of Mechanical Systems ......3
ME 692 Computational Fluid Dynamics ..............3

MECHANICAL SYSTEMS DESIGN EMPHASIS
Suggested Electives:
AE 472 Aero-Propulsion Systems .....................3
ME 409 Computer-aided Mechanical Engineering ....3
ME 433 Tribology: Lubrication and Friction ........3
ME 435 Mechatronics ....................................3
ME 484 Control of Mechanical Systems ..........3
ME 515 Dynamics of Machinery ......................3
ME 609 Simulation of Dynamic Mechanical Systems 3
ME 630 Computer-Aided Machine Design ..........3
ME 684 Design and Control of Dynamic Systems ....3
ME 686 Optimal Design of Mechanical Systems ......3

SYSTEM DYNAMICS AND CONTROLS EMPHASIS
Suggested Electives:
AE 472 Aero-Propulsion Systems .....................3
AE 480 Fundamentals of Aerospace Engineering ......3
AE 672 Advanced Aero-Propulsion ....................3
AE 680 Flight Vehicle Performance ....................3
ME 409 Computer-Aided Mechanical Engineering ...3
ME 435 Mechatronics ....................................3
ME 515 Dynamics of Machinery ......................3
ME 609 Simulation of Dynamic Mechanical Systems 3
ME 684 Design and Control of Dynamic Systems ....3
ME 686 Optimal Design of Mechanical Systems ......3
EE 425 Microprocessor Systems .......................3

EE 625 Microprocessor Applications in Engr ........3

THERMOFLUID SYSTEMS EMPHASIS
Suggested Electives:
AE 472 Aero-Propulsion Systems .....................3
AE 489 Aerodynamics ...................................3
AE 672 Advanced Aero-Propulsion ....................3
AE 689 Advanced Aerodynamics .....................3
ME 409 Computer-Aided Mechanical Engineering ...3
ME 435 Mechatronics ....................................3
ME 484 Control of Mechanical Systems ..........3
ME 573 Chemical Reaction Engineering .............3
ME 590 Advanced Fluid Dynamics ..................3
ME 670 Advanced Topics in Thermodynamics ........3
ME 675A Conductive & Radiative Heat Transfer ....3
ME 675B Convective Heat & Mass Transfer ..........3
ME 678 Transport Phenomena .........................3
ME 683 Energy Processes ..............................3
ME 692 Computational Fluid Dynamics ..............3

TOTAL UNITS REQUIRED FOR THE DEGREE: 30.

COURSE LIST - AEROSPACE ENGINEERING

LOWER DIVISION
AE 196. Experimental Courses in Aerospace Engineering ...1-4
AE 296. Experimental Courses in Aerospace Engineering ...1-4

UPPER DIVISION

AE 396. EXPERIMENTAL COURSES IN AEROSPACE
ENGINEERING (1-4)

AE 400A. ENGINEERING DESIGN CLINIC I (1-3)
A group design experience involving teams of students and
faculty working on the solution of engineering design
problems submitted by industry and government agencies.

AE 400B. ENGINEERING DESIGN CLINIC II (1-3)
Prerequisite: AE 400A. Continuation of AE 400A.

AE 472. AERO-PROPULSION SYSTEMS (3)
Prerequisites: ME 390 and ME 470. An analysis of aero-
propulsion systems: gas turbine, fan jet, ram jet, scram jet,
scram-rocket, solid rocket and liquid rocket systems.
Introduction to aero-thermodynamics, and advanced
propellant combustion processes.

AE 480. FUNDAMENTALS OF AEROSPACE ENGINEERING (3)
Prerequisites: AM 316 and ME 390. Atmospheric structure/
space environment. Aircraft/spacecraft configurations.
Aircraft/missile systems performance: flight envelope
aerodynamic approximations, available propulsion systems,
structural form; take-off, landing, climb and range.
Introduction to vehicle stability and control.

AE 486A. SENIOR DESIGN IN AEROSPACE ENGINEERING I (2)
Prerequisite: Senior standing in Engineering. A capstone
design experience, simulating the “real” engineering
environment. A synthesis of engineering fundamentals
applied to systems design through group participation.
Computer-Aided-Engineering Design. Construct and
development test proposed design components; use of wind
tunnels, engine dynamometers, computerized simulations of
systems performance. Two three-hour laboratories per week.

AE 486B. SENIOR DESIGN IN AEROSPACE ENGINEERING II (2)
Prerequisite: AE 486A. Continuation of AE 486A. Students
carry out the group design project initiated in AE 486A. The
influence of technical, legal, ethical and regulatory constraints
are considered. Computer-Aided-Engineering Design
methods are utilized. Two three-hour laboratories per week.
AE 489. AERODYNAMICS
Prerequisite: ME 390. Prediction of aerodynamic forces due to subsonic flows over aircraft/missile wings and bodies. Calculation of pressure distribution, lift, drag, moments and wall shearing stress in incompressible flow. Compressibility corrections will be considered. The impact of these calculations on aerodynamic design will be evaluated.

AE 496. EXPERIMENTAL COURSES IN AEROSPACE ENGINEERING (1-4)

AE 498. SUPERVISED INDIVIDUAL PROJECTS (1-3)
Studies in Aerospace Engineering with course content to be determined. (See subtitle in appropriate Schedule of Classes.)

AE 499. INDEPENDENT STUDY (1-3)

GRADUATE

AE 501AB. SEMINAR IN ENGINEERING ANALYSIS (3-3)
Analytic and numerical methods applied to the solution of engineering problems at an advanced level. Solution methods are demonstrated on a wide range of engineering topics, including structures, fluids, thermal, thermal energy transport, and mechanical systems. AE 501A and AE 501B form an integrated, two semester sequence.
A. Emphasizes physical phenomena that can be described by systems of Ordinary Differential Equations.
B. Emphasizes physical phenomena that can be described by Partial Differential Equations.

AE 586. AIRCRAFT DESIGN
Prerequisite: AE 480. Aircraft conceptual design, focused on industry practice, including discussion of the design process, initial sizing, selection of thrust-to-weight ratio and wing loading, configuration layout, propulsion integration, systems integration, performance optimization, and trade-off studies. Students will do an individual aircraft design project. The course will include performance analysis via simulated flight testing using a flight simulator.

AE 672. ADVANCED TOPICS IN AERO-PROPULSION (3)
Prerequisites: AE 472 and ME 490 or equivalent. Off-design performance of aeropropulsion systems. Solid propellant, ram jet, ram rocket, gas turbine, turbo-fan and prop-jet engines. Emphasizes on air-breathing applications in both subsonic and supersonic flight regimes.

AE 680. FLIGHT VEHICLE PERFORMANCE (3)

AE 689. ADVANCED AERODYNAMICS (3)
Prerequisite AE 489 or ME 490. Application of the principles of fluid dynamics to supersonic flows about wings and bodies. Topics include: generalized one-dimensional flow, shock waves, Prandtl-Meyer expansions, pressure distributions, lift, drag, moments and shear stresses on airfoils, wings and bodies. Applications to design will be discussed.

AE 694. SEMINAR IN AEROSPACE ENGINEERING (1-3)
Consent of instructor. Advanced studies in selected areas of the field of Mechanical Engineering.
ME 370. THERMODYNAMICS (3)
Prerequisite: Math 250. Fundamental theories and engineering applications of thermodynamics with emphasis of first and second laws of thermodynamics. The thermodynamic properties of solids, liquids, gases, and mixtures. Work-producing and work-absorbing systems. Applications to design.

ME 375. HEAT TRANSFER I (3)
Prerequisite: MATH 250. Basic principles of heat transfer and their application. Introduction to conductive, convective, and radiative heat transfer. Applications to design.

ME 384. SYSTEM DYNAMICS: MODELING, ANALYSIS AND SIMULATION (3)

ME 390. FLUID MECHANICS (3)
Prerequisite: ME 370 or equivalent. The fundamental equations of fluid mechanics are derived and applied to engineering problems, with emphasis on understanding the physical principles involved. The basic developments are applied to compressible as well as incompressible fluids. Selective exploration of the state of the art of experimental knowledge in major areas of applications. Applications to design.

ME 391. THERMAL SYSTEMS MEASUREMENT LABORATORY (1)
Prerequisite: Grade of C or better in ME 370; Corequisite: ME 375 or ME 390. Experimental methods of measurement of temperature, pressure, flow rate and shaft power; application to thermodynamic cycles and design of experiments. Application to fluid mechanics or heat transfer systems by student's choice. One three-hour laboratory each week.

ME 396. EXPERIMENTAL COURSES IN MECHANICAL ENGINEERING (1-4)
ME 400A. ENGINEERING DESIGN CLINIC I (1-3)
A group design experience involving teams of students and faculty working on the solution of engineering design problems submitted by industry and government agencies.

ME 400B ENGINEERING DESIGN CLINIC II (1-3)
Prerequisite: ME 400A. Continuation of ME 400A.

ME 409. COMPUTER-AIDED MECHANICAL ENGINEERING (3)
Prerequisites: ME 309 and senior or graduate standing. Practice in selecting and using software for solving problems in Mechanical Engineering. General principles for various classes of problems. Specific applications to thermodynamics, heat transfer, machine design, fluid flow, and lubrication.

ME 415. KINEMATICS OF MECHANISMS (3)
Prerequisite: AM 316, upper division standing. Study of forces and motion of constrained mechanisms in machine systems. Analysis of linkages, cams, sliders, crank and rocker, offset crank-slider, universal joints, etc. The internal combustion engine is utilized to demonstrate application of these elements at a systems level.

ME 430. MACHINE DESIGN APPLICATIONS (3)
Prerequisite: ME 330B and CE 340. Corequisite: ME 432. Continuation of ME 330 with emphasis on fatigue of machine parts, life, wear and friction considerations. Turbine, pump, transmissions and other devices discussed and analyzed as case studies. Design project.

ME 432. MACHINE DESIGN LABORATORY (1)
Prerequisite: ME 330A. Examination of the design process and review of machine elements. Applications of CAD to machine design: design projects with machine drawings. Introduction to machining and machine tools: fabrication of machine parts.

ME 433. TRIBOLOGY: LUBRICATION, FRICTION & WEAR (3)
Prerequisite: ME 390. Study of adhesion, friction, wear and lubricated behavior of solid surfaces in relative motion. Hydrodynamic lubrication, bearing load criteria, leakage and heat balance. The influence of bearing material, surface finish and lubricant composition on the design of lubricated mechanical systems including rolling elements, gears, cams and linkages.

ME 435/L. MECHATRONICS (3)
Prerequisites: EE 240. Corequisite: ME 384 or EE 320 and EE 350. Machine and process control applications, data acquisition systems, sensors and transducers, actuating devices, hardware controllers, transducer signal processing and conditioning. Two hours lecture and one three hour laboratory each week. (Same as EE 435/L).

ME 460. AUTOMOTIVE ENGINEERING (3)
Prerequisite: ME 330B. Introduction to automotive engineering. Design and Analysis of automotive chassis, suspension, steering, brakes, power plants and drive system. Vehicle dynamics, performance, and system optimization. Design project required.

ME 462. INTERNAL COMBUSTION ENGINES (3)
Corequisite: ME 470. Characteristics and Performance of internal combustion engines; emphasis on Otto and Diesel types, alternative cycles considered. Thermodynamics of cycles, combustion, emissions, ignition, fuel metering and injection, friction, supercharging and engine compounding. Two one-hour lectures and one 3-hour laboratory each week.

ME 463. FLUID POWER SYSTEMS (3)
Prerequisite: ME 390. Corequisite: ME 384. Analysis and design of fluid power systems. Incompressible fluid mechanics, fluid power hydraulics. Hydraulic system components: pumps, accumulators, reservoirs, valves, filters, tubing and connectors. Operation and control of hydraulic power transmission systems. Applications in aircraft control, robotics, manufacturing equipment, mobile heavy machinery, etc.

ME 470. THERMODYNAMICS II (3)
Prerequisite: ME 370 or equivalent. Continuation of Thermodynamics I with applications to engineering systems. Gas and vapor cycles for power and refrigeration. Reactive and non-reactive mixtures. Introduction to combustion.

ME 471. POWER PLANT SYSTEM DESIGN (3)
Prerequisites: ME 309 and ME 470. Simulation and design optimization of power generating systems. Steam generating systems, turbines, cooling towers and condensers. Environmental impact, air pollution, water quality, and toxic material control. Impact of multi-unit power dispatching on system performance.

ME 482. ALTERNATIVE ENERGY ENGINEERING I (3)
Prerequisite: ME 370. Principles of non-fossil fueled energy conversion systems. A review of principles of energy release in nuclear reactions. Analysis and design techniques applicable to fission, fusion, and geothermal power plants.
Environmental effects, safety and safeguards considerations.

**ME 483. ALTERNATIVE ENERGY ENGINEERING II (3)**  

**ME 484. CONTROL OF MECHANICAL SYSTEMS (3)**  
Prerequisite: ME 384. Classical feedback control theory emphasizing mechanical systems. Time domain, frequency domain, techniques: stability criteria, system sensitivity. Introduction to design compensation and methods. Digital computer simulation of translational and rotational mechanical, hydraulic and pneumatic systems. Control system design projects. Two-hour lecture and one 3-hour laboratory each week.

**ME 485. PRINCIPLES OF POLLUTION CONTROL (3)**  
Prerequisite: ME 370. Analysis of pollution control problems in various industrial processes and energy and transportation systems. Topics will include toxic wastes, resource recovery, air and water quality control. Emphasis will be on engineering designs for reducing emissions and for safe disposal of industrial and domestic wastes. Consideration will be given to both redesign of existing processes and specification of after-treatment control systems. Impacts of control and disposal systems on energy resources will be considered. A design project will be required.

**ME 486A. SENIOR DESIGN IN MECHANICAL ENGINEERING I (2)**  
Prerequisite: Senior standing in Engineering; ME 330B and ME 384. A capstone design experience, simulating the ‘real’ engineering environment. A synthesis of engineering fundamentals applied to systems design, through group participation. Computer-Aided-Engineering Design. Construct and development test proposed design components; use of wind tunnels, engine dynamometers, computerized simulations of systems performance. Two 3-hour laboratories each week.

**ME 486B. SENIOR DESIGN IN MECHANICAL ENGINEERING II (2)**  
Prerequisite: ME 486A. Continuation of ME 486A. Students carry out the group design project initiated in ME 486A. The influence of technical, legal, ethical and regulatory constraints are considered. Computer-Aided-Engineering Design methods are utilized. Two 3-hour laboratories each week.

**ME 486C. DESIGN LEADERSHIP (3)**  
Prerequisite: Consent of Instructor. Corequisite: ME 486B. Capstone design project management and design leadership through participation in large group simulation of Engineering design project that takes process from concept to demonstrated hardware.

**ME 490. FLUID DYNAMICS (3)**  
Prerequisite: ME 390. Continuation of ME 390, with applications to systems of engineering interest. Potential flows, boundary layers, duct flows, lubrication theory, lift and drag. One dimensional compressible flow with area change, friction, heating/cooling, normal shock waves, oblique shock waves, and Prandtl-Meyer expansions. Both numerical and analytical solution techniques are explored.

**ME 491. EXPERIMENTAL METHODS IN MECHANICAL ENGINEERING (3)**  
Prerequisite: ME 391. A study of methods for experimental planning, measurement techniques, data analysis and report preparation. A continuation of topics introduced in ME 391, with an emphasis on rigorous error analysis and requirements for dynamic measurements. The laboratory activities include projects chosen from several mechanical engineering disciplines. One hour lecture and two 3-hour laboratories each week.

**ME 493. HYDRAULICS (3)**  

**ME 496. EXPERIMENTAL COURSES IN MECHANICAL ENGINEERING (1-4)**

**ME 498. SUPERVISED INDIVIDUAL PROJECTS (1-3)**

**ME 499. INDEPENDENT STUDY (1-3)**

**GRADUATE**

(300-level courses in Mechanical Engineering do not carry credit for a Master’s degree in Engineering.)

**ME 501AB. SEMINAR IN ENGINEERING ANALYSIS (3-3)**

Analytic and numerical methods applied to the solution of engineering problems at an advanced level. Solution methods are demonstrated on a wide range of engineering topics, including structures, fluids, thermal, thermal energy transport, and mechanical systems. ME 501A and ME 501B form an integrated, two semester sequence.

A. Emphasizes physical phenomena that can be described by systems of Ordinary Differential Equations.

B. Emphasizes physical phenomena that can be described by Partial Differential Equations.

**ME 515. DYNAMICS OF MACHINES (3)**


**ME 573. CHEMICAL REACTION ENGINEERING (3)**

Prerequisite: ME 370. The analysis and process design of engineering systems involving chemical reactions for which the rate of reactions must be considered. Rates of physical and chemical processes are considered; processes where energy and mass transfer as well as chemical kinetics are important. Thermodynamics and chemical kinetics involved in the design of homogeneous and heterogeneous reactors. Application to combustion systems and other environmental engineering systems.

**ME 575. APPLIED HEAT AND MASS TRANSFER (3)**

Prerequisite: ME 375. Continuation of ME 375 with emphasis on the convective modes of heat and mass transfer. Heat exchangers, evaporation, boiling, condensation, high speed flows and combined processes are considered. Application to design.
ME 590. ADVANCED FLUID DYNAMICS (3)
Prerequisites: ME 470 and ME 490. Analytical and computational techniques for the solution of fluid dynamic problems. Topics include: generalized one dimensional compressible flows, unsteady and two dimensional compressible flows, method of characteristics, compressible laminar and turbulent boundary layers, transition to turbulence, turbulent stress models and application of computational codes to the solution of practical problems.

ME 609. SIMULATION OF DYNAMIC MECHANICAL SYSTEMS (3)
Prerequisite: ME 501A. Application of numerical techniques to the dynamic analysis of moderate- and large-scale engineering systems. Emphasis is on mechanical systems described by continuous ordinary and partial differential equations, both linear and non-linear. State vector modeling, solution algorithms, and system simulation utilizing FORTRAN and FORTRAN based commercial simulation software are presented, with application to thermofluid, mechanical, and aerospace systems.

ME 630. COMPUTER-AIDED MACHINE DESIGN (3)
Prerequisite: ME 430 and ME 501A. Presentation of complex machine design problems. Evaluation of alternative solutions, utilizing computer-aided-design, analysis and optimization techniques. Performance sensitivity to tolerance stack-up, friction, wear; impact of material selection on allowable stress and heat transfer.

ME 670. ADVANCED TOPICS IN THERMODYNAMICS (3)
Prerequisite: ME 470 and ME 490. Advanced topics in thermodynamics emphasizing real fluid behavior and modeling. Interaction between thermodynamics, chemical kinetics, fluid mechanics and transport processes. Selected topics from microscopic thermodynamics applied to both equilibrium and nonequilibrium processes. Applications to real engineering systems will be stressed.

ME 675A. CONDUCTIVE & RADIATIVE HEAT TRANSFER (3)
Prerequisite: ME 375. Theory and applications of the conductive and radiative modes of heat transfer. Analytical and numerical methods for single and multi-dimensional steady state and transient conduction. Numerical and analytical techniques as applied to radiative exchanges between diffuse and specular surfaces and transfer through absorbing-transmitting media.

ME 675B. CONVECTIVE HEAT & MASS TRANSFER (3)
Prerequisite: ME 575. Theory and application of convective heat and mass transfer. Free and forced convection in laminar and turbulent flows. Heat transfer with change of phase. Mass transfer applications including ablation and transpiration cooling, condensation, and evaporation.

ME 678. TRANSPORT PHENOMENA (3)
Prerequisites: ME 575; ME 675B recommended. The basic equations of heat mass and momentum transfer. Mass transfer in binary and multicomponent systems. Analysis of combined heat, mass, momentum-transfer problems. Turbulence. Chemically-reacting flows.

ME 683. ENERGY PROCESSES (3)
Prerequisites: ME 575 and ME 670. The application of thermodynamic and transport processes to a design system for development of energy resources. Emphasis will be placed on new methods for the development of basic energy resources, and systems for the use and development of alternative energy sources. Topics to be considered include: Enhanced oil recovery, alternative resource technology (shale, tar sands, etc.), synthetic fuels, geothermal energy development, and other applications topics at the selection of the instructor. Processes for improved efficiency in utilization of energy resources will also be considered.

ME 684. DESIGN & CONTROL OF DYNAMIC SYSTEMS (3)
Prerequisites: ME 484. Design and control of mechanical systems. Time-domain, and state space methods integrated into the design of dynamic processes. Application to automotive, aircraft, spacecraft, robots and related mechanical/aerospace systems. Digital simulations.

ME 686. OPTIMAL DESIGN OF MECHANICAL SYSTEMS
Prerequisites: ME 384 and ME 501A; ME 501B recommended. Modeling of mechanical systems for design optimization; application of the latest methods, computer algorithms, and design software. Students propose a design term project and apply techniques to optimize design of proposed mechanical system.

ME 692. COMPUTATIONAL FLUID DYNAMICS (3)
Prerequisites: ME 309 and ME 490. Introduction to the numerical analysis of fluid flows. Special techniques required for solution of the governing equations for viscous, inviscid and boundary layer flows. Applications to convective heat and mass transfer. Turbulence modeling and other submodels for complex engineering applications.

ME 694. SEMINAR IN MECHANICAL ENGINEERING (1-3)
Consent of instructor. Advanced studies in selected areas of the field of Mechanical Engineering.

ME 695. SPECIAL TOPICS IN MECHANICAL ENGINEERING (1-4)

ME 696. DIRECTED GRADUATE RESEARCH (3)

ME 697. DIRECTED COMPREHENSIVE STUDIES (3)
CREDIT/NO CREDIT ONLY

ME 698. THESIS OR GRADUATE PROJECT (3)

ME 699. INDEPENDENT STUDY (1-3)
ENGLISH
Chair: Robert Noreen
Associate Chair: Donald Hall

COLLEGE OF HUMANITIES
Department Office: Sierra Tower, Room 708
Phone: (818) 677-3431
Secretary: Nancy Thompson
For information or clarification, contact:
Robert Noreen, Chair, 677-3434
Donald Hall, Associate Chair, 677-3409


ACADEMIC ADVISEMENT: All members of the English Department faculty participate in undergraduate advisement. Faculty should be consulted during their regularly scheduled office hours. For specific advisement in the major options, students should consult the following:

- Creative Writing Option: Professor Dorothy Barresi
- Contract Option: Professor Donald Hall
- Credential Option: please call department
- Graduate Program: Professor Sandra Stanley
- Honors Option: Professor Anthony Dawahare
- Literature Option: Professor Donald Hall

DEGREES OFFERED: BA Degree, Major in English, with option in Literature, Creative Writing, Honors, Credential, or Contract; BA Degree, Minor in English, with option in Literature or Creative Writing; Second BA Degree, Major in English, all options; MA Degree, Major in English with option in Literature, Creative Writing, or Rhetoric and Composition Theory.

DEPARTMENT PROGRAMS: The Department of English offers a wide variety of courses and programs in the fields of literature, language, and writing. One of several options may be selected by students who intend to adopt English as a major or minor, or courses may be taken as electives by non-majors who seek enrichment in the liberal arts. The undergraduate English Major--consisting of five options: Literature, Creative Writing, Credential, Honors, and Contract--is designed for students who desire to concentrate in one of the different fields subsumed under the broader category of “English.” Students are required to choose one of these options at the time they declare their English major. For further information concerning the choice of options or related career opportunities for those with a BA in English, see a departmental advisor or the Chair of the Department.

The LITERATURE OPTION focuses on the analytical reading of British and American literature.

The CREATIVE WRITING option provides students with the opportunity to develop narrative, verse, or playwriting skills while building a solid background of study in the literatures of Britain and America.

The CREDENTIAL OPTION of the English Major is designed for students who wish to prepare for a career in teaching English at the junior high or high school level.

The HONORS OPTION is a special program which enables students, by working independently and in seminars, to develop a strong academic background in preparation for postgraduate study in English. For admission to the Honors Program, see the Honors Advisor.

The CONTRACT OPTION is for those students who wish to design their own major, drawing primarily on courses from the department. The Contract Option reflects the student's specialized, thematic, or interdisciplinary interests.

The SECOND BA IN ENGLISH is available for students who, having completed the baccalaureate in another field, wish a second baccalaureate in the areas of literature, language, and writing. Postbaccalaureate credential candidates in English who are completing the subject matter preparation component of either the preliminary or clear credential may also wish to earn a second baccalaureate, and may do so through this option.

The MINOR IN ENGLISH is a 24-unit program designed for the student who wishes to have a secondary concentration in literature or creative writing. Though a minor is not required for a baccalaureate degree, many students find it desirable.

The MASTER OF ARTS IN ENGLISH consists of three options: Literature, Creative Writing, and Rhetoric and Composition Theory. The English Department offers a limited number of openings for Classified graduate students who wish to be Teaching Associates (TAs). TAs enroll in English 600A (for 3 units credit) and 600B, Problems in English as an Academic Subject, and normally teach, under supervision, one section of Freshman Composition per semester for a stipend. Other teaching opportunities may be available to second year TAs. For further information concerning choice of option or career opportunities, students should see the Graduate Advisor. To apply for a Teaching Associateship, students should see the Director of Composition.

The Department of English supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Program Study Centers in foreign countries are equivalent to courses in the Department of English and may be used to fulfill some of the requirements for degree options offered by the Department and/or certain general education requirements. For more information, students should consult the International Programs Bulletin available in the Office of International and Exchange Programs, a Departmental advisor, or the campus International Programs Advisor.

The Graduate Program of the department offers a CERTIFICATE IN THE TEACHING OF WRITING (15 units). The Certificate Program is designed to provide training for the teaching of writing in senior high schools, community colleges, four-year colleges, or universities. Any person admitted to graduate study in English, in the College of Education, or in other colleges/departments of the university may enroll in the courses leading to the
Certificate. Interested students should contact the Director of Composition in the English Department to learn about submitting a formal application.

PRIZES IN ENGLISH
The department offers a number of prizes for students who excel in their academic work, including the following. For further information on how to apply for these prizes, please see the Department Chair or the Associate Chair.

THE RACHEL SHERWOOD POETRY PRIZE
To commemorate Rachel Sherwood, her friends and colleagues have established an annual prize to be awarded by the Northridge Review to the author of the poem judged to be the best published in the magazine during the calendar year. The recipient, who must be a registered student for at least one semester during the year in which the poem is published, will be awarded one hundred dollars.

THE NORTHRIDGE REVIEW FICTION AWARD
The Northridge Review Fiction Award is an annual prize to be awarded by the Northridge Review to the author of the short story judged to be the best published in the magazine during the calendar year. The recipient, who must be a registered student for at least one semester during the year in which the story is published, will be awarded one hundred dollars.

THE OLIVER W. EVANS WRITING PRIZE
To commemorate Oliver W. Evans, a former Professor in the department, his colleagues and friends have established an annual prize of one hundred dollars to the best piece of prose, critical or creative, submitted in an upper division English course during the calendar year. Submissions will be nominated by the faculty and the award will be made by a committee appointed annually by the Department of English.

THE EVA LATIF WRITING PRIZE IN CHILDREN’S LITERATURE
To commemorate Eva Latif, a professor in the Department, her colleagues and friends offer a yearly prize of one hundred dollars to the author of the best piece of writing, critical or creative, by a student on the subject of children’s literature. Faculty will nominate submissions, and a committee of the Department of English will make the award.

THE MITCHELL MARCUS PRIZE IN ENGLISH
In memory of Mitchell Marcus, a former Professor in the Department, a prize of one thousand dollars is awarded to the graduate student who is best distinguished by excellence in her or his studies. Applications of currently enrolled classified graduate students are reviewed by a committee of faculty who make the award.

THE ANNAMARIE PETERSON MORLEY AWARD
In memory of Annamarie Peterson Morley, a former Professor in the Department, an award of $1000 is given to a student, currently enrolled as an English major at CSUN, who plans to enter the teaching profession at any level.

THE ROBERT APROBERTS HONORS ESSAY PRIZE
To commemorate Robert apRoberts, Professor Emeritus and founder of the Honors Program, an annual award of $150 is given to the English Honors student whose thesis is judged to be the best submitted during that academic year.

THE NORTHRIDGE WRITING PROJECT AWARD
An annual award of $500 is given to a graduate student enrolled in English and Secondary English Education, to help pay fees for graduate work.

CAREERS FOR ENGLISH MAJORS:
English Majors with the Credential Option gain the academic preparation for teaching careers at the junior high or high school level. Many students who obtain the MA in English find teaching positions at Community Colleges or proceed to doctoral programs which might lead to teaching careers at the university level. English studies also provide a good academic foundation for radio and television broadcasting, editing, writing, politics, film and library work, journalism criticism, advertising, public information, public relations, and technical writing. A recent study shows that English as a pre-professional major is valuable preparation for future careers in law, medicine, business, and federal service.

REQUIRED COURSES FOR THE BACHELOR OF ARTS DEGREE
OPTIO

LOWER DIVISION REQUIRED COURSES (9 UNITS)

ENGL 258 Major English Writers .................3
ENGL 259 Major English Writers II ...............3
ENGL 275 Major American Writers ...............3

UPPER DIVISION REQUIRED COURSES (30 UNITS)

A. Critical Writing (3 units)
ENGL 355 Writing about Literature ...............3
B. Literary Theory (3 units)
ENGL 436 Major Critical Theories ...............3
C. Literatures of Cultural Diversity (3 units)
ENGL 311 African-American Writing ..............3
ENGL 314 History of North American Indian Literature ..................3
ENGL 368 Gay Male Writers .................3
ENGL 369 Lesbian Writers .................3
ENGL 371 Issues in Jewish-American Writing ......3
ENGL 431 Images of Women in Literature ........3
ENGL 433 Women Authors .................3
ENGL 434 19th-Century Women Novelists ........3
ENGL 487 Latino/a Literature .................3

Consult an advisor for current courses in other areas such as Asian American and Chicano/a literature that may also satisfy this requirement.

D. British Literature (9 units)
Select one course from the following:
ENGL 414 Chaucer ....................3
ENGL 416 Shakespeare: Selected Plays ............3
ENGL 417 Shakespeare Survey ..................3
ENGL 418 English Drama to 1642 ...............3
ENGL 443 The Middle Ages ..................3
ENGL 449 The Renaissance .................3

Select one course from the following:
ENGL 419 English Drama 1660-1880 ...............3
ENGL 420 Milton ....................3
ENGL 452 Seventeenth Century English Literature ..3
ENGL 456 The Age of Enlightenment ...............3
ENGL 466 Major British Novelists I: 1700-1815 .......3

Select one course from the following:
ENGL 458 The Romantic Age ..................3
ENGL 460 The Victorian Age ..................3
ENGL 467 Major British Novelists II: 1815-1900 ......3
UPPER DIVISION REQUIRED COURSES (33 UNITS)

OPTION II: CREATIVE WRITING

TOTAL UNITS REQUIRED FOR DEGREE: 124

UPPER DIVISION ELECTIVES (9 UNITS)

SELECT ANY UPPER DIVISION ENGLISH COURSES EXCEPT:
ENGL 300, 305, 316, 364, 429.

TOTAL UNITS IN THE MAJOR, OPTION I (48 UNITS)

GENERAL EDUCATION (49 UNITS)

To meet the 52-unit GE requirement, students may double count 3 units from the lower division major requirements (258, 259, 275) for both GE-Humanities and for the major.

ADDITIONAL UNITS (18 UNITS)

Students majoring in English are encouraged to take a foreign language as part of their college program.

TOTAL UNITS REQUIRED FOR DEGREE: 124

OPTION II: CREATIVE WRITING

LOWER DIVISION REQUIRED COURSES (6 UNITS)

A. Creative Writing (3 Units)
ENGL 208 Introduction to Creative Writing ...............3

B. Literature (3 Units)
Select one from the following:
ENGL 258 Major English Writers I:.........................3
ENGL 259 Major English Writers II:.........................3
ENGL 275 Major American Writers .........................3

UPPER DIVISION REQUIRED COURSES (33 UNITS)

A. Critical Writing (3 Units)
ENGL 355 Writing About Literature .......................3

B. Literary Theory (3 Units)
ENGL 436 Major Critical Theories ........................3

C. Literatures of Cultural Diversity (3 Units)
Select one of the following:
ENGL 311 History of Afro-American Writing ...............3
ENGL 314 North American Indian Literature .............3
ENGL 368 Gay Male Writers ................................3
ENGL 369 Lesbian Writers ....................................3
ENGL 371 Issues in Jewish-American Writing ............3
ENGL 431 Images of Women in Literature .................3
ENGL 433 Women Authors ....................................3

E. American Literature (3 Units)
Select one course from the following:
ENGL 474 American Literature 1860-1912:.................3
ENGL 477 Major American Novelists I: Nineteenth Century..................3

F. Twentieth Century Literature (6 Units)
Select two courses from the following:
ENGL 427 Drama from Ibsen to the Present ...............3
ENGL 461 Modern British Literature .......................3
ENGL 462 Contemporary British Literature ...............3
ENGL 463A Modern Poetry ......................................3
ENGL 463B Contemporary Poetry ............................3
ENGL 468 Major British Novelists III: 1900-Present ..3
ENGL 475 American Literature 1912-1945 ..................3
ENGL 476 Contemporary American Literature ............3
ENGL 478 Major Am. Novelists II: Twentieth Century ........3

G. Senior Seminar (3 Units)
ENGL 495 Senior Seminar in Literature ..................3

F. Twentieth Century Literature (3 Units)
Select one of the following:
ENGL 474 American Literature 1860-1912:.................3
ENGL 477 Major American Novelists I: Nineteenth Century..................3

G. Creative Writing (9 Units)
Select three of the following (course may be repeated and counted as second course):
ENGL 308 Narrative Writing ....................................3
ENGL 309 Verse Writing .........................................3
ENGL 310 Playwriting .............................................3
ENGL 408 Advanced Narrative Writing ....................3
ENGL 409 Advanced Verse Writing ...........................3
ENGL 410 Advanced Playwriting ..............................3

H. Creative Writing Theory (3 Units)
Select one of the following:
ENGL 464 Theory of Poetry .....................................3
ENGL 465 Theory of Fiction ....................................3

I. Senior Seminar (3 Units)
Select one of the following:
ENGL 490 Sr. Seminar/Narrative Writing ..................3
ENGL 491 Senior Seminar/Verse Writing ..................3

UPPER DIVISION ELECTIVES (6 UNITS)

English 300, 305, 316, 364, 429 are not permitted as electives in this option.

TOTAL UNITS IN THE MAJOR, OPTION II (45 UNITS)
GENERAL EDUCATION (49 UNITS)
To meet the 52-unit GE requirement, students may double count 3 units from the lower division major requirements (258, 259, 275) for both GE-Humanities and for the major.

TITLE 5 (9 UNITS)
ADDITIONAL UNITS (21 UNITS)
Students majoring in English are encouraged to take a foreign language as part of their college program.

TOTAL UNITS REQUIRED FOR DEGREE: 124

OPTION III: ENGLISH CREDENTIAL
For an outline of the Credential Option in English, see the Credential Section of this catalog.

TITLE 5 (9 UNITS)
ADDITIONAL UNITS (21 UNITS)
Students majoring in English are encouraged to take a foreign language as part of their college program.

TOTAL UNITS REQUIRED FOR DEGREE: 124

OPTION IV: CONTRACT
The Contract Option allows students to design their own English major. Before completing 90 units, students may devise a program to reflect specialized or interdisciplinary interests.

REQUIREMENTS:
1. A written outline of proposed courses and a statement of objectives.
2. At least 45 semester units:
   a. 36 or more must be upper division.
   b. 24 or more of the 36 must be upper division units in English.
   c. The remaining units may be drawn from any discipline.
3. The evaluation and approval of the proposed program by a departmental committee of at least three faculty members. Students may present their proposed programs directly to the evaluating committee for consideration, or consult with one or more faculty advisors before submitting a list of courses.
4. Approval of the Department Chair. Upon acceptance of the program by the department, a program of study will be prepared and maintained in the student’s file.

TOTAL UNITS IN THE MAJOR, OPTION IV (45 UNITS)

GENERAL EDUCATION (49 UNITS)
To meet the 52-unit GE requirement, students may double count 3 units from the lower division major requirements (258, 259, 275) for both GE-Humanities and for the major.

TITLE 5 (9 UNITS)
ADDITIONAL UNITS (21 UNITS)
Students majoring in English are encouraged to take a foreign language as part of their college program.

TOTAL UNITS REQUIRED FOR DEGREE: 124

OPTION V: HONORS PROGRAM
Requirements for Admission to the Honors Option: The program leading to the BA degree with Honors in English offers students the opportunity to engage in various approaches to English Studies through courses, tutorials, and independent reading, writing, and research. Admission to the program--to begin normally in the first semester of the junior year--is by approval of the Chair of the English Department.

LOWER DIVISION REQUIRED COURSES (9 UNITS)
ENGL 258 Major English Writers .........................3
ENGL 259 Major English Writers II ......................3
ENGL 275 Major American Writers .......................3

UPPER DIVISION REQUIRED COURSES (24 UNITS)
A. Literary Theory (3 Units)
   ENGL 436 Major Critical Theories ......................3
B. Literatures of Cultural Diversity (3 Units)
   Select one course from the following:
   ENGL 311 African-American Writing
   ENGL 314 History of North American Indian
   Literature ................................................3
   ENGL 367 Gay Male Writers ................................3
   ENGL 368 Lesbian Writers ................................3
   ENGL 371 Issues in Jewish-American Writing ........3
   ENGL 431 Images of Women in Literature ............3
   ENGL 433 Women Authors ..................................3
   ENGL 435 9th-Century American Women Novelists ....3
   ENGL 487 Latino/a Literature ............................3
   Consult an advisor for current courses in other areas such as Asian American and Latino literature that may also satisfy this requirement.
C. Junior Honors Tutorials (6 Units)
   ENGL 392 Junior Honors Tutorial I ....................3
   ENGL 393 Junior Honors Tutorial II ..................3
D. Senior Honors Tutorials (6 Units)
   ENGL 492 Senior Honors Tutorial I ....................3
   ENGL 493 Senior Honors Tutorial II ..................3
E. Honors Thesis Project (3 Units)
   ENGL 497 Honors Thesis ..................................3

UPPER DIVISION ELECTIVES (15 UNITS)
Select 5 upper division courses from the English Department offerings, except English 300, 305, 316, 364, 428, and 429. With the prior approval of the Honor’s Coordinator, students may repeat English 392, 393, 492, and 493 once each for elective credit. To be graduated from the English Honors Program, a student needs a GPA of 3.5 or better in upper-division English courses.
MINOR IN ENGLISH
OPTION I. LITERATURE
LOWER DIVISION REQUIRED COURSES (6 UNITS)
Choose two of the following:
ENGL 258 Major English Writers I ..........................3
ENGL 259 Major English Writers II ..........................3
ENGL 275 Major American Writers ..........................3

UPPER DIVISION REQUIRED COURSES (15 UNITS)
ENGL 355 Writing About Literature ..........................3
British Literature before 1900 (3 units)
Select one course from the following:
ENGL 414 Chaucer .................................................3
ENGL 416 Shakespeare: Selected Plays .........................3
ENGL 417 Shakespeare Survey ...................................3
ENGL 418 English Drama to 1642 ...............................3
ENGL 419 English Drama 1660-1880 ...........................3
ENGL 420 Milton ....................................................3
ENGL 443 The Middle Ages .......................................3
ENGL 449 The Renaissance ......................................3
ENGL 452 Seventeenth Century English Literature ..........3
ENGL 456 The Age of Enlightenment ..........................3
ENGL 458 The Romantic Age ...................................3
ENGL 460 The Victorian Age ...................................3
ENGL 466 Major British Novelists I: 1700-1815 ..........3
ENGL 467 Major British Novelists II: 1815-1900 ........3
American Literature (3 Units)
Select one course from the following:
ENGL 473 American Literature 1607-1860 ..................3
ENGL 474 American Literature 1860-1912 ..................3
Twentieth Century Literature (3 Units)
Select one of the following:
ENGL 427 Drama from Ibsen to the Present .................3
ENGL 461 Modern British Literature ..........................3
ENGL 462 Contemporary British Literature .................3
ENGL 463A Modern Poetry ......................................3
ENGL 463B Contemporary Poetry ...............................3
ENGL 468 Major British Novelists III: 1900 to the Present 3
ENGL 475 American Literature 1912-1945 .................3
ENGL 476 Contemporary American Literature ..........3
ENGL 478 Major American Novel II: Twentieth Century 3
Senior Seminar
ENGL 495 Senior Seminar in Literature ........................3
(Senior standing required)

UPPER DIVISION ELECTIVES (3 UNITS)
Suggested: ENGL 311, 314, 368, 369, 371, 431, 433, 434, or 436.
Not Permitted as electives in this option:
ENGL 300, 305, 316, 364, 428, 429

OPTION II. CREATIVE WRITING
LOWER DIVISION REQUIRED COURSES (6 UNITS)
All students minoring in this option must complete the following lower division requirements.
ENGL 208 Creative Writing .......................................3
Choose one of the following (3 Units)
ENGL 258 Major English Writers I ..........................3
ENGL 259 Major English Writers II ..........................3
ENGL 275 Major American Writers ..........................3

UPPER DIVISION REQUIRED COURSES (15 UNITS)
LITERATURE
British and American Literature (3 Units)
Select one course from the following:
ENGL 414 Chaucer .................................................3
ENGL 416 Shakespeare: Selected Plays .........................3
ENGL 417 Shakespeare Survey ...................................3
ENGL 418 English Drama to 1642 ...............................3
ENGL 419 English Drama 1660-1880 ...........................3
ENGL 420 Milton ....................................................3
ENGL 443 The Middle Ages .......................................3
ENGL 449 The Renaissance ......................................3
ENGL 452 Seventeenth Century English Literature ..........3
ENGL 456 The Age of Enlightenment ..........................3
ENGL 458 The Romantic Age ...................................3
ENGL 460 The Victorian Age ...................................3
ENGL 466 Major British Novelists I: 1700-1815 ..........3
ENGL 467 Major British Novelists II: 1815-1900 ........3
ENGL 468 Major British Novelists III: 1900-Present .3
ENGL 475 American Literature 1912-1945 .................3
ENGL 476 Contemporary American Literature ..........3
ENGL 478 Major American Novelists II: Twentieth Century 3
Creative Writing (6 Units)
Select two of the following (courses may be repeated and counted as second course):
ENGL 308 Narrative Writing ......................................3
ENGL 309 Verse Writing ...........................................3
ENGL 310 Playwriting .............................................3
ENGL 408 Advanced Narrative Writing ........................3
ENGL 409 Advanced Verse Writing .............................3
ENGL 410 Advanced Playwriting ...............................3
Choose one from the following (3 Units)
ENGL 490 Sr. Seminar/Narrative Writing .....................3
ENGL 491 Senior Seminar/Verse Writing ......................3

UPPER DIVISION ELECTIVES (3 UNITS)
Suggested: ENGL 311, 314, 368, 369, 371, 431, 433, 434, or 436.
Not Permitted as electives in this option:
ENGL 300, 305, 316, 364, 428, 429

TOTAL UNITS REQUIRED FOR THE MINOR: 24.
(See the catalog entry for your major for a list of Bachelor’s Degree requirements.)

SECOND BACHELOR OF ARTS DEGREE IN ENGLISH
Students seeking a second BA in English in any of the options described above should consult the university regulations governing second degrees. Students admitted to the Second BA program must take at least 24 units in the English major in residence. To complete the major they must have a total of 36-48 units in English, the exact number to be determined by advisement. At least 24 of these units shall be upper division English courses; 6 units may be in
upper division courses outside of English with prior approval of the Department Chair. Students must, at their first registration for this program, obtain an evaluation of all earlier work in English.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

REQUIREMENTS FOR ADMISSION:

For admission to Classified status in the MA program in English, students need a bachelor’s degree from an accredited institution, a minimum of 24 semester units of approved upper division English courses with an average of 3.0 (B), completion of the Upper Division Writing Proficiency requirement, and an above-average (80th percentile) score on the verbal portion of the Graduate Record Examination (GRE). Students with a 3.6 GPA in upper-division English and a 3.0 (B) in the last 60 undergraduate units at the time of entrance are not required to take this examination.

An alternative method of meeting the GRE requirement is available to students who score below the 80th percentile. If the student’s GRE score and GPA in the first twelve units of graduate work balance according to the following table, and any necessary faculty recommendations are secured, then the requirement will be considered fulfilled.

The student must take the GRE at least once.

Minimum GPA  | GRE Verbal | CSULN Faculty
(first 12 units) | Score | Recommendations
3.50 - 4.00 | No minimum | Not required
3.40 | 500 | 2
3.20 | 520 | 2
3.10 | 540 | 2
3.00 | 560 | 2

Applicants who satisfy part of these requirements will be given Conditionally Classified status while they make up the deficiency, providing the B grade point average is maintained.

For the Master of Arts Degree: A minimum of 30 units of approved graduate work comprising the following Core Requirement and one option:

CORE REQUIREMENT (12 UNITS)

ENGL 638 Seminar in Critical Approaches to Literature ..........3
ENGL 604 Studies in the English Language .........................3
Two courses in literature at the 600 level .........................6

Select one of the following options:

OPTION I. LITERATURE. (18 UNITS)

ENGL 601 Seminar in Scholarly Methods and Bibliography ..........3
Three courses in literature .................................................9
Two courses, one of which may be a Thesis in Literature or Criticism (ENGL 698), selected with the approval of the Graduate Advisor .................................................................6
(Those not writing a thesis must select the Comprehensive Examination (ENGL 697). For regulations governing required registration for the examination, see the “Graduate Programs” section of the catalog.

OPTION II. CREATIVE WRITING (18 UNITS)

Applicants interested in the Creative Writing Option must first be admitted into the MA program in English and must submit a qualifying creative writing sample (10 pages of poetry, or 20 pages of fiction, or 30 pages of drama) to the Creative Writing Committee during the first semester of residency.

ENGL 652 Creative Writing Studies .....................................3
Three courses in creative writing ...........................................9
One course selected with the approval of the Graduate Advisor .................................................................3
Creative Writing Thesis (ENGL 698) (Consult with the Graduate Advisor) .................................................................3

OPTION III. RHETORIC AND COMPOSITION THEORY (18 UNITS)

Applicants interested in the Rhetoric and Composition Theory Option must first be admitted into the MA program in English and must submit a qualifying non-fiction writing sample (25 pages) during their first semester of residency.

ENGL 651 Rhetorical Theory and Composition .......................3
Four courses in rhetoric or composition or study of language (Strongly recommended: ENGL 661 Methods in Inquiry in Composition) .................................................................12
ENGL 698 Thesis in Rhetoric and Composition Theory (Consult with Option Advisor) ....................................................3

Notes:
1. In all options students may choose, with consent of the Graduate Advisor, two courses from the 400 level in English or outside the English Department that have been approved for graduate credit.
2. Students may receive credit for only two 608s (Seminar in Narrative Writing), two 609s (Seminar in Poetry Writing), three 620s (Seminar in Individual Authors), two 622s, two 623s, three 630s (Seminar in Literary periods), or six units of 699 (Independent Study).

CERTIFICATE PROGRAM IN THE TEACHING OF WRITING

(A non-degree Advanced Professional Development Program)

The Rhetoric and Composition Option offers a Certificate in the Teaching of Writing. The Certificate Program is designed to provide training for the teaching of writing in senior high schools, community colleges, four-year colleges, or universities. Any person admitted to graduate study in English, in the College of Education, or in other college/departments at the California State University, Northridge may enroll in the courses leading to the Certificate. Post-baccalaureate teachers in secondary schools also qualify. Program policy requires that a formal application be submitted before any coursework is taken for credit. Grades of “B or higher” are required. Program participants must take ENGL 651 and ENGL 661, and must earn nine additional units (six of which may come from writing intensive courses in their own discipline, e.g. a thesis). The program also requires evidence of at least one semester of mentoring, consulting, tutoring in the Learning Resource Center, serving as a teaching associate, student teaching, or other experience in writing instruction concurrent with the period of enrollment. Successful completion of the program must occur within two years.

Graduate students studying in the Rhetoric/Composition Option for the English MA will be automatically enrolled in the Certificate Program and awarded the Certificate, so long as they complete the Certificate’s required courses, ENGL 651 and ENGL 661, and meet the criteria for the Option.

Interested students should contact the Director of the Composition Program in the English Department to learn about submitting a formal application.
COURSE LIST

LOWER DIVISION

090. EXTEMPORANEOUS EXPOSITORY WRITING (3)
Prerequisite: Completion of the lower division writing requirement. Intensive practice in writing effective expository prose under test conditions. Primarily designed for students preparing to retake the Upper Division Writing Proficiency Examination. Credit for 090 does not guarantee passing the Upper Division Writing Proficiency Examination. Available CR/NC only.

097. DEVELOPMENTAL READING (3 UNITS UNIV. CREDIT; NO CREDIT TOWARD GRADUATION)
Intensive study of basic reading skills, focusing on the types of reading students will do in college. Class meets three hours per week; individual tutoring is available in the Learning Resource Center. Students whose reading score on the English Placement Test indicates serious deficiencies are required to pass this course before taking English 098. Available on CR/NC basis only.

098. DEVELOPMENTAL WRITING (3 UNITS UNIV. CREDIT; NO CREDIT TOWARD GRADUATION)
Intensive study of basic writing skills with focus on students' own writing. Class meets three hours per week; individual tutoring is available in the Learning Resource Center. Students whose score on the placement test indicates serious deficiencies in basic skills are required to take this course. Grade of credit required to enter English 155. Available on a CR/NC basis only.

155. FRESHMAN COMPOSITION (3)
Prerequisite: EPT score of 151 or better, or EPT and a grade of Credit in 097 and/or 098, if appropriate. A course in expository writing designed for freshmen and transfer students who have not taken freshman composition elsewhere. Its emphasis is on both content and form: to help students express ideas and convey information in writing with logical reasoning and adequate factual support and with clarity of purpose, organization, and language. Beyond these fundamental concerns the course encourages and assists students to develop a degree of grace and style which will make their writing not only clear and convincing, but interesting and readable. Students will receive credit for only one course chosen from Chicano Studies 155, English 155, and Pan African Studies 155. (Available for General Education, Basic Subjects.)

196A-Z. EXPERIMENTAL COURSES IN ENGLISH (1-3)

208. CREATIVE WRITING (3)
Prerequisite: Completion of the lower division writing requirement. An introductory workshop course in creative writing. Students will have the option of concentrating on one of three modes: prose fiction, poetry, or drama. This course is part of the writing option in English. (Available for General Education, Humanities.)

255. INTRODUCTION TO LITERATURE (3)
Prerequisite: Completion of the lower division writing requirement. An introductory study of the genres of imaginative literature—prose fiction, poetry, and drama—with special emphasis on the interrelationships between form and theme. Critical writing is an integral part of the course. (Available for General Education, Humanities.)

258. MAJOR ENGLISH WRITERS I (3)
Prerequisite: Completion of the lower division writing requirement. A study of works of major English writers from the Middle Ages to Samuel Johnson, with attention to literary movements and backgrounds. Critical writing required. (Available for General Education, Humanities.)

259. MAJOR ENGLISH WRITERS II (3)
Prerequisite: Completion of the lower division writing requirement. A study of works of major English writers—from Blake to the present, with attention to literary movements and backgrounds. Critical writing required. (Available for General Education, Humanities.)

275. MAJOR AMERICAN WRITERS (3)
Prerequisite: Completion of the lower division writing requirement. Study of the important works of a selected number of American writers from the colonial period to modern times. Critical writing required. (Available for General Education, Humanities.)

280. WORKSHOP IN MINORITY CREATIVE WRITING (3)
Prerequisite: Completion of the lower division writing requirement. An introductory workshop course in minority creative writing. Students will experiment with the three genres: prose fiction, poetry, and drama. In addition, students will have the opportunity to meet and work with distinguished professional minority writers. (Same as ChS 280 and PAS 280.) Students should consult with the instructor about the semester's syllabus, and the minority literature concentration. (Available for General Education, Humanities.)

296A-Z. EXPERIMENTAL COURSES IN ENGLISH (1-3)

UPPER DIVISION

300. CONTEMPORARY LITERATURE (3)
Prerequisite: Completion of the lower division writing requirement and upper division standing. A study and analysis of selected major works of fiction, poetry, and drama and major authors since approximately the end of World War II in England and America. Not allowed for credit in the English major and minor. Critical writing required. (Available for General Education, Humanities.)

301. LANGUAGE AND LINGUISTICS (3) (Formerly 401)
Prerequisite: Completion of the lower division writing requirement. An introduction to linguistic science, its background, development, and relation to other fields of study; recent developments in the study of language. (Available for Section C of the Multicultural Requirement for Credential Candidates.)

302. INTRODUCTION TO MODERN GRAMMAR (3) (Formerly 404)
A basic course in grammar, traditional, structural, and transformational; some applications of linguistics to the teaching of English and the language arts are suggested.

305. INTERMEDIATE EXPOSITORY WRITING (3)
Prerequisite: Completion of the lower division writing requirement. This intermediate course in written expository writing includes a study of the style of competent writers and extends the writing skills acquired by students in the Freshman Composition course. Emphasis is placed on developing writing that exhibits clarity, coherence, style, and a clear purpose. This course provides preparation for the Upper Division Writing Proficiency Exam and satisfies the writing requirement in the Liberal Studies major.

306. REPORT WRITING (3)
Prerequisite: Completion of the lower division writing requirement. Techniques for writing scientific and technical reports and articles.
307. ADVANCED EXPOSITION FOR ENGLISH MAJORS AND MINORS (3)
Prerequisite: Completion of the lower division writing requirement. Study of rhetorical principles and advanced practice in expository writing.

308. NARRATIVE WRITING (3-3)
Prerequisite: English 208 or demonstrated proficiency. Intensive practice in narrative writing with emphasis on short fiction; analysis and criticism of students' work as well as analysis of selected published writings. May be elected a second time.

309. VERSE WRITING (3-3)
Prerequisite: English 208 or demonstrated proficiency. Intensive practice in writing poetry; analysis and criticism of students' work as well as some critical study of published verse. May be elected a second time.

310. PLAYWRITING (3-3)
Prerequisite: English 208 or demonstrated proficiency. Intensive practice in writing drama for stage, radio, and television; analysis and criticism of students' work, including laboratory production through college facilities. May be elected a second time.

311. HISTORY OF AFRICAN-AMERICAN WRITING (3) (FORMERLY 411)
Prerequisites: At least one university-level course in literature and completion of the Lower Division Writing Requirement. The course will focus on the development of the major genres in African-American writing from the beginning to the present, relating them to the larger movements in American culture. Critical writing required. (Available for General Education, Comparative Cultural Studies.)

312. LITERATURE AND FILM (3)
A study of selected literary works that have been made into films, as well as an exploration of the adapted films themselves and of the change in emphasis and meaning when literature is translated into or adapted to film.

313. STUDIES IN POPULAR CULTURE (3)
A cultural studies course focusing on the interpretation of American popular culture. Course methodology may include Marxist, psychoanalytic, semiotic, or culturally eclectic scholarly points of view. Designed for students who may want to enter the fields of entertainment or advertising, or future teachers who may want to use popular culture in their classrooms, this course will survey the products of popular culture as signifiers of larger cultural forces and realities. Available as an elective in all options of the major and minor. (Available for General Education Section E, Applied Arts and Sciences.)

314. NORTH AMERICAN INDIAN LITERATURE (3)
Prerequisite: Completion of the lower division writing requirement. A survey of North-American Indian literatures, including traditional oral forms, autobiographies, and contemporary poetry and prose.

316. SHAKESPEARE (3)
Prerequisite: Completion of the lower division writing requirement and upper division standing. An introductory study of representative poems and plays. Attendance at performances and/or films required. Not allowed for credit in the English major or minor. Critical writing required. (Available for General Education, Humanities.)

355. WRITING ABOUT LITERATURE (3)
Prerequisites: Completion of the lower-division writing requirement and two lower-division English courses. Intensive study of the literary genres of poetry, prose fiction, and drama. Emphasis on written analysis of selected works in each genre. Development of criteria for responsible judgment.

360. THE ENGLISH BIBLE AS LITERATURE (3)
Prerequisite: Upper division standing. Study of form, theme, and style in the King James Version of the Bible.

363. STUDY OF POETRY (3)
Prerequisite: Completion of the lower division writing requirement. Intensive study of representative poems in English from the Middle Ages to the present. Exercises in explication of the various modes of poetic expression. Development of criteria for responsible judgment. Emphasis on critical analysis of selected poems; critical writing required. A large part of class activity to be discussion.

364. THE SHORT STORY (3)
Prerequisite: Completion of lower division writing requirement and upper division standing. A study of the short story, beginning with careful examination of some classics in the genre, followed by analysis of more contemporary works. Not allowed for credit in the English major or minor. Critical writing required. (Available for General Education, Humanities.)

368. GAY MALE WRITERS (3)
Prerequisite: Completion of lower division writing requirement. This course will examine works in British and American literature that: a) were written by gay men, and b) portray the lives of gay individuals. Focusing primarily on texts written since the late nineteenth century, it will trace the development of gay male self-representation in poetry, novels, short fiction, drama, and nonfiction.

369. LESBIAN WRITERS (3)
Prerequisite: Completion of lower division writing requirement. This course will primarily focus on the work of lesbian writers of the twentieth century. Using the approaches of current feminist literary theorists, the course will explore the diversity and intersections of lesbian literary traditions. It will also examine the extent to which lesbian writers have followed and/or altered genre conventions in fiction and poetry.

370. SCIENCE FICTION (3)
A study of selected short stories, essays, and novels of science fiction.

371. ISSUES IN JEWISH-AMERICAN WRITING (3) (Formerly 471)
Prerequisite: Completion of the lower division writing requirement. A study of Jewish writing in America as it affects the relationship between Jewish issues and themes and American culture, based on the works of such authors as I. B. Singer, Roth, Bellow, Malamud, Cahan, Paley, Olsen, Shapiro, Ozick, and Potok. Critical writing required. (Available for General Education, Comparative Cultural Studies.)

372. EROTICISM IN LITERATURE (3)
A study of selected literary works which focus on the erotic as a major theme. Emphasis on philosophical and psychological aspects of the erotic in literature and the relationship of the erotic to society and culture.
392. JUNIOR HONORS TUTORIAL I (3)
Prerequisite: Admission to the Honors Program. An introduction to literary history with emphasis on the role of tradition and influence. May be taken in any sequence with English 393.

393. JUNIOR HONORS TUTORIAL II (3)
Prerequisite: Admission to the Honors Program. An introduction to practical criticism through a study of critical methods and their application to various literary works, with some attention to bibliography and scholarly method. May be taken in any sequence with English 392.

396A-Z. EXPERIMENTAL COURSES IN ENGLISH (1-3)

400. HISTORY OF THE ENGLISH LANGUAGE (3)
Developments in the English language from Old English through Middle English, Early Modern English, and Modern English. American English and its heritage. Influences from other languages as well as internal linguistic processes in English itself.

402. STRUCTURAL GRAMMAR (3)
Prerequisite: English 301 or 302. A review of the findings of structural-descriptive linguistics as applied to English grammar. Analysis of the phonological, morphological, and syntactic structures which form English sentences.

403. TRANSFORMATIONAL GENERATIVE GRAMMAR
Prerequisite: English 301 or 302. A review of the findings of transformational-generative linguistics as applied to English grammar. Analysis of the phrase structure units which comprise kernel sentences and of the basic transformations which generate English sentences.

405. LANGUAGE DIFFERENCES & LANGUAGE CHANGE (3)
Prerequisite: Completion of the lower division writing requirement. A study of how and why language changes, with particular emphasis on the history of English, social and geographical dialects, current English usage, and lexicography. A brief review of phonology and grammar will be included for those students who need it. (Available for Section C of the Multicultural Requirement for Credential Candidates.)

406. ADVANCED EXPOSITORY WRITING FOR TEACHERS (3)
Prerequisite: Completion of the lower division writing requirement. This advanced course in written composition and recent composition theory extends the student’s writing skills, explores the kind of writing required of California public school students, and establishes criteria for the evaluation of writing at all levels. Required of candidates working for the single subject credential in English; an option for candidates in Liberal Studies working for the multiple subjects credential.

407. COMPOSITION AND THE PROFESSIONS (3)
Prerequisites: Demonstrated proficiency; consent of the instructor. A course in advanced composition, logical thinking, and coherent expression designed particularly for students who wish to use their writing and analytic skills in the professions of law or medicine, government or community services, business, industry, or non-teaching educational and research services.

408. ADVANCED NARRATIVE WRITING (3-3)
Prerequisite: English 308. Continued practice in the writing of prose fiction, with a concentration on experimentation in style and structure. Analysis and criticism of students’ work. May be repeated once for credit.

409. ADVANCED VERSE WRITING (3-3)
Prerequisite: English 309. Continued practice in the writing of poetry with emphasis on formal poetic patterns. Analysis and criticism of students’ work as well as study of selected published verse. May be repeated once for credit.

410. ADVANCED DRAMATIC WRITING (3-3)
Prerequisite: English 310. Continued practice in dramatic writing leading to the completion of a full length drama. Analysis and criticism of students’ work as well as study of selected plays. May be repeated once for credit.

412. LITERARY MAGAZINE (3-3)
Prerequisite: Upper-division standing. Editing and publishing of Northridge Review, a literary magazine. Reading and evaluating manuscripts, editing, production. May be repeated once with instructor’s approval. A maximum of 6 units may be counted for credit.

413. TUTORIZN IN COMPOSITION (4)
A seminar/laboratory course designed to train writing tutors. Seminar: study of principles of rhetoric, the process of composition, evaluation of student writing, grammar and usage, study skills. Laboratory: tutoring in a lower division writing class. Prerequisite: 3.0 GPA, demonstrated writing ability, approval of instructor. Three hours of lecture, two hours of laboratory per week.

414. CHAUCER (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of The Canterbury Tales and selected other poems.

416. SHAKESPEARE: SELECTED PLAYS (3)
A close study of three to five plays. English 416 and 417 may be taken separately or in any sequence.

417. SHAKESPEARE: A SURVEY (3)
A study of eight to fifteen of the major plays. English 416 and 417 may be taken separately or in any sequence.

418. ENGLISH DRAMA TO 1642 (3)
A study of English drama (exclusive of Shakespeare) from its beginning to the closing of the theaters, including major figures such as Marlowe, Jonson, and Webster.

419. ENGLISH DRAMA 1660-1880 (3)
A study of significant plays in England, 1660-1880, with special emphasis on major dramatists such as Wycherley, Dryden, Congreve, Otway, and Sheridan.

420. MILTON (3)
A study of Paradise Lost, other poems, and selected prose.

423. THE GREEK AND ROMAN EPIC IN TRANSLATION (3)
This course will trace the development of the epic genre in antiquity. Emphasis will be on readings from Homer’s Iliad and Odyssey, and Virgil’s Aeneid. (Same as MCLL 423.)

424. DRAMA OF GREECE AND ROME (3)
Analysis of major Greek and Roman plays as literature and as works for the theater. (Same as MCLL 424.)

426. DRAMA FROM 1660 TO IBSEN (3)
Study of significant plays of the Neo-classic period, Romanticism, Realism, and Naturalism. (Same as MCLL 426.)

427. DRAMA FROM IBSEN TO THE PRESENT (3)
Development of significant theater movements in Europe and America; intensive study of selected plays. (Same as MCLL 427.)
428. CHILDREN'S LITERATURE (3)
Prerequisite: One lower-division course in literature. Study of form, content, and theme in children's literature, classic and contemporary, from pre-school through ninth-grade level.

429. LITERATURE FOR ADOLESCENTS (3)
Critical analysis of selected literary works of interest to adolescents, including works commonly used in secondary schools (grades 7-12); development of principles for the evaluation of literature for adolescents.

430. LITERATURE AND THE VISUAL ARTS (3)
A study of literature from the perspective of its relationships with the visual arts, including fields such as literary pictorialism, the sister arts tradition, inter-media stylistic, and book illustration.

431. IMAGES OF WOMEN IN LITERATURE (3)
Prerequisite: Completion of 3 units of lower division literature. A study of the images of women in literature and criticism, primarily by women themselves. Emphasis on the diversity of contemporary portrayals and their traditional backgrounds.

432. WOMEN AUTHORS (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of literature (poetry and prose) by prominent English and American women authors from earliest times to the present.

434. 19TH-CENTURY WOMEN NOVELISTS (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of selected novels by important 19th-century women novelists, both British and American, including such writers as Alcott, Austen, C. Brontë, E. Brontë, Chopin, Eliot, Gaskell, Gilman, and Stowe. The course examines both text and context for each novel studied in order to suggest why these women chose to be writers, why they chose the subjects they did, and how their works have been received by readers.

436. MAJOR CRITICAL THEORIES (3)
Study of major texts of literary criticism from Plato to the present. Emphasis on application of critical theories.

438. CRITICAL APPROACHES TO LITERATURE (3)
Application of basic topics of practical criticism—rhetorical, formal, contextual, psychological, and archetypal—to a selected core of literary texts. Emphasis on critical writing.

443. ENGLISH LITERATURE OF THE MIDDLE AGES (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of the literature of England to 1500, including representative Old English secular and religious poems, and such Middle English authors as Chaucer, Langland, the Pearl Poet, Gower, and Malory, and such medieval genres as the romance, the lyric, the ballad, and the drama. Some works will be read in modern English versions.

449. THE ENGLISH RENAISSANCE (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of the non-dramatic literature and of the culture of England from 1500 to 1603.

452. SEVENTEENTH CENTURY LITERATURE (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of the non-dramatic literature and of the culture of England from the death of Elizabeth I to the Glorious Revolution.

456. THE AGE OF ENLIGHTENMENT (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of the literature and culture of England, 1660-1800. Emphasis on major authors such as Dryden, Pope, Swift, Montagu, Behn, and Johnson, with examples of the novel and the drama.

458. THE ROMANTIC AGE (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of the literature and culture of England during the Romantic period, with special emphasis on the major poets, including Blake, Wordsworth, Coleridge, Shelley, Keats, and Byron.

460. THE VICTORIAN AGE (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of the literature and culture of England, 1837-1901, with special emphasis on the major writers of the age, including Tennyson, Arnold, and Browning.

461. MODERN BRITISH LITERATURE (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of British Literature, 1900 to 1939, and of the cultural forces which helped shape it. Emphasis on major writers such as Yeats, Joyce, Lawrence, Woolf, and Shaw.

462. CONTEMPORARY BRITISH LITERATURE (3)
(Formerly 375)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of British Literature, 1939 to the present, and of the cultural forces which helped shape it. Emphasis on major writers such as Beckett, Auden, Pinter, Drabble, and Fowles.

463A. MODERN POETRY (3) (Formerly 463)
An intensive study and analysis of the poems of major English language authors between 1912-55, including such writers as Yeats, Eliot, Pound, H. D., Crane, Jefferies, Toomer, L. Hughes, Lawrence, Auden, Moore, Stevens, Williams, and Cummings.

463B. CONTEMPORARY POETRY (3)
Prerequisites: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. An intensive study and analysis of the poems of major English language authors since 1955, including such writers as Robert Lowell, Sylvia Plath, John Berryman, Adrienne Rich, Allen Ginsberg, James Wright, John Ashbery, Amiri Baraka, Maxine Kumin, Rita Dove, and Seamus Heaney.

464. THEORIES OF POETRY (3)
Intensive study of the theories and craft of poetry.

465. THEORIES OF FICTION (3)
Intensive study of the theories and craft of fiction.

466. MAJOR BRITISH NOVELISTS I: 1700-1815 (3)
A study of selected major novels by authors such as Defoe, Richardson, Fielding, Sterne, and Austen. English 466, 467, 468 may be taken separately or in any sequence.

467. MAJOR BRITISH NOVELISTS II: 1815-1900 (3)
A study of selected major novels by authors such as Scott, Dickens, C. Brontë, E. Brontë, Thackeray, George Eliot, Trollope, and Hardy. English 466, 467, 468 may be taken separately or in any sequence.

468. MAJOR BRITISH NOVELISTS III: 1900 TO THE PRESENT (3)
A study of selected major novels by authors such as Conrad, Forster, Lawrence, Joyce, Murdoch, Bowen, and Woolf.
English 466, 467, 468 may be taken separately or in any sequence.

470A-Z. MAJOR AUTHOR(S) (3)
Prerequisite: 6 units of lower division literature coursework or 3 units of lower-division literature coursework and English 355. A study in depth of a single author or a comparative study of two authors, such as Swift, Hawthorne, Woolf, Morrison/Faulkner, Williams/Lawrence. The author(s) studied will change from semester to semester.

473. AMERICAN LITERATURE: 1607-1860 (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. Study of the literature and the culture of the colonial period, the early republic, and the romantic period.

474. AMERICAN LITERATURE: 1860-1912 (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. Study of the literature and the culture of the age of realism.

475. AMERICAN LITERATURE: 1912-1945 (3)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. Study of the literature and culture of earlier twentieth century America from the poetic renaissance through World War II. Emphasis on major writers such as Frost, Hemingway, Eliot, Wharton, Fitzgerald, Faulkner, Stevens, Cather, Moore, and Porter.

476. CONTEMPORARY AMERICAN LITERATURE (3)
(Formerly 385)
Prerequisite: 6 units of lower-division literature courses or 3 units of lower-division literature and English 355. A study of the literature and culture of America from 1945 to the present. Emphasis on major writers such as Bellow, Albee, Lowell, Williams, Welty, Morrison, Rich, O’Connor, and Pynchon.

477. MAJOR AMERICAN NOVELISTS I: THE NINETEENTH CENTURY (3)
Study of selected works by major American writers such as Cooper, Hawthorne, Melville, Twain, Chopin, and James. English 477 and 478 may be taken separately or in any sequence.

478. MAJOR AMERICAN NOVELISTS II: THE TWENTIETH CENTURY (3)
Study of selected works by major American writers such as Fitzgerald, Hemingway, Cather, Wharton, Faulkner, McCullers, Bellow, Morrison, O’Connor, and Updike. English 477 and 478 may be taken separately or in any sequence.

479. ASIAN LITERATURE IN TRANSLATION (3)
A survey of the great works of the major Asian traditions, including Islamic, Hindu, Buddhist, Confucian, and Taoist classics. (Same as MCLL 479.)

480. GREEK AND ROMAN LITERATURE IN TRANSLATION (3)
Study of representative works of classical literature in translation, and a consideration of their contributions to Western thought. (Same as MCLL 480.)

483. EUROPEAN LITERATURE: MODERN TIMES (3)
Study of representative European works from 1700 to the present; consideration of their contribution to Western thought. (Same as MCLL 483.)

485. MAJOR RUSSIAN WRITERS (3)
Study of major Russian writers with emphasis on writers of the pre-revolutionary period. (Same as MCLL 485.)

486. GERMANIC LITERATURE IN TRANSLATION (3)
Study of representative German and Scandinavian works from the medieval age to modern times. (Same as MCLL 486.)

487. LATINO/A LITERATURES OF THE AMERICAS (3)
Prerequisite: English 275. Recommended: English 436. A study of selected works of Latina and/or Latino writers from both the United States and Latin America, as well as of issues raised by critics and theorists in the field. Analysis of primary texts will employ methods of contemporary literary criticism. Topic or theme selected by instructor.

488. MAJOR EUROPEAN NOVELISTS I: LACLOS TO ZOLA (3)
Study of selected works by outstanding Continental writers of the late eighteenth through the nineteenth centuries. (Same as MCLL 488.)

489. MAJOR EUROPEAN NOVELISTS II: PROUST TO CAMUS (3)
Study of selected works by outstanding Continental writers of the twentieth century. (Same as MCLL 489.)

490. SENIOR SEMINAR IN NARRATIVE WRITING (3)
Prerequisite: Senior standing. Preparation of a collection of short stories or of a single longer work of narrative fiction. Students complete, revise, and supplement their work to produce a finished manuscript of narrative fiction.

491. SENIOR SEMINAR IN VERSE WRITING (3)
Prerequisite: Senior standing. Preparation of a collection of poems or of a single long poem. Students complete, revise, and supplement their work to produce a finished manuscript of poetry.

492A-Z. SENIOR HONORS TUTORIAL I (3-3)
Prerequisite: Senior Honors standing. Intensive study of a literary figure, age, movement, or problem. English 492 and 493 may be taken in any sequence. May be repeated once.

493A-Z. SENIOR HONORS TUTORIAL II (3-3)
Prerequisite: Senior Honors standing. Intensive study of a literary figure, age, movement, or problem. English 492 and 493 may be taken in any sequence. May be repeated once.

494IP. ENGLISH INTERN PROGRAM (3-3) (Formerly 411)
Prerequisite: English 407. Students will be placed by the Faculty Supervisor with sponsoring organizations, where they will work as writers approximately 10 hours per week. Specific duties will be assigned by sponsors. Students will compile a portfolio of writing done for the sponsor and a term report of the experience. May be repeated once for credit.

494TCE. HIGH SCHOOL INTERNSHIP: WRITING AND THE CLASSROOM EXPERIENCE (3)
Prerequisite: completion of, or current enrollment in, at least one upper-division writing course and consent of instructor. Interns are required to work for at least 10 hours per week with high school students at a high school site to develop and enhance writing skills. Interns will be supervised on site by the high school English faculty and directed by the 494TCE instructor. Interns will also be required to keep journals and will be graded on assigned essays.

495A-Z. SENIOR SEMINAR IN LITERATURE (3-3)
Prerequisite: Senior standing and either two lower-division courses in literature or 3 units of lower-division literature and ENGL 355. Intensive study of a major British or American author or of a literary theme or sub-genre. Reports and seminar papers required. Topics will change from semester to semester. May be repeated once.
496A-Z. EXPERIMENTAL COURSES IN ENGLISH (1-3)

497. HONORS THESIS (3)
Prerequisite: Senior Honors standing. The writing of an Honors thesis in either American or English Literature under the supervision of a member of the faculty. Requirements as to form are the same as those for the Master’s thesis; consult the Honors Advisor.

499. INDEPENDENT STUDY (1-3)
Prerequisite: Upper-division standing, normally a 3.0 GPA in English, and prior approval of sponsoring instructor and Department Chair.

GRADUATE
300-level courses in English do not carry credit for the MA in English; a maximum of six units of 400-level courses in English may carry credit for the MA in English only if they are approved by the Graduate Advisor. Graduate standing is required as a prerequisite for enrollment in all 600-level courses.

595A-Z. SPECIAL TOPICS IN ENGLISH (1-3)
Topics will be announced in the Schedule of Classes for each semester.

600AB. PROBLEMS IN ENGLISH AS AN ACADEMIC SUBJECT (3) (Formerly 500AB)
Study of significant problems in the development of English as an academic subject. Review of current studies in language, rhetoric, and literature. 600A and 600B restricted to those teaching English 155.

601. SEMINAR IN SCHOLARLY METHODS AND BIBLIOGRAPHY (3) (Formerly 501)
Study of traditional and electronic methods of scholarly research. Investigation and evaluation of major areas of bibliographic study, such as literature and “new historicism,” the editing of texts, and literary influence studies and intertextuality.

604. STUDIES IN THE ENGLISH LANGUAGE (3) (Formerly 504)
An examination of the major approaches to the study of the English language.

605. SEMINAR IN DESCRIPTIVE LINGUISTICS (3) (Formerly 505)
Discussion of the levels of analysis, phonology, morphology, and syntax from the viewpoint of such scholars as DeSaussure, Bloomfield, Sapir, Whorf, Harris, Hockett, et al.

606. PRINCIPLES OF INTERLANGUAGE (3) (Formerly 506)
Prerequisite: ENGL 301, or equivalent; or ENGL 604. Basic principles of contrastive analysis, error analysis and language transfer as applied to processes and strategies used in learning additional languages. Focus on the acquisition of English as a second language.

608. SEMINAR IN NARRATIVE WRITING (3-3) (Formerly 508)
Prerequisites: Qualified standing in the graduate creative writing option or permission of instructor. Intensive practice in advanced writing and analysis of the short story and the novel. Course may be repeated once for credit. One enrollment in 608 or 609 may be used in the Rhetoric and Composition Theory option.

609. SEMINAR IN POETRY WRITING (3-3) (Formerly 509)
Prerequisites: Qualified standing in the graduate creative writing option or permission of the instructor. Intensive practice in the writing of poetry, with attention to both contemporary and historical techniques; analysis and criticism of students’ work. May be repeated once for credit.

One enrollment in 608 or 609 may be used in the Rhetoric and Composition Theory option.

610. SEMINAR IN TRANSFORMATIONAL GENERATIVE GRAMMAR (3) (Formerly 510)
Prerequisite: ENGL 301, or equivalent; or ENGL 604. Survey of TG and current alternative theories.

611. SEMINAR IN HISTORICAL LINGUISTICS (3) (Formerly 511)
Prerequisite: ENGL 301, or equivalent; or ENGL 400; or ENGL 405. Study of the principles of historical comparative methodology through changes in phonology, morphology, syntax, vocabulary, and semantics.

612. STYLISTICS (3)
Contemporary theories of style with practice in examining stylistic choices in the language of literary and non-literary texts. Focus on the relationship between language form and discourse meaning. Comparative analysis of linguistic, rhetorical, and literary perspectives on style and their implications for students, writers and teachers of composition.

617. STUDIES IN SHAKESPEARE (3) (Formerly 517)
Prerequisite: English 417 (or equivalent). Advanced study of several of Shakespeare’s works including formal, textual, or historical aspects. Topics will change from semester to semester.

620A-Z. SEMINAR IN INDIVIDUAL AUTHORS (3-3-3) (Formerly 520A-Z)
Study in depth of one major British or American author, such as Swift, Hawthorne, or Woolf. The author studied will change from semester to semester.

620A. SEMINAR IN CRITICAL APPROACHES TO LITERATURE (3-3) (Formerly 530AB)
Study of major critical approaches to literature and their application to selected literary texts.

622. SEMINAR ON ASPECTS OF POETRY (3-3) (Formerly 522)
Intensive critical study of the province of poetry, providing opportunity for the scrutiny of individual poets as well as for concentration on the wider historical perspective.

623. SEMINAR IN STUDIES IN PROSE FICTION (3-3) (Formerly 523)
Seminar in the theory, forms, traditions, and techniques of prose fiction. Topics will vary from semester to semester.

624. STUDIES IN DRAMATIC LITERATURE (3) (Formerly 524)
Advanced study in drama considered as literature, with special emphasis on historical developments and their relationship to literary periods and movements in other genres.

630A-M. SEMINAR IN LITERARY PERIODS (3-3-3) (Formerly 530A-M)
Study of a period of British or American literature with wide readings in a range of authors and their intellectual backgrounds.

638. SEMINAR IN CRITICAL APPROACHES TO LITERATURE (3) (Formerly 538)
Study of major critical approaches to literature and their application to selected literary texts.

650. TWENTIETH CENTURY RHETORIC (3) (Formerly 550)
Twentieth Century Rhetoric focuses on major rhetorical theories and their relationship to literary criticism, linguistics, and language philosophy; competing paradigms of the rhetoric of written composition; and implications of rhetorical theories for students and teachers of literature and composition.
651. RHETORICAL THEORY & COMPOSITION (3)  
(Formerly 551)  
An intense analysis of modern rhetorical principles with frequent writing. Concentration on writing for an audience and discovering and developing personal style.

652. CREATIVE WRITING STUDIES (Formerly 552)  
Prerequisite: Qualified standing in the graduate creative writing option or permission of instructor. An introduction to the theoretical, professional and institutional concerns of creative writers, especially in an academic context. Intensive practice in creative writing (multi-genre). Workshop format.

655. STYLES AND FORMS OF PROFESSIONAL WRITING (3)  
(Formerly 555)  
Prerequisite: Permission of instructor. An introduction to professional writing in fiction and non-fictional prose. Writing practice on a short story, review, and essay; study of these forms. Emphasis on forming, revising, and editing in a workshop format.

660. WRITING AND THE DEVELOPMENTAL STUDENT (3)  
A study of major issues in the developmental writing field of Composition Studies. Students will examine the writing, reading and critical thinking processes and their implications for the developmental students, ESL and non-standard dialect issues, various classroom strategies and assessment procedures, and the political implications of developmental writing programs.

665. READING-WRITING CONNECTIONS (3)  
Prerequisites: Prior or concurrent enrollment in ENGL 600A or permission of instructor. Course will explore connections between reading and writing, work that has become a major research emphasis in literacy studies over the past twenty years. The course will address these issues from a theoretical point of view and from the perspective of training students to be able to use the academic and scholarly information in relevant teaching situations. The course framework will consider approaches to exploring connections between reading and writing as appropriate to literary studies, to composition studies, and to applied linguistics.

696. DIRECTED GRADUATE RESEARCH (1-3) (Formerly 596)  
697. DIRECTED COMPREHENSIVE STUDIES (1-3)  
(Formerly 597)  
698. THESIS OR GRADUATE PROJECT (3) (Formerly 598)  
699. INDEPENDENT STUDY (1-6) (Formerly 599)  
Prerequisites: At least one graduate course in English and consent of Department Chair. Investigation of a significant problem in language or literature. Project selected in conference with sponsor.
ENGLISH AS A SECOND LANGUAGE (Interdisciplinary Minor)

COLLEGE OF HUMANITIES
Phone: (818) 677-3453

ACADEMIC ADVISING: Students in the ESL Minor or in the Certificate Program should consult regularly with the Linguistics/TESL coordinator/advisor during regular office hours, or by appointment.

COORDINATOR: Sharon Klein, English.

PROGRAM COMMITTEE: Daniele Dibie, Continuing Education; Francine Hallcom, Chicano/a Studies; Alan Harris, Speech Communication; Barbara Hawkins, Elementary Education; Barbara Kroll, English; Rebecca Litke, Speech Communication; Evelyn McClave, English; Rei Noguchi, English; Sabrina Peck, Elementary Education; Wendy Snyder, Foreign Languages; Elizabeth Weber, Communicative Disorders.

THE PROGRAM:

A. The TESL Minor Program in the School of Humanities incorporates courses in Anthropology, Chicana/o Studies, Education, English, Foreign Languages and Literatures, Linguistics and Sociology. The objective is to prepare candidates to teach English to speakers of other languages. Appropriate course substitution may be made only with the written approval of the coordinator.

B. The TESL Certificate is awarded to students who have completed (1) all the TESL Minor requirements and (2) either Secondary Education 425ESL Methods of Teaching ESL or Secondary Education 487ESL Methods of Teaching ESL to Adults or E ED 570 or E ED 571. This certificate is not equivalent to a teaching credential.

REQUIREMENTS FOR THE MINOR

Any course substitution must be approved by the LING/ESL advisor.

1. One course from (a) and one from (b), one of which must be upper division (6 Units):
   a. ANTH 152 Cultural and Human Behavior3 3
   ANTH 305 Individual and Culture3 3
   ANTH 345 Ethnic Groups in America3 3
   SOC 305 Culture and Personality3 3
   SOC 307 Ethnic Diversity in America3 3
   b. AAS 100 Introduction to Asian American Studies 3
   AAS 350 Asian American Personality3 3
   AAS 450 Asian American Child3 3
   ANTH 339 Peoples of South Asia3 3
   ANTH 344 Asian Americans3 3
   CH S 100 Chicano Culture3
   CH S 340 Chicano Culture3
   CH S 341 Chicano Culture3
   CH S 470 Culural Differences and the Chicano3 3
   CH S 471 The Chicano/Mexican Families 3

2. One course from (a) and one from (b) (6 Units):
   a. ANTH 310 Language in Culture: Anthropological Linguistics1,2,4 3
   ENGL 301 Language and Linguistics1,2,4 3
   COMS 420 Language and Symbolic Function1,2,3 3
   b. ENGL 302 Introduction to Modern Grammar1 3
   ENGL 403 Transformational Generative Grammar3

3. One course from the following (3 Units):
   ANTH 441 Sociolinguistics: Problems in Language and Culture1,2 3
   LING 407 Varieties in Language3 3
   ENGL 405 Language Differences and Language Change1,2,4 3
   SPAN 401 Language and Culture3 3
   COMS 356 Intercultural Communication3 3

4. One course from the following (3 Units):
   CH S 433 Language Acquisition of the Chicano and ESL Speakers1,2,4 3
   LING 412 Second Language Acquisition1 3

5. One course from the following (3-4 Units):
   ENGL 406 Advanced Expository Writing for Teachers1 3
   ENGL 413 Tutoring in Composition4 3

6. One course from the following (3 Units):
   CH S 482 Language of the Barrio4 3
   LING 427 Languages in Contact1 3
   SPAN 497 Comparative Structure of Spanish and English3 3

TOTAL UNITS IN THE MINOR (24-25 Units)

COURSE REQUIREMENTS FOR THE ESL CERTIFICATE (27-28 UNITS)

Completion of all the course requirements for the ESL Minor above and one of the following:

S ED 425ESL Methods of Teaching ESL2 3
or
S ED 487ESL Methods of Teaching ESL to Adults 3
or
E ED 570ESL ESL Instruction in Multilingual Classrooms3 3
or
E ED 571 Bilingual Education3 3

1 Also fulfills a course requirement in the Liberal Studies major (ESL concentration, Language Art, etc.)
2 Also fulfills a course requirement of the Supplementary Authorization in ESL.
3 Also fulfills a General Education course requirement.
4 Also fulfills a course requirement for the Clear California Teaching Credential (Multicultural Requirement).
FAMILY ENVIRONMENTAL SCIENCES
Chair: Alyce Akers Blackmon

COLLEGE OF HEALTH AND HUMAN DEVELOPMENT
Department Office: H Complex, Building HD
Phone: (818) 677-3051  Fax: (818) 677-4778
Website: http://hhd.csun.edu/fes


ACCREDITATION AND APPROVED PROGRAMS: The department is fully accredited by the Council for Accreditation of the American Association for Family and Consumer Sciences. The American Dietetics Association has approved the Dietetics Didactic Program and the Dietetics Internship. The Child and Family Studies Center is accredited by the National Academy of Early Childhood Education Programs. The interior design program is accredited by the Foundation of Interior Design Education and Research.

CREDENTIAL INFORMATION: The department has an approved waiver program leading to a K-12 teaching credential in the single subject area of Family and Consumer Sciences/Home Economics. For details on the credential program see the Credential section of this catalog.

DEGREES OFFERED: B.S. (with six options) and M.S. degrees in Family and Consumer Sciences.

MINORS: The department offers minors in Childcare Administration, Family and Consumer Science, and Food Science. The department offers courses in the Human Sexuality and Gerontology minors.

ACADEMIC ADVISEMENT: All undergraduate and graduate students are assigned faculty advisors. Students are required to plan their academic program in consultation with the advisor prior to registration each semester.

THE MAJOR: Family Environmental Sciences encompasses the study of the relationships among people and their personal environments. The department focuses on the impact of the physical, biological, and social environments on human behavior and development. Students who major in Family Environmental Sciences learn to improve the quality of life for individuals, families and communities by providing practical solutions to problems involving food and diet, apparel and interior design, childrearing and family relations, and family and consumer economics. Students select from six areas of study: Apparel Design and Merchandising, Consumer Affairs, Family and Consumer Sciences Education, Family Studies, Interior Design, and Nutrition, Dietetics and Food Science. All Family Environmental Sciences majors take four core courses that include concepts common to all specializations, as well as courses in their options. The department offers experiential learning opportunities through its laboratory, and studio courses and three centers: the Child and Family Studies Center, the Consumer Resource Center, and the Marilyn Magaram Center for Food Science, Nutrition and Dietetics. All Family Environmental Sciences Majors gain practical experience through internships in professional settings.

CAREERS: Professionals in Family Environmental Sciences are concerned with the well being of individuals and families and the products, services and practices that affect them. Graduates find many and varied career opportunities in business, industry, health and human services and educational settings. (See option descriptions for specific information.)

APPAREL DESIGN AND MERCHANDISING: The Apparel Design and Merchandising program offers an analytical study of concepts and their application related to the design, production, and merchandising of textiles and apparel. Basic knowledge from the physical and social sciences, technology, aesthetics and business is applied to the principles of the design, production, manufacturing and merchandising of textiles, apparel and accessories. Graduates enter a wide spectrum of careers in such positions as apparel designer, apparel buyer, department buyer, quality control/production manager, textile designer, textile scientist, showroom manager, retail manager/owner, fashion journalist, sales representative/executive, museum curator of textiles and costumes, and costume designer. Students may participate in Trends, the apparel student organization, and in a wide range of internship sites in the apparel industry.

CONSUMER AFFAIRS: The Consumer Affairs program focuses on theory and principles from consumer behavior and education, government and public policy, management, finance, law and communication as they apply to consumers. Graduates find careers in government agencies, combating fraud or monitoring consumer trends; in corporations, improving the quality of customer service; in public relations and advertising agencies, planning product marketing and in family financial institutions. The department provides leadership opportunities through the student chapter of the Society of Consumer Affairs Professionals and internships at the Consumer Resource Center, which provides services to the university and the San Fernando Valley, as well as internships in a variety of business and non-profit agencies.

FAMILY AND CONSUMER SCIENCES EDUCATION: The Family and Consumer Science Education program satisfies the requirements for the waiver program in Family and Consumer Sciences/Home Economics for the single subject credential (Ryan Act) in the State of California. The program includes a comprehensive background in child development and guidance; family living and parenting education; consumer education; housing and interior design; food and nutrition; textiles and apparel design and merchandising; individual and family health; and leadership. After completion of the credential program, graduates are prepared for careers in K-12 teaching, adult education, program administration, youth service administration, vocational education, and home economics extension education and administration. Opportunities to work with middle grade and high school students are available through the Family Environmental Sciences Speakers’ Bureau, selected projects, and for developing competence in the eight career paths relevant to the teaching of family and consumer sciences.

FAMILY STUDIES: The Family Studies program provides the student with an extensive background in developmental theory and its practical application to human and family development across the life span. Students apply theory to
FAMILY ENVIRONMENTAL SCIENCES 325

their activities at the Child and Family Studies Center, which provides services to infants, toddlers, preschoolers, kindergartners and families and is accredited by the National Academy of Early Childhood Education Programs. Internship opportunities for participating in parent education, and working with children, adolescents, adults and the elderly, are available. Graduates are prepared for careers across a broad spectrum of organizations that provide services to children and families; potential positions include: children’s program administrator, childcare provider and administrator, family services coordinator, family resource and referral counselor, foster parent trainer and administrator, child development specialist, family advocate, family life educator, adoption services director, corporate childcare consultant, and parent educator. Family Studies is an appropriate undergraduate preparation for graduate programs in Marriage, Family and Child Therapy.

INTERIOR DESIGN: The Interior Design program prepares students to analyze, design and implement living/working environments that are functionally efficient and aesthetically satisfying to a diverse population in a wide range of settings. The program embraces an environmental and behavior perspective, acknowledging the inter-relatedness between people, at various ages and developmental stages, and the interior environments they occupy. This perspective emphasizes the integration of function and aesthetics in the design of residential, commercial, retail, hospitality, institutional, educational, and health care environments. Knowledge of human development, aesthetics, the history of architecture and interiors, building systems, codes and technology, and business procedures in professional practice, together with the development of skills in graphic communications, are among the areas of study within the major. The program prepares the students to enter professional practice in interior design, as well as positions as showroom managers, product representatives, sales managers, private entrepreneurs, furniture designers and manufacturers, and materials designers and specialists. Students have opportunities to intern with interior design, manufacturing, wholesale and retail firms and non-profit community housing agencies and learn leadership through memberships in the professional organizations of the American Society of Interior Designers and the International Interior Design Association.

NUTRITION, DIETETICS AND FOOD SCIENCE: The Nutrition, Dietetics and Food Science programs emphasize the application of physical, biological and social sciences to the study of foods and nutrition. The Nutrition and Dietetics area (see Pattern A) educates students in the knowledge of food and nutrition as they relate to health issues. The program of study is approved by the American Dietetic Association to prepare graduates to work in the field of nutritional science as registered dietitians and nutritionists for private businesses, hospitals and nursing homes, pharmaceutical companies, public health agencies, and government agencies. The Food Science area (see Pattern B) stresses product development and nutrient analysis, the production, distribution, and marketing of foods, as well as institutional food management. Graduates work for government agencies in sanitation and quality control, research and development, sensory evaluation and marketing for food companies, and restaurant and food service management. A student desiring to enter both these programs should have a strong background in the physical and biological sciences as the scientific disciplines are

emphasized. A variety of research, internship and leadership experiences are available through the Marilyn Magaram Center for Food Science, Nutrition and Dietetics and the Student Dietetics and Food Science Association.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

REQUIRED CORE COURSES (12-14 UNITS)

Required of all options.

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FES 170</td>
<td>Creative Expression in Family.....</td>
<td>2</td>
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<tr>
<td>FES 232</td>
<td>Individual and Family Development.</td>
<td>3</td>
</tr>
<tr>
<td>FES 320</td>
<td>Management for Modern Living.......</td>
<td>3</td>
</tr>
<tr>
<td>FES 380</td>
<td>Family Environmental Sciences.....</td>
<td>3</td>
</tr>
<tr>
<td>FES 491</td>
<td>Family Environmental Sciences Projects..</td>
<td>1-3</td>
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(For Family Studies Option Only.)

or

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<tr>
<th>Course Code</th>
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<tr>
<td>FES 494</td>
<td>Supervised Field Study.............</td>
<td>1-3</td>
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OPTIONS

APPEL DESIGN AND MERCHANDISING

REQUIRED OPTION COURSES (22 UNITS)

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<tr>
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<tbody>
<tr>
<td>CHEM 110/110L</td>
<td>GE Chemistry and Lab*</td>
<td>4</td>
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<tr>
<td>or</td>
<td>CHEM 103/103L</td>
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<tr>
<td>or</td>
<td>CHEM 105/110L GE Chemistry and Lab*</td>
<td>4</td>
</tr>
<tr>
<td>FES 150/150L</td>
<td>Apparel Construction and Lab.....</td>
<td>3</td>
</tr>
<tr>
<td>FES 160</td>
<td>Introductory Textiles.............</td>
<td>3</td>
</tr>
<tr>
<td>FES 255</td>
<td>The Fashion Industry.............</td>
<td>3</td>
</tr>
<tr>
<td>FES 271/271L</td>
<td>Apparel Analysis and Selection...</td>
<td>3</td>
</tr>
<tr>
<td>FES 353</td>
<td>Apparel and Human Behavior.......</td>
<td>3</td>
</tr>
<tr>
<td>FES 360/360L</td>
<td>Textiles and Lab................</td>
<td>3</td>
</tr>
<tr>
<td>*May be part of General Education.</td>
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</table>

PATTERNS

In consultation with an advisor, select Pattern A, B, or C.

PATTERN A: APPAREL DESIGN AND PRODUCTION (21 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FES 250/250L</td>
<td>Apparel Construction II and Lab...</td>
<td>3</td>
</tr>
<tr>
<td>FES 352</td>
<td>History of Textiles and Apparel...</td>
<td>3</td>
</tr>
<tr>
<td>FES 371/371L</td>
<td>Apparel Design: Flat Pattern and Lab</td>
<td>3</td>
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<tr>
<td>FES 471/471L</td>
<td>Apparel Design: Draping and Lab...</td>
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<tr>
<td>FES 472/472L</td>
<td>Apparel Design: Computer Aided Design</td>
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</tr>
<tr>
<td>FES 475/475L</td>
<td>Fashion Development and Lab........</td>
<td>3</td>
</tr>
<tr>
<td>FES 476</td>
<td>Studio Problems in Apparel Design.</td>
<td>3</td>
</tr>
</tbody>
</table>

PATTERN B: APPAREL MERCHANDISING (18 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FES 356/356L</td>
<td>Analysis and Evaluation of Apparel Quality</td>
<td>3</td>
</tr>
<tr>
<td>FES 360/360L</td>
<td>Textiles and Lab..................</td>
<td>3</td>
</tr>
<tr>
<td>FES 435/435L</td>
<td>Fashion Merchandising.............</td>
<td>3</td>
</tr>
<tr>
<td>MKT 304</td>
<td>Intro. to Marketing Management...</td>
<td>3</td>
</tr>
<tr>
<td>MKT 440</td>
<td>Integrated Marketing Communications</td>
<td>3</td>
</tr>
<tr>
<td>MKT 443</td>
<td>Retail Management................</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVES (6 UNITS) (FOR PATTERNS A AND B)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FES 250/250L</td>
<td>Apparel Construction II and Lab...</td>
<td>3</td>
</tr>
<tr>
<td>FES 324</td>
<td>Consumer Issues and Problems......</td>
<td>3</td>
</tr>
<tr>
<td>FES 352</td>
<td>History of Textiles and Apparel...</td>
<td>3</td>
</tr>
<tr>
<td>FES 354</td>
<td>Apparel for Special Groups.........</td>
<td>3</td>
</tr>
<tr>
<td>FES 371/371L</td>
<td>Apparel Design: Flat Pattern and Lab</td>
<td>3</td>
</tr>
<tr>
<td>FES 450/450L</td>
<td>Experimental Tailoring and Lab....</td>
<td>3</td>
</tr>
<tr>
<td>FES 460/460L</td>
<td>Textile Product Analysis and Lab...</td>
<td>3</td>
</tr>
<tr>
<td>FES 471/471L</td>
<td>Apparel Design: Draping and Lab...</td>
<td>3</td>
</tr>
<tr>
<td>FES 475/475L</td>
<td>Fashion Development and Lab........</td>
<td>3</td>
</tr>
<tr>
<td>FES 496</td>
<td>Experimental Courses in Family Environmental Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>
PATTERN C: TEXTILES AND APPAREL (INDIVIDUALIZED PROGRAM) (18 UNITS)

Select 18 upper division Family Environmental Sciences and textiles and apparel courses, with approval of an advisor.

TOTAL UNITS IN THE CORE AND OPTION (52-63 UNITS)

CONSUMER AFFAIRS

REQUIRED OPTION COURSES (18 UNITS)

ECON 200 Principles of Economics*.................................3
or
ECON 300 Economic Principles and Problems* .................3
FES 323 Family Economics ...........................................3
FES 324 Consumer Issues and Problems* .........................3
FES 420 Family Resource Management..........................3
MKT 304 Introduction to Marketing Management...............3
MKT 348 Consumer Behavior ........................................3

OPTION ELECTIVES (12 UNITS)

Select 4 courses from the following:
FES 322/322L Equipment I...........................................3
FES 381 Computer Applications in Family Environmental Sciences.........................3
FES 423 Analysis of Family Economics Issues ................3
FES 424 Resource Management for the Elderly.................3
FES 425 Independent Living for Elderly and Disabled Individuals.........................3
FES 426 Family: Focus on the Future............................3
FES 427 Consumer Advocacy and Education..................3
FES 494 Supervised Field Study ................................3
FES 496 Experimental Courses in Family Environmental Sciences.........................3

BREADTH ELECTIVES (7-9 UNITS)

Select 3 courses from the following:
FES 114 Introduction to Interior Design........................2
FES 160 Introductory Textiles ....................................3
FES 353 Apparel and Human Behavior..........................3
FES 201/201L Introductory Food Science........................3
FES 321/321L Contemporary Issues in Foods and Nutrition .................2
FES 207 Nutrition for Life...........................................3
FES 315 Issues in Housing .........................................3
FES 330 Child Growth and Development I......................3
FES 340 Marriage and Family Relations........................3
FES 499 Independent Study ........................................1-3

PATTERNS

Select Pattern A or B, (see below) or a minor approved by the advisor (e.g., Journalism; Gerontology; Psychology; Leadership and Human Relations; Business; Marketing).

PATTERN A: BUSINESS (15 UNITS)

(Approved Pattern of Out-of-Department Courses)
BLAW 108 The Citizen and the Law*..............................3
or
BLAW 280 Business Law I* ........................................3
MKT 100 Conceptual Foundations of American Enterprise........3
OBSE 205 Analysis of Communications for Business..........3
MGT 360 Management & Organizational Behavior.............3
Elective from Business/Economics (see advisor) ..............3

PATTERN B: COMMUNICATION (15 UNITS)

(Approved Pattern of Out-of-Department Courses)
JOUR 100 Mass Communications* .................................3
or
RTVF 100 Introduction to Mass Communication Arts* .........3
JOUR 110 News Reporting ..........................................3
or
OBSE 205 Analysis of Communications in Business ..........3
JOUR 340 Principles of Public Relations .......................3

*May be part of General Education.

FES 496 Experimental Courses in Family Environmental Sciences.........................3

TOTAL UNITS, CORE AND OPTION: 64-68

OPTION: FAMILY AND CONSUMER SCIENCES EDUCATION

For details on the Single Subject Family and Consumer Sciences/ Home Economics Credential program, see the Credentials section of this catalog or refer to the Index.

FAMILY STUDIES

REQUIRED OPTION COURSES (35 UNITS)

BIO 100/100L Introductory Biology/Laboratory* ..............4
or
BIO 101/101L General Biology/Laboratory ......................4
BIO 281 Human Physiology .........................................3
or
PSY 250 Physiological Correlates of Human Behavior .........3
FES 207 Nutrition for Life ...........................................3
or
FES 309 Maternal, Infant and Child Nutrition................3
FES 330 Child Growth and Development I ......................3
or
FES 335 Prenatal and Infant Development ......................3
FES 340 Marriage and Family Relations .........................3
FES 431 Child Growth and Development II .....................3
FES 431L Child Growth and Development Lab..................1
FES 432 The Child in the Family ..................................3
FES 433 Administration of Children’s Programs .................3
FES 436 Parental Development ....................................3
FES 441 Human Sexuality ..........................................3
or
PSY 150 Principles of Human Behavior* .........................3

BREADTH REQUIREMENT (3 UNITS)

Select one of the following:
ART 383 Art in Early Childhood ..................................3
ENGL 428 Children’s Literature ..................................3
MUS 362/362L Music for Early Childhood .....................2/1
KIN 370/370L Physical Education in Early Childhood Education .........2/1
or
KIN 470/470L Physical Education for Children .................2/1
LSR 305 Dynamics of Early Childhood Play ..................3
LSR 405 Play and the Exceptional Child .........................3

ELECTIVES (12 UNITS)

Select four from the following:
FES 315 Issues in Housing ........................................3
FES 381 Computer Applications in Family Environmental Sciences ..................3
FES 424 Resource Management for the Elderly .................3
FES 425 Independent Living for Disabled Individuals ............3
FES 496/J Experimental Courses in Family Environmental Sciences ..................3
PSY 310 Behavior Disorders .......................................3
SOC 356 Introduction to Social Welfare .........................3

TOTAL UNITS, CORE AND OPTION: 62-65
INTERIOR DESIGN

REQUIRED OPTION COURSES (32 UNITS)

ART 112 Survey of NonWestern Arts*.............3
or
ART 315 Perspectives in Art History*..................3
ART 113 Architectural Drafting.........................3
ART 124C Drawing I..............................................3
ART 141 Beginning Three Dimensional Design........3
ART 314 Furniture Design and Construction...........2
ART 320 Computer Drafting for Interior Design.......1
ART 321/321L ART3D Computer Workshop...............2
ART 329 Interior Design Rendering........................3
FES 114 Introduction to Interior Design...............2
FES 160 Introductory Textiles.............................3
FES 211 Interior Design I....................................3
FES 311 Interior Design II..................................3
FES 312/312L Lighting and Mechanical Systems........3
FES 313/313L Interior Design, Materials, Standards, and Specifications..................3
FES 410A History of Interiors and Architecture I........3
FES 410B History of Interiors and Architecture II......3
FES 411 Interior Design III................................3
FES 412 Organization of Interior Design Practice.........3
FES 414 Senior Comprehensive Interior Design Studio...3

The Family Environmental Sciences Department reserves the right to hold examples of work completed as class assignments for a period not to exceed two years. These examples may be exhibited.

TOTAL UNITS, CORE AND OPTION: 64-66

NUTRITION, DIETETICS AND FOOD SCIENCE

REQUIRED OPTION COURSES (38 UNITS)

BIO 101/101L General Biology*.........................4
BIO 215/215L Introductory Microbiology.................4
BIO 281 Human Physiology..................................3
CHEM 103/103L Introductory Chemistry I*................4
CHEM 104/104L Introductory Chemistry II*...............4
CHEM 235/235L Introductory Organic Chemistry...........4
FES 201/201L Introductory Food Science................3
FES 301 Food Science and Technology................3
FES 304/304L Foodservice Production..................3
FES 305/305L Foodservice System Management...........3
FES 307 Human Nutrition..................................3

PATTERNS

In consultation with an advisor, select Pattern A or B.

PATTERN A: NUTRITION AND DIETETICS (36 UNITS)

Meets American Dietetics Association requirements.

CHEM 365/365L Introduction to Biochemistry..........4
CHS/PAS/AAS/ENGL 155 Freshman Composition*...........3
FES 321/321L Contemporary Issues in Foods & Nutrition..............2
FES 406 Diet in Health and Disease.....................3
FES 407 Advanced Nutrition..................................3
FES 408 Community Nutrition..................................3
MGT 360 Management and Organizational Behavior........3
POL 155 American Political Institutions*...............3
or
POL 303 State and Local Government*.................3
PSY 150 Principles of Human Behavior*..................3
SED 525 HE Methods of Teaching..........................3
SOC 150 Introductory Sociology*..........................3

* May be part of General Education.
FES 330 Child Development I.........................3
FES 335 Prenatal and Infant Development........3
FES 432 Child in the Family........................3
FES 433 Administration of Children’s Programs...3
FES 491A Family Environmental Science Projects...(1)
and 491B Family Environmental Science Projects...(2)
or
FES 491C Family Environmental Science Projects...3
FES 533 Advanced Topics in Administration
of Children’s Programs .........................3
FES 534 Supervision of Child Development
Personnel........................................2
Select one of the following:.................................3
ART 383 Art in Early Childhood.....................3
CDEV 406/L Enhancing Childhood Creativity and
Laboratory.........................................3
ENGL 428 Children’s Literature.....................3
MUS 362 Music for Early Childhood...............3

Recommended Courses:

CHS 430 The Chicano Child..........................3
PAS 420 The Black Child............................3
SPED 400 Introduction to Special Education....3

FAMILY AND CONSUMER SCIENCES (24 UNITS)

Suitable for secondary and elementary teaching credentials.
FES 150/150L Clothing Construction I.............3
FES 160 Introductory Textiles........................3
FES 170 Creative Expression in Family
Environmental Sciences .........................2
FES 201/201L Introductory Food Science ..........3
FES 207 Nutrition for Life..........................3
FES 315 Issues in Housing...........................3
FES 320 Home Management I........................3
FES 320L Home Management I Laboratory .....1
FES 340 Marriage and Family Relations...........3

FOOD SCIENCE (20 UNITS)

Science prerequisites for courses required in minor (23 units)
BIOL 101/101L General Biology ..................4
BIOL 215/215L Introductory Microbiology .......4
BIOL 281 General Chemistry I ....................4
CHEM 103/103L General Chemistry I .........4
CHEM 104/104L General Chemistry II ........4
CHEM 235/235L Introductory Organic Chemistry 4
FES 201/201L Introductory Food Science ..........3
FES 207 Nutrition for Life..........................3
FES 301 Food Science and Technology .........3
FES 302 Food Product Development and
Quality Assurance ................................2
FES 307 Human Nutrition............................3
FES 303 Cultural Aspects of Food & Nutrition ....3
FES 401/401L Food Chemistry and Analysis ....3

ACCREDITED DIETETIC INTERNSHIP (18 UNITS)

A Certificate Program in Dietetics, including a supervised
Practice Program.
The Dietetic Internship (DI) is for graduate students who
have completed the Didactic Program in Dietetics (DPD).
The Dietetic Internship consists of 6 graduate courses and
1000 hours of supervised practice. The graduate courses are:
FES 573 Seminar for Dietetic Interns.............3
FES 607 Carbohydrate, Lipid and Protein
Metabolism..........................................3
FES 681 Research Methods..........................3
FES 682 Research Applications.....................3
FES 690A or B Seminar: Nutrition/Food Science ....3

Plus one course from the following:
FES 501 Advanced Food Chemistry & Analysis ....3

FES 505 Nutrient and Drug Interaction..................3
FES 602 Vitamin and Mineral Analysis ............3
FES 606 Vitamin and Mineral Metabolism .......3

A separate DI application is required; acceptance is
competitive. Courses taken for the DI program may be
applied toward the M.S. degree.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

The graduate program in Family Environmental Sciences
leads to a Master of Science degree. The program is
designed to be flexible so that individual need may be
considered in the program planning. Students may earn a
graduate degree with emphasis in any of the areas of Family
Environmental Sciences identified as part of the
undergraduate program. Particular emphasis is given to the
areas of Apparel and Textiles, Consumer Affairs, Family
Studies, Interior Design and Nutrition & Food Science.

REQUIREMENTS FOR ADMISSION TO THE PROGRAM

For admission as classified graduate student, the following
requirements must be satisfied:

1. A grade point average of 2.5 plus adequate performance
   on the Graduate Record Examination or an overall grade
   point average of 3.0. Students with a grade of point
   average of 2.5 to 3.0 will be admitted to the department
   as conditionally classified graduate students.
2. A Bachelor’s degree from an accredited institution with
   selected approved upper division courses in Family
   Environmental Sciences or the equivalent. Those students
   without adequate background courses will be asked to
   complete any prerequisites considered essential.
3. The satisfaction of any other University requirements for
   classified status, such as the Upper Division Writing
   Proficiency Examination.
4. Formal approval by the department based upon the total
   record of the student.

REQUIRED COURSES (6 UNITS)

FES 681 Research Methods..........................3
FES 682 Research Applications.....................3

ELECTIVES (24 UNITS)

This is the minimum amount of approved graduate
coursework to be selected with an advisor. A maximum of
9 units may be at the 400 level.

CAPSTONE

Select one of the following:
A. Thesis or Project
   1. The proposal must be approved by the student’s
      committee and the Graduate Coordinator.
   2. The student will register for FES 698 for 1-3 units.
      These units may be included in the elective total.
   3. The student must successfully defend the thesis or
      project at an oral exam.
B. Comprehensive Examination
   1. The student will register for FES 697 Directed
      Comprehensive Studies (3 units). These units may
      NOT be counted in the elective total.
   2. The student must earn a minimum of “B” on the
      examination.

UNIT MINIMUM FOR THE M.S. DEGREE: 30-33
<table>
<thead>
<tr>
<th>COURSE LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOWER DIVISION</td>
</tr>
<tr>
<td>114. INTRODUCTION TO INTERIOR DESIGN (2)</td>
</tr>
<tr>
<td>An introductory survey to interior design. Lecture-recitation 2 hours. Course same as ART 114.</td>
</tr>
<tr>
<td>150/150L. APPAREL CONSTRUCTION I (3)</td>
</tr>
<tr>
<td>Fundamental principles and terminology of clothing construction; emphasis on the interrelationship of fiber, fabric, construction techniques, fit and care. 2 hours lecture, one 3-hour lab.</td>
</tr>
<tr>
<td>160. INTRODUCTORY TEXTILES (3)</td>
</tr>
<tr>
<td>A lecture-discussion course presenting an introduction to the chemical, physical, and nutritional properties of foods and changes that occur during processing and storage. Methods currently used in food preparation are emphasized. 2 hours lecture, one 3-hour lab.</td>
</tr>
<tr>
<td>207. NUTRITION FOR LIFE (3)</td>
</tr>
<tr>
<td>The basics of sensible and safe food choices related to the science of nutrition. The achievement and maintenance of nutritional well-being throughout life as influenced by social, cultural, economic and environmental conditions. Three hours lecture per week. Credit not allowed for both FES 207 and HSCI 337. (Available for General Education, Applied Arts and Sciences.)</td>
</tr>
<tr>
<td>211. INTERIOR DESIGN I (3)</td>
</tr>
<tr>
<td>Prerequisites: FES 114, FES 170, ART 113, ART 124C. Introduction to space planning. 6 hours Activity. Students cannot receive credit for both FES 211 and ART 247.</td>
</tr>
<tr>
<td>232. INDIVIDUAL AND FAMILY DEVELOPMENT (3)</td>
</tr>
<tr>
<td>Relationships and adjustments during the normal stages of family living.</td>
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<tr>
<td>250/250L. APPAREL CONSTRUCTION II (3)</td>
</tr>
<tr>
<td>Prerequisites: FES 150, 160, 170. Theory and application of pattern altering, fitting, advanced construction techniques; analysis of fabrics used in fashion apparel. Two hours lecture, one 3-hour laboratory.</td>
</tr>
<tr>
<td>255. THE FASHION INDUSTRY (3)</td>
</tr>
<tr>
<td>An overview of the structure and functioning of the fashion industry as it relates to apparel. Field trips required.</td>
</tr>
<tr>
<td>271/271L. APPAREL ANALYSIS AND SELECTION (3)</td>
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<tr>
<td>Prerequisite: FES 170. A study of individual differences in relation to apparel selection and design. 4 hours activity.</td>
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<tr>
<th>UPPER DIVISION</th>
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<tbody>
<tr>
<td>301. FOOD SCIENCE AND TECHNOLOGY (3)</td>
</tr>
<tr>
<td>Prerequisites: FES 201, Biol 215, and Chem 235. A study of the physical and chemical changes occurring in food during commercial operations and the principles and technical process involved in the production, processing, preservation, storage and distribution of foods. Control and utilization of micro-organisms in food, food laws and regulations, and the influence of processing on nutritional quality of foods will be discussed.</td>
</tr>
<tr>
<td>302. FOOD PRODUCT DEVELOPMENT AND QUALITY ASSURANCE (2) (Formerly 301L)</td>
</tr>
<tr>
<td>Prerequisite: FES 301 or concurrent enrollment. Principles and practice of quality assurance and product development programs in food industry. Laboratory and field study of commercial food processing and preservation operations. Six hours of laboratory per week.</td>
</tr>
<tr>
<td>303. CULTURAL ASPECTS OF FOOD AND NUTRITION (3)</td>
</tr>
<tr>
<td>Study of psychological, sociological, and historical aspects of cultural food patterns. Consideration of the nutritional significance of these patterns and problems involved in changing food habits.</td>
</tr>
<tr>
<td>304/304L. FOODSERVICE PRODUCTION (3)</td>
</tr>
<tr>
<td>Prerequisite: FES 301. An overview of the principles and methods of commercial/institutional food production including use of food service equipment. Includes application of principles of safety and sanitation. Campus and off-campus facilities as laboratory sites to be arranged. Two lectures and one 3-hour laboratory per week.</td>
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<tr>
<td>305/305L. FOODSERVICE SYSTEM MANAGEMENT (3)</td>
</tr>
<tr>
<td>Prerequisites: FES 201, Mgt 360 or concurrent. The systems approach to managing a foodservice facility including organization management, marketing, procurement, distribution, and financial and human resource management. Campus or off-campus facilities as laboratory sites to be arranged. Two lectures and one 3-hour laboratory per week.</td>
</tr>
<tr>
<td>307. HUMAN NUTRITION (3)</td>
</tr>
<tr>
<td>Prerequisites: Chem 235 and Biol 281. The role of carbohydrates, fats, proteins, minerals, and vitamins in human nutrition; nutritional requirements during the various stages of life cycle.</td>
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<tr>
<td>309. MATERNAL, INFANT AND CHILD NUTRITION (3)</td>
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<tr>
<td>Nutritional needs from preconception to adolescence. Emphasis is placed on developmental and physiological factors which influence food intake and eating behavior.</td>
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<td>311. INTERIOR DESIGN II (3)</td>
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<tr>
<td>Prerequisites: FES 211, ART 113, ART 124C. Application of theories to residential design. Six hours of laboratory per week.</td>
</tr>
<tr>
<td>312/312L. LIGHTING AND MECHANICAL SYSTEMS (3)</td>
</tr>
<tr>
<td>Prerequisites: FES 211 and ART 113. Principles of lighting and electrical systems, thermal control systems, and ancillary services applied to residential and commercial design. Laboratory will involve design of lighting systems and an understanding of mechanical systems for residential and commercial applications.</td>
</tr>
<tr>
<td>313/313L. INTERIOR DESIGN MATERIALS, STANDARDS AND SPECIFICATIONS (3)</td>
</tr>
<tr>
<td>Prerequisites: FES114 and FES211. A study of materials, standards and specifications used in the design and construction of interior environments. One hour of lecture: four hours of laboratory per week.</td>
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ethnic and socioeconomic backgrounds. Community organization, program-planning, funding and evaluation, nutrition methods and current issues are studied.

409. GERIATRIC NUTRITION (3)
Prerequisite: Majors, FES 307. Nonmajors taking this course must demonstrate that they have had sufficient experience in gerontology to benefit from the content. Special problems of the aging population with regard to nutrient requirements, food use and selection; government intervention programs related to nutrition.

410A. HISTORY OF INTERIORS AND ARCHITECTURE I (3)
Prerequisites: FES 311. The study of architecture and interiors from antiquity to the Victorian period.

410B. HISTORY OF INTERIORS AND ARCHITECTURE II (3)
Prerequisites: FES 410A. The study of architecture and interiors from post-Victorian to the present.

410C. RESIDENTIAL ARCHITECTURE AND FURNISHINGS: POST-VICTORIAN TO PRESENT (3)
Prerequisites: FES 170 and 315. The study of significant residential architecture, interiors, furniture, textiles, ornaments, and color use from Post-Victorian to the present in Western Europe and the United States.

411. INTERIOR DESIGN III (3)
Prerequisites: FES 311 and 313. Application of theories to contract design. Six hours of laboratory per week.

412. ORGANIZATION OF INTERIOR DESIGN PRACTICE (3)
Prerequisites: FES 114, FES 211, FES 311, FES 313 or consent of instructor. Focus on current concepts and activities of professional practice, including professional roles, managerial practices, service delivery systems and ethics; review and synthesis of research and professional literature pertinent to the practice of interior design.

414. SENIOR COMPREHENSIVE INTERIOR DESIGN STUDIO (3)
Prerequisites: FES 411, FES 412, FES 410A and FES 410B. Advanced study in interior design with emphasis on application of theoretical concepts to specialized interior settings. Students will be required to conceptualize and generate the interior design for a particular setting, including the graphic presentation of the design solution. Six hours studio per week.

420. FAMILY RESOURCE MANAGEMENT (3)
Prerequisite: FES 320. Application of management theory and concepts to managing diverse lifestyles with emphasis on case study analyses, personal examination and problem solving.

423. ANALYSIS OF FAMILY ECONOMIC ISSUES (3)
Prerequisites: FES 320 and 323. A study of family financial management as affected by the economic, political, and social environments. Analysis of public policy as it relates to retirement, health care, housing, and poverty.

424. RESOURCE MANAGEMENT FOR THE ELDERLY (3)
Nonmajors taking this course for the Certificate Program for Service to the Aging must demonstrate that they have had sufficient experience in gerontology to benefit from the course. Concentrates upon allocation of resources during the late phases of the family life cycle. Attention is given to retirement planning, alternative life styles for the aging and elderly. Government, community and private resources are analyzed relative to benefits useful to this age group.

425. INDEPENDENT LIVING FOR ELDERLY AND DISABLED INDIVIDUALS (3)
Prerequisite: FES 320. Nonmajors taking the course must demonstrate that they have sufficient experience in gerontology or rehabilitation. Models and methodologies for assisting older persons and individuals with disabilities to live independently or semi-independently in the home environment and community. Case studies will be used.

426. FAMILY: FOCUS ON THE FUTURE (3)
Prerequisite: FES 232 or 340. The study of alternatives for the future related to home and family life. Content emphasizes strategies for designing and managing the micro-environment.

427. CONSUMER ADVOCACY AND EDUCATION (3)
Prerequisite: FES 324. Concepts of consumer advocacy and protection with emphasis on educating consumer and analysis of strategies for resolving consumer conflicts.

431. CHILD GROWTH AND DEVELOPMENT II (3)
Prerequisite: FES 330, 335 or Psy 313. Intensive focus on theories of child development. Review of current research in selected areas of child growth and development.

431L. CHILD GROWTH AND DEVELOPMENT II LAB (1)
Students work with Child Development and Family Relations Laboratory children and their parents. Three hours per week.

432. THE CHILD IN THE FAMILY (3)
Prerequisites: Psy 150 and one of the following: FES 330, 335, or Psy 313. The dynamics of the children’s relationships with their families and others throughout the various stages of their development. Lecture-discussion.

433. ADMINISTRATION OF CHILDREN’S PROGRAMS (3)
Prerequisites: FES 330 or 335 or Psy 313. The administrative philosophy and functions of children’s programs. Staff organization, program management, and facilities planning appropriate to the developmental needs of the child and family.

436. PARENTAL DEVELOPMENT (3)
Prerequisites: FES 330 or 335. A study of the parent’s role as a facilitator, emphasizing different parenting styles and their effects; appropriate parent and child interactions.

438. ADOLESCENTS AS PARENTS (3)
Prerequisites: Psy 150 and FES 330 or 335. A study of the history, issues and research about adolescent parenting. Includes the impact of adolescent parenting on the extended family, the infant/child and society.

441. HUMAN SEXUALITY (3)
Prerequisites: FES 340. Provides biological, sociological and psychological aspects of human sexuality. The principles of sexual therapy.

450/450L. EXPERIMENTAL TAILORING (3)
Prerequisites: FES 271 and 250. Tailoring techniques applied to design and construction of coats and suits. Experimental procedures and demonstration techniques. Two hour lectures and one 3-hour laboratory per week.

455/455L. FASHION MERCHANDISING (3)
Prerequisites: FES 255, MKT 304, 340, 443. An in-depth study and application of the concepts and activities involved in the merchandising of fashion goods from producer to consumer.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>491A-C</td>
<td>FAMILY ENVIRONMENTAL SCIENCES PROJECTS (1-3)</td>
<td>FES 330 or equivalent and permission of instructor. Individual supervised</td>
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<tr>
<td></td>
<td></td>
<td>projects involving utilization of the facilities and personnel of the Child</td>
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<td>and Family Studies Center</td>
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<tr>
<td>471/471L</td>
<td>APPAREL DESIGN: DRAPING (3)</td>
<td>FES 271 and 371. Fundamental principles and techniques of designing clothing</td>
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<td></td>
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<td>by the draping method. Theory of design as applied to draping. Emphasis</td>
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<td>placed on the interrelation of fabrics, design, and form. Two hours lecture</td>
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<td>and one 3-hour laboratory per week.</td>
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<tr>
<td>472/472L</td>
<td>APPAREL DESIGN: COMPUTER AIDED DESIGN (3)</td>
<td>FES 371. Exploration of computer-aided apparel design software applications</td>
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<tr>
<td></td>
<td></td>
<td>using the theoretical concepts of apparel design. Two hours lecture and</td>
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<td>two hours laboratory per week.</td>
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<tr>
<td>475/475L</td>
<td>FASHION DEVELOPMENT (3)</td>
<td>FES 170, 255, 271. Fashion products from conception through wholesale</td>
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<td></td>
<td>distribution. Existing and potential markets, sources of inspiration,</td>
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<td>procurement of materials, manufacturing technology, costing, production</td>
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<td>scheduling, pricing, merchandising, promotion, and distribution at the</td>
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<td>wholesale level. Two hours of lecture and one 2-hour laboratory per week.</td>
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<td>Offered in alternate years.</td>
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<tr>
<td>476.</td>
<td>STUDIO PROBLEMS IN APPAREL DESIGN (3-3)</td>
<td>FES 371, 371L, FES 352 and FES 353. Advanced study in apparel design and</td>
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<td>production with emphasis on application of theoretical concepts to</td>
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<td>specialized apparel. Students will be required to design, produce, and</td>
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<td>present a design portfolio and a line of apparel. Six hours studio per</td>
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<td>week.</td>
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<tr>
<td>494.</td>
<td>SUPERVISED FIELD STUDY (1-3)</td>
<td>Directed field experience in selected areas of Family Environmental Sciences</td>
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<td>related to business, industry, and public service agencies. Written reports</td>
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<td>required. An Academic Internship course.</td>
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<tr>
<td>495.</td>
<td>DIRECTED UNDERGRADUATE RESEARCH (2-3)</td>
<td>Core Program and authorization of department. Interested students should</td>
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<td>make arrangements with the department as soon as possible preferably during</td>
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<td>the previous semester. Designed for students of advanced rank and proven</td>
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<td>competence in Family Environmental Sciences. A program of original</td>
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<td>independent research to be carried out under the direction of one of the</td>
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<td>Family Environmental Sciences faculty. Hours to be arranged. May be</td>
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<td>repeated for credit.</td>
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<tr>
<td>496A-Z</td>
<td>EXPERIMENTAL COURSES IN FAMILY ENVIRONMENTAL</td>
<td>Senior status and consent of instructor. Experimental courses in areas of</td>
</tr>
<tr>
<td></td>
<td>SCIENCES (3)</td>
<td>Family Environmental Sciences.</td>
</tr>
<tr>
<td>499.</td>
<td>INDEPENDENT STUDY (1-3)</td>
<td>Prerequisite: FES 170, 255, 271. Fashion products from conception through</td>
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<td>wholesale distribution. Existing and potential markets, sources of</td>
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<td>inspiration, procurement of materials, manufacturing technology,</td>
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<td>costing, production scheduling, pricing, merchandising, promotion, and</td>
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<td>distribution at the wholesale level. Two hours of lecture and one 2-hour</td>
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<td>laboratory per week. Offered in alternate years.</td>
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</tbody>
</table>

**FAMILY ENVIRONMENTAL SCIENCES 2000-2002**

**460/460L. TEXTILE PRODUCT ANALYSIS (3)**
Prerequisites: FES 160 and 255. Prerequisite or corequisite: FES 360, 460L. Analysis of principles and procedures used in the production and evaluation of textile products. Impact of U.S. and international trade policies and regulations. Two seminars and one 3-hour laboratory per week.

**471/471L. APPAREL DESIGN: DRAPING (3)**
Prerequisites: FES 271 and 371. Fundamental principles and techniques of designing clothing by the draping method. Theory of design as applied to draping. Emphasis placed on the interrelation of fabrics, design, and form. Two hours lecture and one 3-hour laboratory per week.

**472/472L. APPAREL DESIGN: COMPUTER AIDED DESIGN (3)**
Prerequisite: FES 371L. Exploration of computer-aided apparel design software applications using the theoretical concepts of apparel design. Two hours lecture and two hours laboratory per week.

**475/475L. FASHION DEVELOPMENT (3)**
Prerequisites: FES 170, 255, 271. Fashion products from conception through wholesale distribution. Existing and potential markets, sources of inspiration, procurement of materials, manufacturing technology, costing, production scheduling, pricing, merchandising, promotion, and distribution at the wholesale level. Two hours of lecture and one 2-hour laboratory per week. Offered in alternate years.

**476. STUDIO PROBLEMS IN APPAREL DESIGN (3-3)**
Prerequisite: FES 371L, FES 352 and FES 353. Advanced study in apparel design and production with emphasis on application of theoretical concepts to specialized apparel. Students will be required to design, produce, and present a design portfolio and a line of apparel. Six hours studio per week.

**491A-C. FAMILY ENVIRONMENTAL SCIENCES PROJECTS (1-3, 1-3)**
Prerequisites: FES 330 or equivalent and permission of instructor. Individual supervised projects involving utilization of the facilities and personnel of the Child and Family Studies Center.

**494. SUPERVISED FIELD STUDY (1-3)**
Directed field experience in selected areas of Family Environmental Sciences related to business, industry, and public service agencies. Written reports required. An Academic Internship course.

**495. DIRECTED UNDERGRADUATE RESEARCH (2-3)**
Prerequisites: Core Program and authorization of department. Interested students should make arrangements with the department as soon as possible preferably during the previous semester. Designed for students of advanced rank and proven competence in Family Environmental Sciences. A program of original independent research to be carried out under the direction of one of the Family Environmental Sciences faculty. Hours to be arranged. May be repeated for credit.

**496A-Z. EXPERIMENTAL COURSES IN FAMILY ENVIRONMENTAL SCIENCES (3)**
Prerequisites: Senior status and consent of instructor. Experimental courses in areas of Family Environmental Sciences.

**499. INDEPENDENT STUDY (1-3)**
Prerequisite: FES 170, 255, 271. Fashion products from conception through wholesale distribution. Existing and potential markets, sources of inspiration, procurement of materials, manufacturing technology, costing, production scheduling, pricing, merchandising, promotion, and distribution at the wholesale level. Two hours of lecture and one 2-hour laboratory per week. Offered in alternate years.

**501. ADVANCED FOOD CHEMISTRY AND ANALYSIS I (3)**
Prerequisites: FES 401 and Chem 365. Methods of modern analytical techniques and instruments used in food and nutrient analysis.

**505. NUTRIENT AND DRUG INTERACTIONS (3)**
Prerequisite: FES 307 and Chem 365. A study of the metabolic interaction between nutrients and drugs. Emphasis is placed on drug-induced physiological and chemical alterations which affect appetite regulation, absorption, metabolism, distribution and excretion of nutrients.

**515. ENVIRONMENTAL DESIGN THEORY, METHODOLOGY AND CRITICISM (3)**
The cornerstone course of graduate study in Interior Design. Study of recent theories and methodologies and current issues of housing and interior design.

**533. ADVANCED TOPICS IN ADMINISTRATION OF CHILDREN’S PROGRAMS (3)**
Prerequisite: FES 433. A graduate seminar on trends, issues and new developments in administering programs for children and families.

**534. SUPERVISION OF CHILD DEVELOPMENT PERSONNEL (2)**
Prerequisite: FES 433. A seminar on issues and approaches to leading and supervising individuals/teams in settings that involve young children. Required for Child Development Master Teacher, Site Supervisor and Program Director Permits. (Admission restricted to seniors, PBUs, and graduate students.)

**542. THEORIES OF FAMILY DEVELOPMENT (3)**
Prerequisites: FES 330 and 340. An in-depth study of family development theories and research will be presented, evaluated and applied to specific family situations. Students will research family theories, present their findings to the class, and lead discussions about their findings.

**543. INTERGENERATIONAL CAREGIVING (3)**
Prerequisites: FES 232, 330, or 431, LSRC 415 or SOC 440 or PSY 365 or PSY 465. A comprehensive study and analysis of the history, multicultural issues, research, academic and professional competencies required to establish, direct, teach and/or evaluate a quality intergenerational program for children and the elderly of varying abilities, cultural and socioeconomic backgrounds.

**555. TEXTILES AND APPAREL IN THE GLOBAL ECONOMY (3)**
Analysis of the U.S. textiles and apparel complex and the U.S. market within an international context.

**562. TEXTILE TECHNOLOGY I (3)**
Prerequisites: FES 360 or 460. Critical analysis of textile fibers and fabrics. Application and evaluation of textile finishes and other textile surface treatments.

**563. TEXTILE TECHNOLOGY II (3)**
Prerequisites: FES 360 or 460. Critical analysis of application and evaluation of textile dye stuffs and other coloring agents.
570. PRACTICUM IN NUTRITION THERAPY (6)
Prerequisites: Admission to Dietetic Internship (DI). Credit not available for either baccalaureate or graduate degree programs. A total of 376 hours of supervised practice at selected clinical setting stressing application of pathophysiology and related medical sciences to treatment and nutritional care. Students must be concurrently enrolled in FES 573. (Credit/No Credit basis for grading.)

571. PRACTICUM IN FOODSERVICE SYSTEMS MANAGEMENT (6)
Prerequisites: Admission to Dietetic Internship (DI). Credit not available for either baccalaureate or graduate degree programs. A total of 348 hours of supervised practice at selected foodservice settings stressing the systems approach to foodservice management and the provision of leadership within the foodservice team. Students must be concurrently enrolled in FES 573. (Credit/No Credit basis for grading.)

572. PRACTICUM IN COMMUNITY NUTRITION (6)
Prerequisites: Admission to Dietetic Internship (DI). Credit not available for either baccalaureate or graduate degree programs. 336 hours of supervised practice at selected community settings stressing the planning, delivery and evaluation of preventive health services as well as the delivery of nutrition services to persons with complex nutritional needs. Students must be concurrently enrolled in FES 573. (Credit/No Credit basis for grading.)

573ABC. SEMINAR FOR DIETETIC INTERNS (3-3-3)
Prerequisite: Admission to Dietetic Internship (DI). Taken concurrently with FES 570, 571 or 572 each semester. Course is repeatable, with a maximum of 3 units of credit applicable toward graduate degree. Lectures, group discussion and presentations dealing with the process of providing food and nutrition services in clinical, foodservice and community settings.

595A-Z. SPECIAL TOPICS IN FAMILY ENVIRONMENTAL SCIENCES (1-3)
Prerequisite: graduate standing. Selected topics in the area of Family Environmental Sciences.

602. VITAMIN AND MINERAL ANALYSIS (3)
Prerequisites: FES 401 and Chem 365. Vitamin and mineral analysis with emphasis on their application in food and nutrition research.

606. VITAMIN & MINERAL METABOLISM (3)
Recent advances in the roles of vitamins and minerals in human nutrition.

607. CARBOHYDRATE, LIPID & PROTEIN METABOLISM (3)
Recent advances in the roles of carbohydrates, lipids, and proteins in human nutrition.

635. THEORIES OF INFANT DEVELOPMENT (3)
Prerequisites: FES 330, 335 or EPC 430. An in-depth study of theory and research on infant development and care.

640. FAMILY STRENGTHS (3)
Prerequisite: FES 542. A study of the family system, focusing on the resiliency, coping strategies, support systems, and other factors that contribute to the strength and durability of the family unit.

653. CONTEMPORARY ISSUES IN TEXTILES AND APPAREL (3)
Prerequisites: FES 353. Recent developments and current issues in the area of textiles and clothing.

681. RESEARCH METHODS (3)
Prerequisite: FES 380 or Math 140 or equivalent and graduate standing. Review and critique of published research, examination of research methodology in Family Environmental Sciences, selection and utilization of research tools and techniques.

682. RESEARCH APPLICATIONS (3)
Prerequisite: FES 681. Development of research proposals, completion of mini-research project and practice in the application of selected research strategies and methodologies.

690A-P. SEMINAR: ADVANCES IN FAMILY ENVIRONMENTAL SCIENCES (3)
Prerequisite: Graduate standing. Advanced study in subject matter areas recognized as the responsibility of Family Environmental Sciences: A. Nutrition; B. Food Science; C. Family Economics; D. Family Management; E. Textile Science; F. Apparel and Human Behavior; G. Environmental Design for Selected Populations; H. Interior Design of Selected Settings; I. Child Development; J. Family Relations; K. Consumer Economics; L. Teacher Supervision; M. Special Issues in Family Environmental Sciences; N. Innovative Teaching Techniques in Family Environmental Sciences; O. Family Financial Issues; P. Open.

695A-Z. SPECIAL TOPICS IN FAMILY ENVIRONMENTAL SCIENCES (1-3)

696. DIRECTED GRADUATE RESEARCH (1-3)
Prerequisite: Classified graduate status and approval of advisor. The investigation of a significant individual research problem.

697. DIRECTED COMPREHENSIVE STUDIES (3)
To be taken only by students who have completed all course requirements (30 units) for the Master’s degree. Preparation course for those graduate students electing to take comprehensive examinations.

698. THESIS/PROJECT (1-3)
Prerequisite: Classified status and approval of advisor. Preparation of thesis or completion of project for the Master of Science degree.

699. INDEPENDENT STUDY (1-3)

FOREIGN LANGUAGES & LITERATURES
(See Modern & Classical Languages & Literatures)
GENETIC COUNSELING  
(Interdisciplinary Graduate Program)  
Director: Aida Metzenberg  
Associate Director: Maria D’Addario  

COLLEGE OF SCIENCE AND MATHEMATICS  
Phone: (818) 677-3356  
Fax: (818) 677-2034  
E-mail: genetic.counseling@csun.edu  
Internet: http://www.csun.edu/~hcbio033/  

INTERDISCIPLINARY PROGRAM COMMITTEE  
OFFICERS: Aida Metzenberg, Director; Harold N. Bass, Medical Director; Maria D’Addario, Associate Director.  

COMMITTEE MEMBERS: Stan Charnofsky, Department of Educational Psychology & Counseling; Deborah Chen, Department of Special Education; Michelle Fox, Genetic Counselor; Adele Gottfried, Department of Educational Psychology & Counseling; William Herbert, Genetic Counselor; Jodi Kirsch, Genetic Counselor; Joyce Linden, Department of Special Education; Joyce Maxwell, Department of Biology; Joseph Moore, Department of Biology  

EX-OFFICIO MEMBERS: Edward J. Carroll, Jr., Dean, College of Science and Mathematics; Philip Rusche, Dean, College of Education; Michael Auer, Chair, Department of Educational Psychology & Counseling; Jim Dole, Chair, Department of Biology; Claire Cavallaro, Chair, Department of Special Education.  

TEACHING FACULTY: Harold Bass, Beverly Cabello, Deborah Chen, Maria D’Addario, Aida Metzenberg, Eagle Desert Moon, Bernard Nisenholz, Linda Randolph, Luis Rubalcava  

DEGREE OFFERED: Master of Science in Genetic Counseling.  

THE MAJOR: Genetic counseling is a discussion process providing information and support to individuals and families having concerns about a birth defect or genetic condition. The master’s-level genetic counselor has emerged as the standard-bearer for providing genetic services to individuals and families in need. The genetic counselor acts as a liaison between families and medical professionals, communicating information about causes, implications and recurrence risks, helping families make decisions, and make the best possible adjustment to difficult circumstances. For more information on the profession, please consult the National Society of Genetic Counselors, at website: http://www.nsgc.org/  

CERTIFICATION: Master’s-level genetic counselors must be certified by the American Board of Genetic Counseling (ABGC). Specific requirements for certification may be obtained directly from the Board, (301) 571-1825, http://www.faseb.org/genetics/abgc/abgcmenu.htm, but include obtaining a master’s degree in Genetic Counseling.  

THE PROGRAM: The program prepares students for genetic counseling careers, including preparation for the certification examination conducted by the American Board of Genetic Counseling. The program, which is fully accredited by the American Board of Genetic Counseling, leads to an M.S. degree and includes concurrent placement into accredited clinical training sites. Graduates will have a clear understanding of:  
• Human genetics  
• Biochemical genetics  
• Cytogenetics  

• Molecular diagnostics  
• Treatment of genetic disorders  
• Dysmorphology  
• Normal and atypical childhood development  
• Principles and practice of genetic counseling  
• The impact of cultural differences on counseling  
  -Ethical, legal and social issues pertaining to genetics  

ADMISSION REQUIREMENTS:  
1. Bachelor’s degree from an accredited institution, with a grade point average of at least 3.0 out of 4.0.  
2. Completion of the following courses or their equivalents:  
   Genetics  
   Embryology  
   Biochemistry  
   Statistics  
   Counseling/Psychology  
3. Completion of at least one course from among the following areas:  
   Special Education (e.g. SPED 400)  
   Psychological Development  
   Cross-cultural issues  
4. The Graduate Record Examination, including an advanced examination.  
5. At least one year of experience in working with people in crisis, for example counseling experience in agencies such as crisis intervention centers, student counseling centers, family planning clinics, etc.  

Applications are accepted for the fall semester only and must be received by January 15. Candidates lacking one or more of the prerequisites will be considered for admission to the Genetic Counseling Program, and may be admitted conditionally, with the prerequisite to be fulfilled during the program.  

REQUIREMENTS FOR THE M.S. DEGREE  
REQUISITE COURSES (38 UNITS)  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 468</td>
<td>Human Genetics</td>
<td>3</td>
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<tr>
<td>BIOL 563</td>
<td>Cytogenetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 564</td>
<td>Human Biochemical Genetics</td>
<td>3</td>
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<tr>
<td>BIOL 567</td>
<td>Medical Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 571</td>
<td>Molecular Diagnostics</td>
<td>3</td>
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<tr>
<td>BIOL 665</td>
<td>Colloquium in Human Genetics</td>
<td>2,2</td>
</tr>
<tr>
<td>EPC 633</td>
<td>Development and Learning Problems in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EPC 659A</td>
<td>Counseling Practicum: Communication</td>
<td>3</td>
</tr>
<tr>
<td>EPC 659B</td>
<td>Counseling Practicum: Skills</td>
<td>3</td>
</tr>
<tr>
<td>EPC 676</td>
<td>Seminar in Genetic Counseling</td>
<td>3</td>
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<tr>
<td>SPED 631</td>
<td>Atypical Development of Infants and Toddlers</td>
<td>3</td>
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<tr>
<td>BIOL 698</td>
<td>Thesis: Case report suitable for publication; counseling research project; or an experimental research project</td>
<td>3</td>
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</table>

Field Work: Placements in a variety of accredited clinical training sites begin in the second semester of the first year.
GEOGRAPHY
Chair: I-Shou Wang

COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES
Department Office: Sierra Hall 117
Phone: (818) 677-3532  Fax: (818) 677-2723
Administrative Assistant: Susan Scott


EMERITUS FACULTY: John Gaines, Phillip Kane, Robert Lamb, Gordon Lewthwaite, Robert Newcomb, Ralph Vicero.

WEB PAGE: http://www.csun.edu/geography/


ACADEMIC ADVISEMENT: Undergraduates must consult with an advisor as soon as they declare geography as their major and before registration each semester. Graduate students must consult with the graduate advisor before registering for classes.

DEPARTMENT PROGRAMS: Geography involves the study of the earth and its peoples in their mutual relationships and regional variations. The department offers a B.A. in Geography with a focus in one of four areas of specialization: Urban Geography, Environmental Studies, Cartography and GIS (Geographic Information Systems), and Regional and International Studies. The minor in geography is described below. The M.A. program provides advanced training leading to further graduate work in geography, or to employment in teaching, industry, or government.

The Department of Geography supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Programs Study Centers in foreign countries are equivalent to courses in the Department of Geography and may be used to fulfill some of the requirements for degree options offered by the Department and/or certain general education requirements. Students should consult the International Programs Bulletin available in the Office of International and Exchange Programs, a departmental advisor, or the campus International Programs Advisor for more information.

THE MAJOR
Geography studies the areal and developmental patterns in the physical and human environment. Given this perspective, geographers are especially interested in explaining the processes and interrelationships which create these patterns. Consequently, the subject matter of the discipline is wide ranging and includes many aspects of culture and environment.

CAREERS
Training in Geography leads many students toward careers in the private or public sector as
City and Regional Planners
Climatologists
Conservationists

Economic Development Consultants
Environmental Analysts and Managers
Geographic Information Systems (GIS) Analysts
Historic Preservationists
Land-Use Analysts
Location and Market Analysts
Spatial Data Analysts
Teachers at all levels
Water Resources Analysts

SKILLS
Technical skills taught in Geography include
Computer mapping
Field observation and data collection
GIS
Global positioning systems (GPS)
Land-use analysis
Map analysis
Presentation graphics
Professional report writing
Sediment analysis
Statistics
Topographic surveying
Weather station instrumentation

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE
Providing a common, solid foundation for all majors are 37 units of core courses. In addition, Geography students take 15 units in one area of specialization:

URBAN GEOGRAPHY
ENVIRONMENTAL STUDIES
CARTOGRAPHY AND GIS
REGIONAL AND INTERNATIONAL STUDIES

CORE REQUIREMENTS (37 UNITS)

LOWER DIVISION PHYSICAL GEOGRAPHY (3 UNITS)
Choose one from the following:
GEOG 101 The Physical Environment...............3
GEOG 103 Weather .................................3

LOWER DIVISION HUMAN GEOGRAPHY (3 UNITS)
GEOG 150 World Geography........................3

UPPER DIVISION METHODOLOGY AND TECHNIQUES
(10 UNITS)
GEOG 300/L Intro. to Geographic Research.........3
GEOG 305/L Maps and Graphics ..................3
GEOG 360/L Quantitative Geography...............3
GEOG 404A-Z Field Studies .........................1

UPPER DIVISION PHYSICAL GEOGRAPHY (6 UNITS)
GEOG 311 Atmosphere ............................3
GEOG 365 Geomorphology ........................3

UPPER DIVISION HUMAN GEOGRAPHY (6 UNITS)
Select two from the following:
GEOG 301 Cultural Geography .....................3
GEOG 340 Economic Geography ..................3
GEOG 351 Urban Geography ........................3

REGIONAL GEOGRAPHY (3 UNITS)
Select one from the following:
GEOG 321 United States ............................3
GEOG 330 California ................................3
GEOG 350 Metropolitan Los Angeles ...............3
RESEARCH (6 UNITS)
GEOG 497A-F Senior Seminar ............................................3
in area of specialty
GEOG 490 Senior Project .....................................................3

TOTAL UNITS IN CORE REQUIREMENTS (37 UNITS)
Note: GEOG 300/L should be taken during the first semester of the student’s junior year.
GEOG 360/L should be taken during the first or second semester of the student’s junior year.
GEOG 351 should be taken by all students who select the Urban Specialty.

URBAN GEOGRAPHY is designed to lead toward careers in urban planning, environmental impact analysis, and location analysis in both the private and the public sector.
Select five of the following courses in consultation with a specialty advisor:
GEOG 304/L Map Interpretation ..............................................3
GEOG 307/L Air Photo Interpretation ......................................3
GEOG 350 Metropolitan Los Angeles ....................................3
GEOG 405/L Geographic Information Systems .....................4
GEOG 441 Manufacturing Geography ....................................3
GEOG 443 Transportation Geography ....................................3
(if not taken in Core)
GEOG 451 Advanced Urban Geography ..................................3
GEOG 452 Urban Land-use Planning .....................................3
GEOG 453 Housing and Community Development ................3
GEOG 459 Environmental Impact Studies .........................3
GEOG 460 Spatial Analysis ..................................................3
GEOG 482 Population Geography ..........................................3
GEOG 494 Internship .........................................................3

TOTAL UNITS IN URBAN GEOGRAPHY (15 UNITS)

ENVIRONMENTAL STUDIES prepares students for careers in resource management and environmental analysis. Courses in this specialization cover subfields within physical geography and ecological (human/environmental) relationships.
Select five of the following courses in consultation with a specialty advisor:
GEOG 304/L Map Interpretation ..............................................3
GEOG 307/L Air Photo Interpretation ......................................3
GEOG 364/L World Vegetation and Soils ............................3
GEOG 366 Environmental Hazards ........................................3
GEOG 402/L Field and Lab Techniques in Physical Geography ........3
GEOG 405/L Geographic Information Systems .....................4
GEOG 411 World Climate ...................................................3
GEOG 412 Boundary Layer Climatology ...............................3
GEOG 413 Bioclimatology ..................................................3
GEOG 414 Hydroclimatology ...............................................3
GEOG 415 Air Pollution .....................................................3
GEOG 416 Earth’s Changing Climate ....................................3
GEOG 444 Conservation ....................................................3
GEOG 459 Environmental Impact Studies .........................3
GEOG 465/L FluvialGeomorphology .....................................3
GEOG 466/L Glacial and Periglacial Geomorphology ..............3
GEOG 467/L Arid Lands Geomorphology .............................3
GEOG 468/L Coastal Geomorphology ..................................3
GEOG 486 Medical Geography ............................................3
GEOG 494 Internship .........................................................3
(Note: No more than two courses (6 units) may be selected from GEOG 304/L, 307/L, 405/L, and 407/L.)

TOTAL UNITS IN ENVIRONMENTAL STUDIES (15 UNITS)

CARTOGRAPHY AND GIS (Geographic Information Systems) trains students in advanced map design and production and in GIS, a powerful computer-based system for mapping and analyzing complex sets of data. Many students in other specialties take some training in GIS because this advanced skill is in such demand in the worlds of business and government.
Select five of the following courses in consultation with a specialty advisor:
GEOG 304.L Map Interpretation ..............................................3
GEOG 307.L Air Photo Interpretation ......................................3
GEOG 405.L Geographic Information Systems .....................4
GEOG 406.L Advanced GIS ..................................................4
GEOG 407.L Remote Sensing ...............................................3
GEOG 409.L Computer Mapping ..........................................3
GEOG 459 Environmental Impact Studies .........................3
GEOG 460.L Spatial Analysis ...............................................3
GEOG 462/4L Computer Applications in Geography .............3
GEOG 482 Population Geography ..........................................3
GEOG 494 Internship .........................................................3
(Note: At least one course, but no more than two courses, must be selected from GEOG 459, 482, or other topical course(s) not listed above, with prior approval of a specialty advisor.)

TOTAL UNITS IN CARTOGRAPHY AND GIS (15 UNITS)

REGIONAL AND INTERNATIONAL STUDIES includes many courses in the other specialties plus a variety of regional courses, all of which may be useful in international business, the tourist industry, foreign services, and some types of teaching. Also, students who wish to study Geography as a liberal art rather than pursue it as a career and are interested in several different aspects of geography for their own sake may find this a good specialization.
Select two courses from the Regional category and two courses from the Topical category, with the fifth course selected from either category, in consultation with a specialty advisor:
REGIONAL COURSES:
GEOG 318 Europe ............................................................3
GEOG 320 United States ....................................................3
(if not taken in Core)
GEOG 322 Latin America .................................................3
GEOG 323 Canada .............................................................3
GEOG 324 China ..............................................................3
GEOG 325 Southeast Asia ................................................3
GEOG 326 Africa ..............................................................3
GEOG 328 Mexico ............................................................3
GEOG 330 California ........................................................3
(if not taken in Core)
GEOG 334 Southwestern Pacific .........................................3
GEOG 335 Russia and its Neighbors of the Former Soviet Union ....3
GEOG 435 Historical Geography of Russia ..........................3

(Tropical Courses)
GEOG 304/L Map Interpretation ............................................3
GEOG 345 International Trade, Tourism, and Development ..........3
GEOG 364/L World Vegetation and Soils ............................3
GEOG 366 Environmental Hazards ......................................3
GEOG 411 World Climate ..................................................3
GEOG 482 Population Geography ..........................................3
GEOG 486 Medical Geography ............................................3
GEOG 494 Internship .........................................................3

TOTAL UNITS IN REGIONAL AND INTERNATIONAL STUDIES (15 UNITS)
THE MASTER OF ARTS DEGREE
EARTH SCIENCE MAJOR
TOTAL UNITS REQUIRED FOR DEGREE: 124
MINOR IN GEOGRAPHY
A minor in geography shall be comprised of 20 units with no more than 6 units in the lower division. The student must consult with a geography advisor to develop an approved program best suited to the student’s individual needs. A program may be selected which will provide the student with exposure to several of the major realms of geography or emphasis in one particular aspect of geography (e.g., geomorphology, climatology, cultural, economic, ecology, cartography, urban).
TOTAL UNITS REQUIRED FOR MINOR (20 UNITS)
EARTH SCIENCE MAJOR
An interdisciplinary major involving astronomy, biology, chemistry, physics, geology, and geography. See Earth Science Major.
THE MASTER OF ARTS DEGREE
Requirements for Admission to the Department
1. Of the following:
   a. Cumulative undergraduate GPA of 3.00 or better.
   b. A score at or above the 50th percentile on two of the three portions of the aptitude test of the Graduate Record Exam.
   c. A graduate degree in another field from CSUN or another accredited institution.
2. At least a 2.75 GPA in the last 60 units attempted.
Classified and Conditionally Classified Status
1. Requirements for Classified Status
   a. One of the following:
      1) An undergraduate major in Geography
      2) Demonstrated competence in human geography, physical geography, and cartography or map interpretation, as determined by the departmental Graduate Committee.
   b. A passing score (8 or higher) on the Upper Division Writing Proficiency Exam (UDWPE).
2. Conditionally Classified Status
   a. If the requirements for classified status are not met at the time of application, the student will be admitted as Conditionally Classified, pending completion of the requirements, which may include the completion of prerequisite courses in the areas of identified deficiencies and/or the UDWPE.
REQUIREMENTS FOR THE DEGREE
1. Completion of the following courses (a total of 30 units, with a GPA of 3.00 or better.)
   Introductory Seminars
   GEOG 600 History of Geographic Thought ............3
   GEOG 601 Current Geographic Trends ....................3
   Additional Seminars (four 600-level courses)...........12
   Electives (400 or 600-level courses with approval) ......6
   Thesis Preparation
   GEOG 696 Directed Geographic Research ............3
   GEOG 698 Thesis ............................................3
2. Competence in a relevant foreign language, statistics, or an advanced geographic technique.
3. Submission of a thesis approved by a departmental faculty committee.
TOTAL UNITS OF GRADUATE WORK REQUIRED FOR THE DEGREE:
30
COURSE LIST
LOWER DIVISION
101. THE PHYSICAL ENVIRONMENT (3)
(NORMALLY OFFERED EVERY SEMESTER)
Study of the natural environment; nature, distribution, and relationships of climate, landforms, vegetation, hydrology, and soils. (Available for General Education, Natural Sciences.)
102. PHYSICAL GEOGRAPHY LABORATORY (1)
(NORMALLY OFFERED EVERY SEMESTER)
Pre- or co-requisite: Geography 101 or equivalent. Observations, experiments, and demonstrations designed to familiarize students with techniques utilized by physical geographers. Three hours of laboratory. (This course may be used to satisfy the laboratory requirement in the Natural Science Section of General Education.)
103. WEATHER (3) (NORMALLY OFFERED EVERY SEMESTER)
The study of atmospheric processes. (Available for General Education, Natural Sciences.)
104. CALIFORNIA’S WEATHER (2)
(NORMALLY OFFERED EVERY SEMESTER)
An analysis of California’s weather and its place in the General Circulation of the Earth’s Atmosphere, including a survey of the State’s weather patterns by regions, by seasons, and by its effects on crops, water availability, and air quality. Students cannot receive credit for both Geography 104 and Geography 103. Two hours of lecture per week.
105. WEATHER LAB (1)
(NORMALLY OFFERED EVERY SEMESTER)
Pre- or co-requisite: Geography 104 or 103. Observations, experiments, and demonstrations designed to familiarize students with the nature of California’s weather and climate. Three hours of laboratory per week. (This course may be used to satisfy the laboratory requirement in the Natural Science Section of General Education.)
150. WORLD GEOGRAPHY (3)
(NORMALLY OFFERED EVERY SEMESTER)
A geographical survey of the world’s major regions with emphasis on those features important to an understanding of current global concerns and problems. (Available for General Education, Social Sciences.)
160. CULTURAL GEOGRAPHY OF THE THIRD WORLD (3)
(NORMALLY OFFERED EVERY SEMESTER)
A survey of the cultural geography of Latin America, Asia, and Africa, with special emphasis on the spatial patterns of culture and human-environment interaction.
190. ASIA (3)
Geographical analysis of the lands and peoples of Asia emphasizing features important to the understanding of Asia’s landscapes and current problems. (Available for General Education, Comparative Cultural Studies.)
201. HUMAN IMPACT ON THE ENVIRONMENT (3)
A world survey through time of the role of humans in the modification of the natural environment (vegetation, animal life, soils, landforms, waters and atmosphere).
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UPPER DIVISION

300. INTRODUCTION TO GEOGRAPHIC RESEARCH (1)
300L. LABORATORY IN GEOGRAPHIC RESEARCH (2)
(NORMALLY OFFERED EVERY SEMESTER)
Prerequisite: A lower division course in the social sciences and completion of the lower division writing requirement. A study of the literature, traditions, and theories dealing with the human-environment relationship and an analysis of the approaches used by cultural geographers to elucidate the nature of this relationship. The major themes will be the cultural landscape, cultural ecology, and environmental perception. (Available for General Education, Social Sciences.)

301. CULTURAL GEOGRAPHY (3)
(NORMALLY OFFERED EVERY SEMESTER)
Prerequisite: A lower division course in the social sciences and completion of the lower division writing requirement. An introduction to geography and geographical research. It is recommended that this course be taken during the first semester of the junior year. (One hour of lecture and six hours of laboratory.)

304. MAP READING AND INTERPRETATION (1)

304L. LABORATORY IN MAP READING & INTERPRETATION (2)
Prerequisite: Geography 101 or 150. Techniques of map reading, interpretation of maps and aerial photographs, and elementary map making. One hour lecture, 6 hours of laboratory. (Satisfies the major requirement for a course in geographical techniques.)

305. MAPS AND GRAPHICS (1)

305L. LABORATORY IN MAPS AND GRAPHICS (2)
(NORMALLY OFFERED EVERY SEMESTER)
Prerequisite: A lower division course in geography or another relevant field. The design, use and preparation of maps and graphs. (One hour of lecture, six hours of laboratory.)

307. AIR PHOTO INTERPRETATION (2)

307L. LABORATORY IN AIR PHOTO INTERPRETATION (1)
Prerequisite: Geography 101 or 304 or 365. Introduction to conventional air photographs as a research tool. Emphasis on making simple measurements of air photos, techniques of interpreting the physical and cultural landscape, and using air photos in the production of maps. (Two hours of lecture and three hours of laboratory.)

311. ATMOSPHERE (3)
(NORMALLY OFFERED EVERY SEMESTER)
Prerequisites: Geography 101, 103, or similar natural science course, and completion of the lower division writing requirement. Explanations of rain, wind, smog, etc. Basic principles of energy transfer. (Available for General Education, Natural Sciences.)

318. EUROPE (3) (Formerly 320)
Prerequisite: Completion of the lower division writing requirement. An examination of the physical, historical, cultural, economic, and political factors that have shaped the contemporary European landscapes. (Available for General Education, Comparative Cultural Studies.)

321. UNITED STATES (3)
(NORMALLY OFFERED EVERY SEMESTER)
Prerequisites: A lower division course in the social sciences, and completion of the lower division writing requirement. A regional and cultural geography of the United States emphasizing human-environment interaction and the evolution of contemporary geographical patterns of population distribution, resource exploitation, transportation, and agricultural and industrial production. (Available for General Education, Social Sciences.)

322. LATIN AMERICA (3)
(NORMALLY OFFERED EVERY SEMESTER)
Prerequisite: Completion of the lower division writing requirement. A spatial and ecological survey of the environment, cultures, economies, and societies of the Latin American nations. The course emphasizes the changing settlement geography and pays special attention to Brazil, and the Andean countries. (Available for General Education, Comparative Cultural Studies.)

323. CANADA (3)
(NORMALLY OFFERED EVERY SEMESTER)
Prerequisite: Completion of the lower division writing requirement. An analysis of Canada’s regional geographic structure with emphasis on the changing cultural, economic, and political geography. Geographic interrelationships with the United States are stressed. (Available for General Education, Comparative Cultural Studies.)

324. CHINA (3)
Prerequisite: Completion of the lower division writing requirement. A geographical analysis of the peoples and culture of China, emphasizing features important to an understanding of China’s cultural and regional diversity and contemporary problems. (Available for General Education, Comparative Cultural Studies.)

325. SOUTHEAST ASIA (3)
Prerequisite: Completion of the lower division writing requirement. A geographical analysis of the peoples and culture of Southeast Asia, emphasizing features important to an understanding of Southeast Asia’s cultural and regional diversity and contemporary problems. (Available for General Education, Comparative Cultural Studies.)

326. AFRICA (3)
Prerequisite: Completion of the lower division writing requirement. A geographical analysis of the peoples and culture of Africa, emphasizing features important to an understanding of Africa’s cultural and regional diversity and contemporary problems.

328. MEXICO (3)
Prerequisite: Completion of the lower division writing requirement. A geographical analysis of Mexico, emphasizing features important to an understanding of Mexico’s regional and cultural diversity and contemporary problems. (Available for General Education, Comparative Cultural Studies.)

330. CALIFORNIA (3)
(NORMALLY OFFERED EVERY SEMESTER)
Prerequisites: A lower division course in the social sciences and completion of the lower division writing requirement. An examination of the geography of California emphasizing the evolution of contemporary patterns of population and settlement, resource exploitation, and human-environment interaction. The course focuses on the regional variation and diversity of the State’s geography. (Available for General Education, Social Sciences.)

334. SOUTHWEST PACIFIC (3)
Prerequisite: Completion of the lower division writing requirement. The cultural and regional geography of Australia, New Zealand, and the islands of Melanesia, Micronesia and Polynesia. (Available for General Education, Comparative Cultural Studies.)
335. RUSSIA AND ITS NEIGHBORS OF THE FORMER SOVIET UNION (3) (NORMALLY OFFERED SPRING SEMESTER)
Prerequisite: Completion of the lower division writing requirement. The physical, cultural, and regional geography of this pivotal and rapidly changing region extending from the Baltic Sea to the Pacific Ocean. (Available for General Education, Comparative Cultural Studies.)

340. ECONOMIC GEOGRAPHY (3) (NORMALLY OFFERED EVERY SEMESTER)
Prerequisite: A lower division course in Geography or Econ. 160 or 300. Principles governing spatial organization of society. Theoretical and empirical approaches to location of urban and rural settlement and economic activities. Spatial structures, their interrelationship, and changes in organization.

345. THE GEOGRAPHY OF INTERNATIONAL TRADE, TOURISM AND DEVELOPMENT (3)
Prerequisite: A lower division course in the social sciences and completion of the lower division writing requirement. An examination of the spatial patterns of economic development, geographical analysis of international and regional trade, and the economic geography of international tourism.

350. METROPOLITAN LOS ANGELES (3)
Prerequisite: A lower division course in geography. A geographical analysis of the Los Angeles urban area with emphasis on physical, economic, and cultural aspects of its development. (Available for General Education, Social Sciences.)

351. URBAN GEOGRAPHY (3) (NORMALLY OFFERED EVERY SEMESTER)
Prerequisites: A lower division course in the Social Sciences and completion of the lower division writing requirement. The geographical analysis of past and current patterns of world urbanization. Emphasis will be placed on city origins, growth, development, and current problems. (Available for General Education, Social Sciences.)

360. QUANTITATIVE GEOGRAPHY (2)
360L. LABORATORY IN QUANTITATIVE GEOGRAPHY (1) (NORMALLY OFFERED EVERY SEMESTER)
Prerequisite: Mathematics 140. Application of probability theory, statistical procedures, and dimensional analysis to problems in economic and cultural geography, climatology, landforms, and related fields. Graphic representation. (Two hours lecture and two hours laboratory.)

364. WORLD VEGETATION AND SOILS (2)
364L. LABORATORY IN WORLD VEGETATION AND SOILS (1) (NORMALLY OFFERED EVERY SEMESTER)
Prerequisite: Geography 101. The major vegetative formations of the world, their soil (edaphic) and atmospheric environments, and the role of human activity in modification, destruction, and replacement of vegetative structures and environments through purposeful and inadvertent activities. Local vegetative types will be examined on field trips. (Two hours lecture and two hours field activity.)

365. GEOMORPHOLOGY (2)
365L. LABORATORY IN GEOMORPHOLOGY (1) (NORMALLY OFFERED EVERY SEMESTER)
Prerequisite: Geography 101 or Geological Sciences 101, and completion of the lower division writing requirement. Analytical and descriptive study of physical processes responsible for development and evolution of Earth's surface features. Aspects of local geomorphology will be observed on field trips. (Two hours lecture and two hours field activity.) (Available for General Education, Natural Sciences.)

366. GEOGRAPHY OF ENVIRONMENTAL HAZARDS (3)
Prerequisites: A lower division science course from Physical Geography, Geological Sciences, Physics, Chemistry, or Biology. From a geographical perspective, comprehension of environmental hazards, their spatial distribution, their magnitude and frequency of occurrence and human perception of environmental hazards. This course emphasizes impact of environmental hazards on land utilization, settlement patterns, economic development and transportation systems. (Available for General Education, Natural Sciences.)

COURSES ACCEPTABLE FOR THE MASTER'S DEGREE
(300-level courses in geography do not carry graduate credit for a master's in geography. Electives will normally be in Geography at the 600-level. However, with departmental approval, certain 400-level courses in Geography and related fields may be counted toward the Master's Degree.)

402. FIELD AND LABORATORY TECHNIQUES IN PHYSICAL GEOGRAPHY (3)
Prerequisite: GEOG 311, 364 or 365. This techniques course in geomorphology, climatology and biogeography includes the principles of field surveying and mapping, water sampling, stream velocity and sediment transport measurement, basic weather station instrumentation, programming and deployment, and sampling designs for vegetation and soil analysis. The course will include two off-campus field trips. One hour lecture, six hours laboratory/field.

404A-Z. FIELD STUDIES IN GEOGRAPHY (1-3)
Prerequisite: Six units in Geography. Techniques of field observation, recordings and analysis through mapping and written reports. A-Anglo-America; B-Latin America; J-Justice; K-Historical; L-Political; M-Economic Development; N-Resources; P-Agricultural; Q-Industrial; R-Transportation; S-Settlement; T-Urban; U-Physical; V-Geomorphology; W-Climate; X-Quantitative Methods; Y-Cartography; Z-Selected Topics. Field Studies may be repeated for credit.

405. GEOGRAPHIC INFORMATION SYSTEMS (2)
405L. GEOGRAPHIC INFORMATION SYSTEMS LABORATORY (2)
Prerequisite: An upper division course in geography. Introduction to basic principles of geographic data acquisition, processing, and display through digital methods. Students will be introduced to spatial data structures and algorithms and to examples of current GIS uses. Laboratories will demonstrate the operation of a GIS package on a computer. (Two hours lecture, six hours laboratory.)

406. ADVANCED GEOGRAPHICAL INFORMATION SYSTEMS (1)
406L. ADVANCED GEOGRAPHICAL INFORMATION SYSTEMS (2)
Prerequisite: Geography 305. Techniques of professional cartography. (One hour of lecture, six hours of laboratory.)

407. REMOTE SENSING (2)
407L. LABORATORY IN REMOTE SENSING (1)
Prerequisite: Geography 304/304L. A problem oriented course emphasizing the techniques and application on imagery recorded in non-visible segments of the electromagnetic spectrum. This includes infrared, near infrared and radar imagery from aircraft and satellite platforms. (Two hour of lecture and three hours of laboratory.)

409. COMPUTER MAPPING (2)

409L. LABORATORY IN COMPUTER MAPPING (1)
Prerequisite: Upper division standing. The design, use and preparation of graphs, diagrams and maps with computers. (Two hours of lecture and three hours of laboratory.)

411. WORLD CLIMATE (3) (NORMALLY OFFERED FALL SEMESTER OF ODD YEARS)
Prerequisite: Geography 103 or 311. Comprehensive description and analysis of global world climate patterns, long-distance cause and effect relationships, and air-sea interaction.

412. BOUNDARY LAYER CLIMATOLOGY (3) (NORMALLY OFFERED SPRING SEMESTER OF ODD YEARS)
Prerequisite: Geography 311. Interrelations of weather and local topography and vegetation. Land-sea breezes, mountain-valley winds, natural and artificial windbreaks, sandstorms and duststorms, air pollution, local heat, moisture sources and sinks, frost prevention, forest fires. Field studies.

413. BIOClimatology (3)
Prerequisite: Geography 311. Description, measurement, and analysis of effects of climate on plants, animals, and humans.

414. HYDROCLIMATOLOGY (3) (NORMALLY OFFERED FALL SEMESTER OF ODD YEARS)

416. EARTH’S CHANGING CLIMATE (3)
Prerequisite: Geography 103 or 311. An analysis of Earth’s changing climate throughout geologic time. Includes consideration of the mechanisms of climate change, techniques of climate reconstruction and analysis, the chronology of climate change (major ice ages, periods of warmth and aridity, and the Little Ice Age), and global warming and ozone depletion. The course will include one weekend field trip.

435. HISTORICAL GEOGRAPHY OF RUSSIA (3)
Prerequisite: A lower division geography course or equivalent. Historical geography of Russia, emphasizing changing distributions of physical and cultural elements and evolution of the cultural landscape.

443. TRANSPORTATION GEOGRAPHY (3)
Prerequisite: Geography 340. Principles of transportation geography; an analysis of world and regional patterns of land, sea, and air transportation facilities, and their role in regional development.

444. CONSERVATION (3) (FORMERLY 344)
Prerequisites: Geography 101 or 315 and completion of the lower division writing requirement. Lecture-discussion on the percepts, concepts, practices, and problems in the human utilization of resources. Regular written assignments will be required.

451. ADVANCED URBAN GEOGRAPHY (3)
Prerequisite: Geography 351 and completion of the upper division writing requirement. Detailed analysis of theories and concepts of urban geography, including models of urban structure, central place theory, urban systems development, urban social geography, and government policy. Comparative analysis of North American, Latin American, European, and Asian cities.

452. URBAN LAND-USE PLANNING (3) (NORMALLY OFFERED SPRING SEMESTERS)
Prerequisites: A lower division course in geography, political science, or sociology and completion of the lower-division writing requirement. The principles and techniques of land-use planning in urban areas. Regular written assignments will be required.

453. HOUSING AND COMMUNITY DEVELOPMENT (3)
Prerequisite: GEOG 351 and completion of the upper division writing requirement. Detailed investigation of residential land use, neighborhood formation, and policy impacts. Case studies drawn from the local area will be used to augment the course.

459. ENVIRONMENTAL IMPACT STUDIES (3) (NORMALLY OFFERED FALL SEMESTERS)
Prerequisite: Lower division geography course and upper division standing and completion of the lower-division writing requirement. Geographic analysis of environmental control legislation affecting municipal, state, and federal planning; the application of geographic analysis to development of systems for evaluating planned land-use activities. Regular written assignments will be required.

460. SPATIAL ANALYSIS AND COMPARISON (2)

460L. LABORATORY IN SPATIAL ANALYSIS AND COMPARISON (1) (NORMALLY OFFERED SPRING SEMESTERS)
Prerequisite: Geography 360 or equivalent. Statistical analysis of quantitative data by areas. Measurement of aggregation and concentration, description of areal distribution and gradients, significance of similarities and differences. (Two hours lecture and two hours laboratory.)

462. COMPUTER APPLICATIONS IN GEOGRAPHY (2)

462L. LABORATORY IN COMPUTER APPLICATIONS (1)
Prerequisite: Upper division standing. The nature of digital computers. Coding geographic data. Utilization of standardized computing routings, geographical data banks. Computer mapping. Computer programming. (Two hours lecture, three hours laboratory.)

465. FLUVIAL GEOMORPHOLOGY (2)

465L. LABORATORY IN FLUVIAL GEOMORPHOLOGY (1) (NORMALLY OFFERED SPRING SEMESTER OF ODD YEARS)
Prerequisite: Geography 365. Role of water in landform development: weathering, overland flow, open channel
characteristics, drainage pattern evolution, and drainage basin characteristics. (2 hours lecture and two hours field activity.)

**466. GLACIAL AND PERIGLACIAL GEOMORPHOLOGY (2)**

**466L. LABORATORY IN GLACIAL AND PERIGLACIAL GEOMORPHOLOGY (1)** (NORMALLY OFFERED SPRING SEMESTER OF EVEN YEARS)

Prerequisite: Geography 365. Geographic aspects of landform development in cold climates: glacial processes, frost-activated processes, Pleistocene events and environments. (Two hours lecture and two hours field activity.)

**467. ARID LANDS GEOMORPHOLOGY (2)**

**467L. LABORATORY IN ARID LANDS GEOMORPHOLOGY (1)** (NORMALLY OFFERED FALL SEMESTER OF ODD YEARS)

Prerequisite: Geography 365. Landform development in deserts: origin of deserts, erosion and sedimentation in dry climates, morphology, aeolian processes. (Two hours lecture and two hours field activity.)

**468. COASTAL GEOMORPHOLOGY (2)**

**468L. LABORATORY IN COASTAL GEOMORPHOLOGY (1)** (NORMALLY OFFERED FALL OF ODD YEARS)

Prerequisite: Geography 365. Concepts and theories of beach and coastline development: near shore oceanoic processes, sea level fluctuations, coastal morphology, problems of classification. (Two hours lecture and two hours field activity.)

**471. GEOGRAPHY OF WINE (3)**

Prerequisite: A lower division course in geography. Geographical analysis of the production and consumption of wine of selected regions.

**482. POPULATION GEOGRAPHY (3) (FORMERLY 382)**

Prerequisite: A lower division course in geography. Geographical analysis and study of the distribution, composition, migration, and growth of world population.

**486. MEDICAL GEOGRAPHY (3)**

Prerequisite: A lower division course in geography and completion of the lower division writing requirement. An examination of the spatial distribution of human diseases at world, regional, national, and local scales. Special emphasis will be placed on understanding the physical and cultural factors associated with patterns of disease.

**486SOC. SOCIAL SCIENCE CAREER INTERNSHIP (3)**

(SAME AS HIST, PAS, POLS, PSY, AND SOC 486SOC.)

Prerequisites: Upper division standing in a social or behavioral science major, appropriate methods course as specified by the department, and consent of instructor. Social and behavioral science principles will be applied to the work place. At least nine hours per week of supervised fieldwork is required. Students will complete learning contracts and submit written reports related to their internship. (See section on Academic Internship.)

**490. SENIOR PROJECT (3)**

(NORMALLY OFFERED EVERY SEMESTER)

Preparation of a research proposal and writing of a senior paper under close faculty supervision.

**494. INTERNSHIP (3)**

Prerequisite: GEOG major with senior standing. Upon prior approval of the Internship Coordinator, a student may earn three units of credit in the major for professional service as a geographer in a public agency or private organization. No more than three units may be applies to the major. The specialization in either Urban Geography, Environmental Studies, Cartography and GIS, or Regional and International Studies. An Academic Internship course.

**496A-Z. EXPERIMENTAL COURSES IN GEOGRAPHY (3)**

Prerequisite: An appropriate upper division course in geography. Selected topics in Geography with course content to be determined. Topics may be repeated for credit.

**497A-F. SENIOR SEMINAR IN GEOGRAPHY (3)**

Prerequisite: An appropriate upper division course in geography. In a seminar setting, students will be guided in reading, research, and writing on selected topics within one of the major subdisciplines of geography. Each seminar will focus on a particular subject within the designated subdiscipline. The subjects will vary and be determined each semester. Seminars in the same subdiscipline may be repeated for credit. A-Physical, B-Cultural, C-Economic, D-Urban, E-Regional, F-Techniques.

**498. TUTORIAL IN GEOGRAPHY (1)**

Prerequisite: A lower division course in geography. Individual, supervised study in selected areas of the student’s interests. A maximum of six units is permissible for credit in the major.

**499ABC. INDEPENDENT STUDY (1-3)**

**GRADUATE**

**600. HISTORY OF GEOGRAPHIC THOUGHT (3)**

**601. CURRENT GEOGRAPHIC TRENDS (3)**

**605. SEMINAR IN CARTOGRAPHY (3)**

**650. SEMINAR IN CULTURAL GEOGRAPHY (3)**

**660. SEMINAR IN SPATIAL ANALYSIS (3)**

**651. SEMINAR IN URBAN GEOGRAPHY**

**653. SEMINAR IN AGRICULTURAL GEOGRAPHY (3)**

**655. SEMINAR IN RESOURCE UTILIZATION (3)**

**656. SEMINAR IN ECONOMIC GEOGRAPHY (3)**

**657. RESEARCH IN URBAN GEOGRAPHY (3)**

**660. SEMINAR IN SPATIAL ANALYSIS (3)**

**665. SEMINAR IN HISTORICAL GEOGRAPHY (3)**

**672. SEMINAR IN GEOGRAPHY OF ANGLO-AMERICA (3)**

**674. SEMINAR IN GEOGRAPHY OF LATIN AMERICA (3)**

**675. SEMINAR IN GEOGRAPHY OF EUROPE (3)**

**677. SEMINAR IN GEOGRAPHY OF ASIA (3)**

**678. SEMINAR IN GEOGRAPHY OF THE SOUTHWEST PACIFIC (3)**

**679. SEMINAR IN ARID LANDS (3)**

**680. SEMINAR IN PHYSICAL GEOGRAPHY (3)**

**681. SEMINAR IN CLIMATOLOGY (3)**

**682. SEMINAR IN GEOMORPHOLOGY (3)**

**683. SEMINAR IN METEOROLOGY (3)**

**685. SEMINAR IN ENVIRONMENTAL PERCEPTION (3)**

**686. SEMINAR IN ENVIRONMENTAL CHANGE (3)**

**696. DIRECTED GRADUATE RESEARCH (3)**

(NORMALLY OFFERED FALL SEMESTERS)

**698. THESIS (3)**

**699ABC. INDEPENDENT STUDY (1-3)**
GEOLOGICAL SCIENCES
COLLEGE OF SCIENCE AND MATHEMATICS
Department Office: Science 1202
Phone: (818) 677-3541
Fax: (818) 677-2820
E-mail: geology@csun.edu
Internet: http://geology.csun.edu/
Secretary: Elizabeth Queen
UNDERGRADUATE ADVISOR: Vicki Pedone
GRADUATE ADVISOR: Ali Tabidian
DEGREES OFFERED: B.S. and M.S. in Geology, Minor in Geology, and B.A. in Earth Science (jointly offered by the Departments of Geography and Geological Sciences).
ACADEMIC ADVISEMENT: Geology majors, both undergraduate and graduate, must be advised each semester before being permitted to enroll in classes through Touch Tone Registration (TTR). Undergraduate students must see Dr. Pedone and graduate students must see Dr. Tabidian for advisement.

THE MAJOR: Geology is a multidisciplinary science that applies the concepts of biology, chemistry, physics, mathematics, and engineering to the natural world around us. The rich variety of its fields of study includes oceanography, paleontology, geophysics, geochemistry, hydrogeology, engineering geology, and more. That is what makes geology an exciting and challenging major for students with broad scientific interests and a love for our natural systems, environment, and our planet’s history.

Geology majors gain basic scientific observational, reasoning, and communication skills and an understanding of geological concepts and history. This blend of interpretive scientific ability and historical perspective gives geologists an important role in society. They apply their skills and knowledge to solve complex problems related to human interaction with natural systems, hazards, and resources and to communicate solutions and options to the public.

LEARNING OUTCOMES: Undergraduate majors will receive instruction of sufficient breadth, depth, and currency to prepare them for successful appointment to entry-level professional work or graduate school. At the time of graduation, they will have learned a) background knowledge of earth materials, processes, and history; b) skills in standard geological laboratory and field data-gathering and data-analysis methods; c) how to identify geologic problems and develop testable hypotheses that would aid in their solution in both independent and collaborative modes; and d) how to present polished summaries, both written and oral, of their geological discoveries.

CAREERS: Many job opportunities are available to geology graduates with a bachelor’s degree. Opportunities exist mainly in private industry in engineering geology (evaluating sites for homes, commercial buildings, highways, tunnels, etc.), environmental geology (environmental impact studies, evaluation and remediation of contaminated sites), and hydrogeology (development and quality control of ground water resources).

Geologists are also employed in the discovery and extraction of earth resources, such as oil, gas, coal, and metallic and non-metallic resources.

Besides private industry, all levels of government—city, county, state, and federal—employ geologists for regulatory and oversight (inspection and monitoring) activities.

A degree in geology or earth science (offered in conjunction with the Geography Department) is excellent background for teaching physical science at the secondary school level and (for those with the M.S. degree) at the community college level.

The B.S. degree also offers excellent preparation for graduate school, either at Cal State Northridge or at other nationwide universities. Graduate study prepares students for those careers listed above and for governmental research jobs and university teaching and research.

DEPARTMENT PROGRAMS: The Department offers the B.S. and M.S. in Geology and a minor in Geology. For the B.S. degree, four options are available: Geology (Option I), Geophysics (Option II), Environmental Geology (Option III), and Secondary Teaching (Option IV). An Earth Science B.A. degree is offered in conjunction with the Department of Geography (see the Earth Science section of this Catalog). The major in geology is designed for students who (1) desire a liberal arts education with emphasis on geology; (2) wish to prepare for graduate work in geology, geophysics, environmental geology, or related fields; (3) wish to pursue careers in geology, geophysics, environmental geology, or related fields; or (4) wish to teach geological sciences or physical science in secondary schools. Students planning a professional career in geology or earth science should prepare for graduate study; a Master’s degree is normally required for professional advancement.

The geology major assumes a high school background in chemistry and mathematics (algebra through trigonometry). A satisfactory score on the Chemistry Placement Test is required as prerequisite to CHEM 101, 101L. Satisfactory scores on the Entry Level Mathematics Exam and Mathematics Placement Test are required as prerequisite to MATH 255A or 150A and to PHYS 100A, 100AL. Students not having this preparation will need additional course work in deficient subject areas.

The objectives of the Master of Science program in geology are: (1) to train individuals with the competence required by the geological profession for employment in industry and government agencies; (2) to enable promising students to attain a level of knowledge and research ability required for admission to a Ph.D. program at other universities; (3) to provide an M.S. program with basic course work and research requirements for students planning to teach geology at the community college level.

A minor in Geology is designed for students interested in the Earth, but with a major in another department. Biologists, engineers, mathematicians, and physicists are finding employment in environmental and energy-related industries. For these majors, the Geology minor broadens the individual’s background and competence in the earth sciences.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

OPTION I: GEOLOGY

LOWER DIVISION REQUIRED COURSES (38 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEOL 101</td>
<td>Geology of Planet Earth</td>
<td>3</td>
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<tr>
<td>GEOL 102</td>
<td>Geology of Planet Earth Laboratory</td>
<td>1</td>
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<tr>
<td>GEOL 110</td>
<td>Earth History</td>
<td>3</td>
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<tr>
<td>MATH 255A or 150A</td>
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<tr>
<td>PHYS 100A, 100AL</td>
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GEOL 112  Earth History Laboratory..........................1
GEOL 207  Mineralogy............................................3
GEOL 230  Field Studies I.......................................1
GEOL 231  Field Studies II.....................................2
CHEM 101,101L  General Chemistry I & Lab......................5
CHEM 102,102L  General Chemistry II & Lab....................5
COMP 100  Computers: Their Impact and Use..................3
MATH 255A*  Calculus I..........................................3
PHYS 100A,100AL**  General Physics I and Laboratory.........4
PHYS 100B,100BL**  General Physics II and Laboratory........4
*or MATH 150A
**or PHYS 220A, 220AL, 220B, 220BL

UPPER DIVISION REQUIRED COURSES (26 UNITS)

GEOL 307  Petrology.............................................4
GEOL 310  Structural Geology....................................4
GEOL 341  Sedimentation and Stratigraphy....................3
GEOL 342  Field Studies in Stratigraphy......................1
GEOL 351  Fundamentals of Paleontology......................4
GEOL 370  Computer Applications in Geology..................2
GEOL 431  Advanced Field Studies..............................1
GEOL 464  Applied Geophysics..................................3
GEOL 497  Research Methods and Design........................1
GEOL 498  Senior Thesis.........................................1

ELECTIVES (21 UNITS)

These should be selected from the following list (to include at least 11 units of upper-division Geology courses)

Biol. 313
CHEM 235, 321, 321L, 322, 322L
CE 426/L
COMP 101, 105
CEOG 405, 465, 466, 467, 468
GEOL any upper-division geology course exclusive of 300, 301.
HSCI 454, 457, 459, 469
MATH 140, 150B, 250, 255B, 262, 280, 351
PHYS 220C

Other electives that meet department approval also qualify.

TOTAL UNITS IN THE MAJOR, OPTION I (85 UNITS)

GENERAL EDUCATION (36 UNITS)

Subsection A.3 (Mathematics), Section B (Natural Sciences), and Section E (Applied Arts and Sciences) are met by required courses in the major. ECON 200 or ECON 300 partially satisfies Section D (Social Sciences) and is recommended.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (1 UNIT)

TOTAL UNITS REQUIRED FOR THE B.S. DEGREE, OPTION I: 128

OPTION II: GEOPHYSICS

LOWER DIVISION REQUIRED COURSES (49 UNITS)

GEOL 101  Geology of Planet Earth......................3
GEOL 102  Geology of Planet Earth Laboratory..............3
GEOL 207  Mineralogy............................................3
GEOL 230  Field Studies I.......................................1
COMP 101  Introduction to Algorithms........................2
COMP 105  Computer Programming..............................1
MATH 150A  Mathematical Analysis I..........................5
MATH 150B  Mathematical Analysis II........................5
MATH 250  Mathematical Analysis III..........................3
MATH 280  Applied Differential Equations...................3
CHEM 101,101L  General Chemistry I & Lab....................5
CHEM 102,102L  General Chemistry II & Lab....................5
PHYS 220A, 220AL  Mechanics and Laboratory..............4
PHYS 220B, 220BL  Electricity & Magnetism and Lab........4
PHYS 220C, 221CL  Light, Heat & Sound & Laboratory.....4

UPPER DIVISION REQUIRED COURSES (36 UNITS)

GEOL 307  Petrology.............................................4
GEOL 310  Structural Geology....................................4
GEOL 341  Sedimentation and Stratigraphy....................3
GEOL 342  Field Studies in Stratigraphy......................1
GEOL 351  Fundamentals of Paleontology......................4
GEOL 370  Computer Applications in Geology..................2
GEOL 370  Computer Applications in Geology..............2
GEOL 431  Advanced Field Studies..............................1
GEOL 464  Applied Geophysics..................................3

GEOLOGICAL SCIENCES 343
UPPER DIVISION REQUIRED COURSES (30 UNITS)

LOWER DIVISION REQUIRED COURSES (47 UNITS)

OPTION IV: SECONDARY TEACHING (128 UNITS)

TOTAL UNITS REQUIRED FOR THE B.S. DEGREE, OPTION III (85 UNITS)

GENERAL EDUCATION (36 UNITS)

TOTAL UNITS IN THE MAJOR, OPTION IV (85 UNITS)

ADDITIONAL UNITS (1 UNIT)

ELECTIVES (8 UNITS)

These should be selected from the following list:

- BIOL 313
- CHEM 235, 321, 321L, 322, 322L
- CE 426/L
- COMP 100
- GEOG 405, 465, 466, 467, 468
- GEOL any upper-division course exclusive of 300, 301.
- HSCI 454, 457, 459, 469
- MATH 140, 150B, 250, 255B, 262, 280, 351
- PHYS 220C

Other electives that meet department approval also qualify.

TOTAL UNITS IN THE MAJOR, OPTION IV (85 UNITS)

ADDITIONAL UNITS (1 UNIT)

TOTAL UNITS REQUIRED FOR THE B.S. DEGREE, OPTION IV: 128

OPTION IV: SECONDARY TEACHING

LOWER DIVISION REQUIRED COURSES (47 UNITS)

UPPER DIVISION REQUIRED COURSES (8 UNITS)

UPPER DIVISION ELECTIVES (3 UNITS)

UPPER DIVISION ELECTIVES (7 UNITS)

These should be selected from the following list:

- GEOG 405
- GEOL any upper-division geology course exclusive of 300, 301.
- HSCI 454, 457, 459, 469

TOTAL UNITS IN THE MAJOR, OPTION III (85 UNITS)

GENERAL EDUCATION (36 UNITS)

Subsection A.3 (Mathematics), Section B (Natural Sciences), and Section E (Applied Arts and Sciences) are met by required courses in the major. ECON 200 or ECON 300 partially satisfies Section D (Social Sciences) and is recommended.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (1 UNIT)

TOTAL UNITS REQUIRED FOR THE B.S. DEGREE, OPTION III: 128

OPTION IV: SECONDARY TEACHING

LOWER DIVISION REQUIRED COURSES (47 UNITS)

UPPER DIVISION REQUIRED COURSES (30 UNITS)

UPPER DIVISION ELECTIVES (3 UNITS)

ELECTIVES (8 UNITS)

These should be selected from the following list:

- BIOL 313
- CHEM 235, 321, 321L, 322, 322L
- CE 426/L
- COMP 100
- GEOG 405, 465, 466, 467, 468
- GEOL any upper-division course exclusive of 300, 301.
- HSCI 454, 457, 459, 469
- MATH 140, 150B, 250, 255B, 262, 280, 351
- PHYS 220C

Other electives that meet department approval also qualify.

TOTAL UNITS IN THE MAJOR, OPTION IV (85 UNITS)

ADDITIONAL UNITS (1 UNIT)

TOTAL UNITS REQUIRED FOR THE B.S. DEGREE, OPTION IV: 128

MAJOR IN EARTH SCIENCE

An interdisciplinary major involving astronomy, biology, chemistry, physics, geology, and geography. See Earth Science section of this catalog.

MINOR IN GEOLOGY

LOWER DIVISION REQUIRED COURSES (16 OR 17 UNITS)

- CHEM 101, 101L General Chemistry I and Laboratory
- CHEM 105, 110L Principles of Chemistry and Lab, 105, 110L Principles of Chemistry and Lab...
- GEOL 101 Geology of Planet Earth
- GEOL 102 Geology of Planet Earth Lab
- GEOL 110 Earth History Laboratory
- GEOL 230 Field Studies I
- CHEM 101, 101L General Chemistry I and Laboratory
- CHEM 105, 110L Principles of Chemistry and Lab...
- GEOL any upper-division course exclusive of 300, 301.
- GEOG 405, 465, 466, 467, 468
- COMP 100
- PHYS 220C

UPPER DIVISION REQUIRED COURSES (8 UNITS)

- GEOL 307 Petrology
- GEOL 351 Fundamentals of Paleontology

UPPER DIVISION ELECTIVES (3 UNITS)

These should be selected from any upper division Geology courses exclusive of 498 and 499.

TOTAL UNITS REQUIRED FOR THE MINOR (27 OR 28 UNITS)

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

For admission to the program:

1. B.S. degree in Geology or its equivalent. B.S. degree must contain at least 5 units of field geology courses, to include a significant field mapping experience and a substantial written report. Students who do not have appropriate course work may be conditionally admitted to the program, but will be required to complete any deficient course work without graduate credit during their first year of residence.
2. University requirements for admission, with the exception that the grade point average in the last 60 units must be 2.75. Those applicants with a grade point average in the last 60 units of between 2.5 and 2.75 may still be admitted if the average of the scores on the General Aptitude portion of the Graduate Record Examination is 50th percentile or greater.

3. Graduate Record Examination: General Aptitude only For the degree:
A minimum of 30 semester units is required, with at least 21 units at the 500- or 600-level. Each student will be advised by a Graduate Advisory Committee consisting of three or more faculty members. The Graduate Advisory Committee will guide the student in the proper selection of courses related to the student’s main field of interest to assure that an integrated body of knowledge is obtained. The student must obtain initial approval from the Graduate Advisory Committee for the thesis topic selected as well as final approval of the content of the completed thesis.

1. Required courses (6 Units)
GEOL 696 Directed Graduate Research ...........3
followed by
GEOL 698 Thesis or Graduate Project .......... 3

2. Elective courses (24 Units)
These should be selected with an advisor approval from 400-level geological sciences courses not required for the B.S. in Geology and from 500-level and 600-level geological sciences courses. With advisor approval, up to 9 units of appropriate courses from related areas in science, mathematics or engineering may be substituted for geological sciences courses. 300-level courses do not carry graduate credit, and a maximum of 9 units of 400-level courses may be applied toward the 30 units required for the degree.

(NOTE: In some cases service as a teaching assistant in the Department may be advised as part of the student’s educational experience.)

TOTAL UNITS REQUIRED FOR M.S. DEGREE: 30

COURSE LIST
LOWER DIVISION
100. INTRODUCTION TO GEOLOGY (2)
Study of the principal aspects of the composition, processes of modification, and history of the solid earth and its biosphere, atmosphere, and hydrosphere. Students using this course to satisfy a General Education requirement in Natural Sciences may satisfy the corresponding laboratory requirement by completing GEOL 102. Students may not receive credit for both GEOL 100 and 101.

101. GEOLOGY OF PLANET EARTH (3)
Studies of the geologic materials and processes that shape our earth and our environment are explored as they relate to our everyday lives. Topic include: global tectonics; earthquakes and other geologic hazards; glacial, river and coastal processes that form our landscapes; water, mineral and energy resources; and waste disposal and pollution. Lecture 3 hours, field trip. Students using this course to satisfy a General Education requirement in the Natural Sciences may satisfy the corresponding laboratory requirement by completing GEOL 102. Students may not receive credit for both GEOL 100 and GEOL 101.

102. GEOLOGY OF PLANET EARTH LABORATORY (1)
Corequisite or prerequisite: GEOL 100 or 101. Identification of rocks and minerals. Introduction to topographic maps and how they are used to interpret geologic processes and geologic history. Interpretation of geologic maps and data relating to earthquakes and plate tectonics. Laboratory 3 hours, field trips. This course may be used to satisfy the laboratory requirement in Natural Sciences of General Education provided either GEOL 100 or 101 is completed.

110. EARTH HISTORY (3)
An introduction to the dynamic study of the Earth’s evolution, including changes in its crust, oceans, atmosphere, and climate, and how these changes, woven into the fabric of geologic time, affected major groups of plants and animals, including dinosaurs and humans. Students using this course to satisfy a General Education requirement in Natural Sciences may satisfy the corresponding laboratory requirement by completing GEOL 112.

112. EARTH HISTORY LABORATORY (1) (Formerly 215)
Prerequisite or corequisite: GEOL 110. Course content includes introduction to fossil, relative-age relationships, and construction and interpretation of maps and cross-sections that emphasize paleogeography and sedimentary rocks. Laboratory 3 hours, a one-day field trip. This course may be used to satisfy the laboratory requirement in Natural Sciences of General Education provided GEOL 110 is completed.

122. THE WORLD OCEAN (3)
An introduction to the oceans. Evolution of the ocean basins, their environment and resources. Aspects of biological, chemical, geological and physical oceanography. Lecture 3 hours, field trips. Students using this course to satisfy a General Education requirement may satisfy the corresponding laboratory requirement by completing GEOL 123.

123. WORLD OCEAN LABORATORY (1)
Corequisite or prerequisite: GEOL 122. An introduction to oceanographic data, its collection and interpretation. Laboratory 3 hours, field trips. This course may be used to satisfy the laboratory requirement in the Natural Sciences of General Education provided GEOL 122 is also completed.

207. MINERALOGY (3) FALL ONLY
Prerequisite: GEOL 101 and 102 and CHEM 101 or 105. A study of the nonsilicate and silicate minerals with emphasis on crystallography, mineral chemistry, physical properties, occurrence, origin and associations. Lecture 2 hours, laboratory 3 hours, field trips.

230. FIELD STUDIES I (1)
Prerequisites: GEOL 102 and 112. Study of and practice in techniques and methods of geologic field studies, including note taking, mapping, analysis of geologic history and structures, and introduction to geologic illustration and report writing. Approximately six days of field work accomplished on overnight weekend trips.

231. FIELD STUDIES II (2)
Prerequisite: GEOL 230. A continuation of GEOL 230, with increased emphasis on geologic mapping and problem solving in the field. About six days of field work on Saturday and overnight weekend trips. Extensive practice in writing and illustrating geologic reports.
346. GEOLOGICAL SCIENCES 2000-2002

300. ENVIRONMENTAL GEOLOGY (3)
Prerequisite: Completion of the lower-division writing requirement. Study of the relationship between humans and the earth and the application of geology to environmental problems. Topics include geological hazards, pollution, mineral and energy resources, land use planning, and environmental impact. Students using this course to satisfy a General Education requirement in the Natural Sciences may satisfy the corresponding laboratory requirement by completing GEOL 301. Credit cannot be received for both GEOL 130 and GEOL 300. Lecture 3 hours, field trips.

301. ENVIRONMENTAL GEOLOGY LABORATORY (1)
Corequisite or prerequisite: GEOL 300. An introduction to geologic materials and processes as they are applicable to the human environment. Included are practical exercises on rocks, minerals, geologic maps, and water, mineral and energy resources. Earthquake, volcanic, landslide, and flood hazard evaluations are also performed. Laboratory 3 hours, field trips. This course may be used to satisfy the laboratory requirement in the Natural Sciences of General Education Section provided GEOL 300 is also completed.

307. PETROLOGY (4) SPRING ONLY
Prerequisite: GEOL 207. An introduction to the classification and origin of igneous and metamorphic rocks, including the optical properties of minerals. Laboratory study of these rocks will utilize hand-specimen characteristics and the petrographic microscope. Lecture 2 hours, laboratory 6 hours, field trips.

310. STRUCTURAL GEOLOGY (4)
Prerequisites: GEOL 102 and 112. Study of rock deformational processes and resulting structures in the earth’s crust. Laboratory work emphasizes the use of graphic methods to assist in the geometric and kinematic interpretation of rock structures. Lecture 2 hours, laboratory 6 hours.

312. INTRODUCTORY OCEANOGRAPHY (4)
Prerequisites: Completion of geology, engineering, or biology core program OR consent of the instructor, and completion of the lower-division writing requirement. This course is designed for the engineering or science major who requires a general background in oceanography. A study of biological, chemical, geological, and physical oceanography. Lecture 3 hours, laboratory 3 hours, field trips.

330. FIELD STUDIES III (2)
Prerequisite: GEOL 231. Geologic investigation and mapping of an assigned field area. Six days of study and mapping in the field, followed by preparation of an extended geologic report.

331. PHOTOGEOLOGY (3)
Prerequisite: GEOL 101 or GEOG 101. A study of land forms and interpretations of structure from topographic maps and aerial photographs. Lecture 2 hours, laboratory 3 hours, field trips.

341. SEDIMENTATION AND STRATIGRAPHY (3)
Prerequisite: GEOL 102, 112 or consent of instructor. Basic concepts of sedimentation and stratigraphy are developed with an emphasis on their relationship to tectonic setting and changes in sea level. Topics include: properties and classification of sedimentary rocks; recognition of depositional environments in ancient rocks; sequence stratigraphy; and correlation of rock units based on lithology, fossil, and geophysical properties. Lecture 2 hours, laboratory 3 hours.

342. FIELD STUDIES IN STRATIGRAPHY (1)
Corequisite: GEOL 341, prerequisite: GEOL 230. Concepts and critical thinking developed in GEOL 341 will be reinforced by observation of sedimentary rocks and stratigraphic problems in the field. Projects will include: determination of depositional environment, measurement and correlation of stratigraphic sections, recognition of depositional sequences and sequence boundaries. Rocks collected in the field will be used in laboratory exercises in GEOL 341. Short written reports and preparation of geologic illustrations required. Six days of field work, including overnight weekend trips.

345. GEOLOGY OF CALIFORNIA (2)
Prerequisite: Completion of the lower-division writing requirement. A study of the geologic history, structure, minerals, rocks, fossil, and modern geologic processes of California. Lecture 2 hours, field trips.

351. FUNDAMENTALS OF PALEONTOLOGY (4)
Prerequisite: Two courses in either geology or biology. A complete survey of past life on the earth, including fossil cyanobacteria, macroscopic algae, protists, plants (also spores and pollen), invertebrates, and vertebrates, their evolution, distribution, and paleontology, with emphasis on methods used by paleontologist, especially for environmental studies. Lecture 3 hours, laboratory 3 hours, field trips.

370. COMPUTER APPLICATIONS IN GEOLOGY (2)
Prerequisite: COMP 100 or equivalent. An introduction to computer applications in geology. Subjects will include geographical presentation of geological data, introductory statistics and data analysis, geologic data base acquisitions and data base management, computer contouring and geologic maps and cross sections with computers. Term projects will be required. Lecture 1 hour, laboratory 3 hours.

431A-R. ADVANCED FIELD STUDIES (1)
Prerequisite: GEOL 231. Advanced techniques of field observation, recording, analysis, and report writing in various fields of geology. A-Minerals; B-Igneous rocks; C- Metamorphic Rocks; D-Sedimentary Rocks; E-Sedimentary Environments; F-Invertebrate Paleontology; G- Micropaleontology; H-Oceanography; I-California Geology; J-Environmental Geology; K-Engineering Geology; L-Hydrogeology; M-Geophysics; N-Remote Sensing; O-Geochemistry; P-Structural Geology; Q-Quaternary Geology; R-General Geology. Requires six days of field work, usually on weekends. Individual courses may not be repeated.

460. THEORETICAL GEOPHYSICS (3)
Prerequisites: PHYS 220A, B, and C, and MATH 250, or consent of instructor. Application of classical physics to the study of the Earth. Topics include origin of earth, its gravitational, geomagnetic, and geothermal characteristics, seismicity and the dynamics of the Earth’s crust, plate tectonics, and continental drift. Lecture 3 hours, field trips.

464. APPLIED GEOPHYSICS (3)
Prerequisites: GEOL 230, GEOL 307, MATH 150A or 255A or consent of instructor. Introduction to the basic principles and techniques of geophysics. Course includes study of seismic reflection and refraction, earthquakes, gravity, magnetic, electrical resistivity, ground penetrating radar, and global positioning system satellites. Lecture 2 hours, laboratory 3 hours, field trips.

497. RESEARCH METHODS AND DESIGN (1)
Prerequisite: Junior or senior standing and consent of instructor. Students will be advised and guided in research methods and design. Each student will use critical
reasoning and the scientific method to develop and write their own research proposal, with the intention that they will execute the project for their Senior thesis. The written proposal will be patterned after those required by the National Science Foundation.

498. SENIOR THESIS (1)
Prerequisites: GEOL 497 and consent of instructor. Following approval by the thesis advisor of a written proposal, the student will complete an original research project in consultation with the faculty advisor. Results of the research will be presented orally to the Department of Geological Sciences.

499. INDEPENDENT STUDY (1-3)
See Independent Study under Courses of Study. Cannot be used for General Education credit.

GRADUATE COURSES

500. ENVIRONMENTAL GEOLOGY SEMINAR (3)
Prerequisites: Upper-division standing in Geology or Earth Science or consent of instructor. A seminar on current literature and research dealing with contemporary problems in environmental geology. Suggested topics include: environmental impact analysis; hazard evaluation for earthquakes, volcanoes, floods, landslides; coastal erosion; surface and subsurface water resources and pollution; mineral and energy resources and waste disposal. Seminar 3 hours.

505. THE EVOLUTION OF GLOBAL SYSTEMS (3)
Prerequisites: Upper-division standing in Geology or Earth Science or consent of instructor. The impact of biological, physical, and astronomical forces on the evolution of Earth systems throughout all of geologic time will be studied. The course will be a combination of lecture/discussion and student seminars on material from the scientific literature including use of Internet resources.

508. INVERTEBRATE PALEONTOLOGY (4)
Prerequisites: GEOL 351 or BIOL 313 and 392B. Detailed study of mega-invertebrate fossils including their taxonomy, morphology, skeletal chemistry, fossil record, evolutionary trends, ecology, and paleoecology. Lecture 3 hours, laboratory 3 hours, field trips.

510. ADVANCED TOPICS IN PALEONTOLOGY (3)
Prerequisites: GEOL 341, 351 and 508. Seminars in various topics in Invertebrate Paleontology, such as biostratigraphy, paleoecology, functional morphology, etc. May be repeated for credit as topic changes. Seminar 3 hours.

513. MICROPALEONTOLOGY (4)
Prerequisite: GEOL 351 or BIOL 313. Study of microfossils, especially Foraminifera and Radiolarians; their classification, common genera, morphology, evolutionary trends, ecology, paleoecology, and use as indicators of present and past environments. Students will be required to work and report on unknown material. Lecture 2 hours, laboratory 6 hours.

515. ADVANCED MICROPALEONTOLOGY (5)
Advanced studies in morphology, taxonomy, ecology, and paleoecology of microfossils; biostratigraphy and age determinations of sedimentary rocks. Lecture 3 hours, laboratory 6 hours.

518. SEDIMENTARY PETROLOGY (4)
Prerequisite: GEOL 341. A study of the characteristics, classification, and origin of sedimentary rocks, including mechanical, chemical, and optical analysis of detrital and chemical sediments and sedimentary rocks and examination of depositional structures. Lecture 2 hours, laboratory 6 hours.

520. ADVANCED STRATIGRAPHIC ANALYSIS (3)
Prerequisites: GEOL 341 or consent of instructor. Principles and techniques of stratigraphic analysis with emphasis on interpreting the stratigraphic record to aid in reconstruction of environment of deposition and paleogeography. Course will revolve around a field problem and include application of methods from physical stratigraphy, biostratigraphy, and sedimentary petrology to solution of the problem. Lecture 1 hour, laboratory 3 hours.

521. SEDIMENTARY ENVIRONMENTS (3)
Prerequisites: GEOL 341 or consent of instructor. Corequisite: GEOL 431E. A study of the characteristics of modern sedimentary environments and how these characteristics are used to recognize ancient sedimentary environments. Seminar 3 hours.

525. SEISMIC STRATIGRAPHY SEMINAR & LABORATORY (3)
Prerequisite: GEOL 464. Introduction to the fundamentals of seismic stratigraphy, emphasizing the interpretation of seismic reflection profiles. Seminar 1 hour, laboratory 6 hours, field trip.

527. WELL-LOG ANALYSIS (3)
Prerequisites: GEOL 341 and PHYS 100B or 220B. An introduction to the theory and application of wireline logs. Logs studied include spontaneous potential, resistivity (such as induction-electric), porosity (such as ionic), radioactivity, and others. Laboratory work includes practical determination of porosity, permeability, oil saturation, and other parameters using various well logs.

530. SEMINAR IN STRUCTURAL GEOLOGY & TECTONICS (3)
Prerequisites: GEOL 310. Critical review of selected topics concerning the analysis, interpretation, and origin of geologic structures, and the mechanics of rock deformation and of large scale crustal deformation. Seminar 3 hours.

536. IGNEOUS PETROLOGY (4)
Prerequisite: GEOL 307. A study of the more important kinds of igneous rocks, emphasizing distribution, origin, causes of compositional variation, and relation to tectonic factors. Representative rock suites and computer techniques are studied in the lab. Lecture 3 hours, laboratory 3 hours, field trips.

538. METAMORPHIC PETROLOGY (2)
Prerequisite: GEOL 307. A study of the various facies of metamorphic rocks with emphasis on classification, mineralogy, and environments of formation. Mineral assemblages and textural relationships are studied in thin sections. Lecture 1 hour, laboratory 3 hours, field trips.

540. ADVANCED IGNEOUS PETROLOGY (3)
Prerequisites: GEOL 307, 536, or consent of instructor. Advanced study of the occurrence and petrogenesis of igneous rocks; three hours of laboratory per week will include microscopic study of selected rock suites and application of instrumental techniques to igneous rocks.

541. ADVANCED METAMORPHIC PETROLOGY (3)
Prerequisites: GEOL 307, 536, or consent of instructor. Advanced study of the occurrence, origin and interpretation
of metamorphic rocks; three hours of laboratory per week will include microscopic study of rock suites.

552. GEOCHEMISTRY (3)
Prerequisite: GEOL 307 or consent of instructor. The application of the principles of chemistry to geological problems. Topics include nucleosynthesis, origin of the solar system, elemental distribution, and stable and unstable isotopes. Lecture 3 hours.

553. ANALYTICAL GEOCHEMISTRY (1)
Prerequisites: CHEM 102 and GEOL 307, or consent of instructor. Instrumental analysis of rocks and minerals. Includes theory and practical application of X-ray spectroscopy, X-ray diffraction, atomic absorption spectrophotometry, mass-spectrometry, and electron microprobe. Laboratory 3 hours.

555. ADVANCED GEOCHEMISTRY (3)
Prerequisites: GEOL 552 or consent of the instructor. Methods of radiometric age determination including dating of igneous and metamorphic rocks and sediments; use of lead and strontium as natural tracers; light stable isotopes, oxygen, carbon and sulfur as petrogenetic indicators; igneous rocks and ore-forming processes.

560. ADVANCED OCEANOGRAPHY (4)
Prerequisites: GEOL 322 and completion of geology, engineering, or biology core program, or consent of instructor. A study of biological, chemical, descriptive, and physical oceanography. Lecture 3 hours, laboratory 3 hours, field trips.

563. MARINE GEOLOGY (3)
Prerequisites: GEOL 307 and 322, or consent of instructor. Plate tectonics and evolution of the ocean, geomorphology and structure of the ocean floor, classification, distribution, and environment of marine sediments, paleo-oceanography. Field trips, class participation, and research paper required. Lecture and seminar 3 hours.

564. ADVANCED MARINE GEOLOGY (3)
Prerequisites: GEOL 322, 563, or consent of instructor. Studies in marine geomorphology, reflection, seismic profiling, tectonics, sedimentation, stratigraphy, coastal development, and allied topics. Seminar, lecture, field trips, and research.

567. GEOLOGICAL REMOTE SENSING (3)
Prerequisites: Upper-division standing in Geology or Earth Science, GEOL 370 or consent of instructor. By using multiple types of airborne and satellite remote sensing imagery, including analog and digital photography, radar (SAR) and satellite thematic mapper and SPOT images, students will learn to identify and map geologic and environmental features and conditions. Field trips to JPL and a geologic/environmental site. Lecture 1 hour, laboratory 6 hours.

570. ADVANCED COMPUTER APPLICATIONS IN GEOLOGY (4)
Prerequisites: Upper-division standing in Geology or Earth Science, GEOL 370 or equivalent. Fundamentals of geological data processing, map analysis, and advanced statistics and graphical techniques. Topics to include geological data base management, geologic modeling (contouring), geologic maps, cross sections and illustrations with computers, GIS and other specialized programs related to specific geological applications. Term projects, papers and presentations will be required. Lecture 2 hours, laboratory 6 hours.

575. HYDROGEOLOGY (3) FALL ONLY
Prerequisite: Upper-division standing in geology, engineering, or other related areas; MATH 255A recommended. Study of groundwater, emphasizing geologic controls, occurrence, movement, development, management, and quality. Lecture 3 hours.

575L. HYDROGEOLOGY LABORATORY (1) FALL ONLY
Corequisite or prerequisite: GEOL 575. Mapping and interpretation of hydrogeologic data. Field and laboratory methods will be used to characterize and quantify aquifer properties, geometry and input and output. Field trips.

576. ADVANCED HYDROGEOLOGY (3)
Prerequisites: Geol 575 and computer literacy recommended. Study of groundwater, emphasizing analytical methods and mechanism of groundwater flow and solute transport in porous media. Various topics in the field of water quality and contaminant transport in the subsurface environment will be discussed.

578. GROUNDWATER MODELING (3)
Prerequisites: Geol 575 and computer literacy. Approximation of groundwater equations by finite-difference and finite-element methods. Practical exercises on calibration, verification, and prediction of groundwater behavior and solute movement under various initial and boundary conditions.

580. ENGINEERING GEOLOGY (3)
Prerequisites: Upper-division standing in Geology or Earth Science, COMP 100 or equivalent; or consent of instructor. Application of geologic factors to engineering projects such as residential developments, buildings, dams, bridges, tunnels and waste disposal sites. Topics will include an introduction to soil mechanics, groundwater in engineering geology, landslides, earthquakes, subsidence, waste disposal and engineering geologic site investigations, maps and reports. Lecture 2 hours, laboratory 3 hours, field trips.

581. SEMINAR IN ENGINEERING GEOLOGY (3)
Prerequisites: GEOL 580 or consent of instructor. Advanced study relating geologic factors to engineering projects, with emphasis on slope stability, subsidence, engineering seismology, and construction problems related to engineering geology.

595. TOPICS IN GEOLOGICAL SCIENCES (1-3)
Prerequisite: Consent of instructor. Special topics in the geological sciences with the course content to be determined.

679. GROUNDWATER MODELING (3)
Corequisite or prerequisite: GEOL 575. Mapping and interpretation of hydrogeologic data. Field and laboratory methods will be used to characterize and quantify aquifer properties, geometry and input and output. Field trips.

696. DIRECTED GRADUATE RESEARCH (1-3)

698. THESIS OR GRADUATE PROJECT (1-6)

699. INDEPENDENT STUDY (1-3)
Prerequisite: Consent of instructor. See independent study under courses of study.
GERONTOLOGY
INTERDISCIPLINARY MINOR
COLLEGE OF HEALTH AND HUMAN DEVELOPMENT
Phone: (818) 677-3001
PROGRAM COMMITTEE: Audrey Clark (Family Environmental Sciences), Miriam Cotler (Health Sciences), Jean Daniels (Sociology), Allen Martin (Family Environmental Sciences), Maura Mitrushina (Psychology), Louis Rubino (Health Sciences), Steven Sinclair (Communication Disorders), Veda Ward (Leisure Studies and Recreation).

DEGREE OFFERED: Minor in Gerontology.

ACADEMIC ADVISEMENT: Interested students should consult either the Coordinator or a member of the Program Committee.

THE PROGRAM: The interdisciplinary minor in Gerontology (scientific study of the processes and phenomena of aging) is offered by the College of Communication, Health and Human Development. The minor serves as a complement to a variety of academic majors. It offers students an opportunity to explore career opportunities in programs and services in the field of aging. The minor also supports students who already have experience in programs and services for older adults who wish to continue their education. Many courses in the Minor program may satisfy requirements or electives in their academic majors. Courses which indicate a prerequisite may be taken with the consent of the instructor.

REQUIREMENTS FOR THE MINOR
CORE REQUIREMENTS (12 UNITS)
FES 424 Resource Management for the Elderly........3
HSCI 314 Introduction to Community Health Services.3
LSRC 415 Leisure and Aging.............................................3
PSY 365 Introduction to Gerontology
or
SOC 440 Sociology of Aging.............................................3

ELECTIVES (9-10 UNITS)
A. Psychosocial-Sociological-Physiological Aspects of Aging:
   (3-4 units)
CD 345 Hearing Science .............................................3
HSCI 305 Adult/Aged Self Care Agency ...................3
HSCI 440 Family Health ................................................3
KIN 566 Seminar ...........................................................3
PSY 465 Aging...............................................................4
SOC 303 The Family......................................................3
SOC 307 Ethnic Diversity in America .....................3

B. Aspects of Independent and Institutional Living: (3 units)
FES 425 Independent Living Disabled......................3
HSCI 422 Health Services for the Elderly & MI........3
SOC 356 Introduction to Social Welfare ...................3

C. Areas of Special Interest: (3 units)
ART 481 Art as Therapy ...............................................3
FES 354 Apparel for Special Groups...........................3
FES 409 Geriatric Nutrition ........................................3

INTERNSHIP (3 UNITS)
Three units pertaining to aging programs and services to be taken in any participating department.

TOTAL UNITS REQUIRED FOR THE INTERNSHIP
(24-25 UNITS)

POSTBACCAULAUREATE CERTIFICATE
The Certificate Program is designed to meet the special needs of those who are employed working with the elderly, or who want to expand their expertise so that they may better serve the aging population. Students have an opportunity to study the aging process, the problems and opportunities of the aged, and delivery systems for programs and resources. In addition, current social and psychological issues are addressed.
Contact the Coordinator of Gerontology for current information about this program.
HEALTH SCIENCES
Chair: Miriam Cotler

COLLEGE OF HEALTH AND HUMAN DEVELOPMENT
Department Office: Engineering, Room 2206
Phone: (818) 677-3101    Fax: (818) 677-2045
E-mail: hsci@csun.edu

Administrative Operations Analyst: Fayrene Flowers

FACULTY: Jan Adams, Janna Beling, Peter Bellin, Miriam Cotler, Sandra Donohue, Vicki Ebin, Bonnie Faberty, Ronald Fischbach, Shelia Harbert, Thomas Hatfield, Martha Highfield, Robert Huff, Dennis Kelly, Michael Kline, Goteti Krishnamurty, Sheryl Low, Roberta Madison, Brian Malec, Ellen McFadden, Diana Osterhues, Janet Reagan, Peggy Roller, Louis Rubino, John Schillinger, Owen Seiver, Jerome Seliger, Beth Simpson, Anita Slechta, Jack Winkelman, George Wolle

PROFESSORS EMERITUS: Mary E. Bennett, Helen Brajkovich, Claude Cook, Seymour Eiseman, Mary Ellen Etherington, John Fodor, Lenann Glass, Bernard Haines, Donald Hufhines, Mary Parker, Wilfred Sutton

DEPARTMENT UNDERGRADUATE AND GRADUATE PROGRAMS:
The primary objective of the Department of Health Sciences is the education of students preparing for professional careers in private and public health services. Health Science is multidisciplinary, directed toward understanding factors affecting health and toward improving health status of populations and individuals. The professional programs are based upon a foundation in the liberal arts, and the physical and behavioral sciences. They are particularly directed to preparation for the specific programmatic discipline.

UNDERGRADUATE PROGRAMS:
- Environmental and Occupational Health
- Industrial Hygiene Option
- Health Administration
- Health Education
- Nursing
- Radiologic Technology

GRADUATE PROGRAMS:
- Environmental and Occupational Health, Industrial Hygiene Option
- Health Education
- M.S. in Public Health
- Health Administration
- Physical Therapy

THE DEPARTMENT ALSO OFFERS:
- Health Science and Health Education Single Subject Credential
- School Nurse Credential
- Public Health Nurse Certification
- Certificate in Hazardous Waste Management

ACADEMIC ADVISEMENT
Faculty advisors are available prior to registration and throughout the semester during regular scheduled office hours. Program advisement should be obtained at that time. The department requires advisement prior to Touch-Tone Registration. Students are responsible for completing all of the requirements for the degree as listed in the catalog the year in which they were admitted. Substitutions for a required course may be permitted only by petition submitted prior to enrollment in the course.

CREDENTIAL INFORMATION
- Health Science Single Subject Credential–see Health Education Program.
- School Nurse Program–see the Credential section of this catalog.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE
LOWER DIVISION
Please refer to the specific Program for a summary of lower division requirements.

UPPER DIVISION (REQUIRED FOR ALL PROGRAMS)
The core contains four areas of competence, which encompass knowledge, understanding and skills relevant to all Health Sciences majors:

REQUIRED AREAS:
1. Interpersonal Skills
2. Health and Disease
3. Administrative Skills & Organization of Health Delivery Systems
4. Statistical and Evaluative Skills

To meet core requirements, all majors in the Department of Health Sciences must complete at least one course in three of the four competency areas. Units required: 9-10. Radiologic Technology students must complete at least one course in two of the four competency areas following consultation with the option advisor. Units required: 6-7.

GENERAL REQUIREMENTS FOR ALL MASTER OF SCIENCE OR MASTER OF PUBLIC HEALTH DEGREE PROGRAMS
FOR ADMISSION TO CONDITIONAL GRADUATE STATUS IN THE PROGRAM.
1. A bachelor’s degree with a major in Health Science or its equivalent.
2. A cumulative grade point average of 3.0 or above for all undergraduate work.
3. Students not meeting requirements #1 above may be assigned an advised program of prerequisites in the Health Sciences. Under certain circumstances, students not meeting requirement on #2 above may be assigned a qualifying program. Specific information concerning prerequisites or qualifying programs may be obtained through consultation with a program graduate advisor.
4. Students must provide evidence of satisfactory completion of the verbal and/or quantitative and/or analytical sections of the Graduate Record Examination (GRE). Students sponsored by the World Health Organization or the Agency for International Development may substitute TOEFL scores for the GRE. The Graduate Record Examination may be waived with approval for those students who have a minimum of 3.00 grade point average overall and in the major, or 3.2 GPA in the last 60 units of undergraduate work, or who already have an advanced graduate degree from an accredited school.
ADVANCEMENT FROM CONDITIONAL TO CLASSIFIED STATUS

Students admitted as conditionally classified must complete all qualifying coursework, GRE and/or UDWPT prior to moving from conditional to fully classified status.

In addition:

- A GPA of 3.0 or better must be achieved in qualifying coursework.
- No more than 12 units of work taken prior to attaining fully classified status will be applied to the Master’s program.
- Students completing qualifying coursework must meet with their faculty advisor to complete the paperwork to advance from conditional to classified status.

GENERAL EDUCATION COURSES OFFERED BY THE HEALTH SCIENCES DEPARTMENT

131. HEALTH AND SOCIETY (2)
An analysis of major health problems affecting the life of an individual, the family and community-at-large. Evaluation, planning and implementation of approaches to meeting personal and societal health needs. (Available for General Education, Applied Arts and Sciences.)

170. EMERGENCY HEALTH PROCEDURES (2)
Application of medical self-help principles and procedures to maintain health in emergency situations, with particular emphasis on physiological bases. American Red Cross "Responding to Emergencies" certificate issued upon successful completion of course requirements. (Available for General Education, Applied Arts and Sciences.)

231. WOMEN AND HEALTH (3)
A study of factors affecting health and women in our society. (Available for General Education, Applied Arts and Sciences.)

336. HEALTH ASPECTS OF DRUG USE (3)
Prerequisite: Completion of the Lower Division Writing Requirement. An in-depth analysis of the factors and problems related to the use and misuse of drugs and their effect on the health and welfare of the individual, family, and society. (Available for General Education, Applied Arts and Sciences.)

337. NUTRITION AND HEALTH (3)
Prerequisite: Completion of the Lower Division Writing Requirement. Fundamentals of nutrition emphasizing practices and problems related to consumer and health. Credit not allowed for both HSCI 337 and FES 207. (Available for General Education, Applied Arts and Sciences.)

353. FUNDAMENTALS OF ENVIRONMENTAL HEALTH (3)
Prerequisite: Completion of the Lower Division Writing Requirement. The relationship between chemical, physical, and biological factors in the environment and the health of human populations. This overview course includes such topics as Water and Air Pollution, Hazardous Waste Control, Food borne Illness, Vector Control and Environmentally Induced Disease. Not open to credit for students taking HSCI 356A & B. (Available for General Education, Applied Arts and Sciences.)
ENVIRONMENTAL AND OCCUPATIONAL HEALTH PROGRAM
(In the Department of Health Sciences)
Director: Dennis Kelly

FACULTY: Peter Bellin, Sandra Donohue, Thomas Hatfield, Dennis Kelly, John Schillinger, Owen Seiver.

PROGRAM DESCRIPTION: The B.S. Degree Program in Environmental and Occupational Health (EOHP) is designed to acquaint students with the biological, chemical and physical factors affecting human health and well-being. The EOHP not only provides students with the body of knowledge necessary for professional employment in the fields of environmental and occupational health but also serves as excellent preparation for health professions such as medicine, dentistry, and optometry. In addition, many graduates of the EOHP will pursue advanced academic degrees leading to teaching and research opportunities.

The EOHP stresses the development of a basic science foundation expanded by an applied science core. This core broadly covers the environmental impingements affecting human health and environmental quality. The EOHP is accredited by the California Department of Health Services. This approval facilitates the employment and promotional opportunities for those graduates seeking careers in public health and environmental management. The quality of the EOHP is validated by its full accreditation from the National Environmental Health Science and Protection Accreditation Council. The American Industrial Hygiene Association also recognizes the EOHP for its excellence. The undergraduate option in Industrial Hygiene serves as excellent preparation for health professions such as medicine, dentistry, and optometry. In addition, many graduates of the EOHP will pursue advanced academic degrees leading to teaching and research opportunities.

The EOHP is accredited by the California Department of Health Services. This approval facilitates the employment and promotional opportunities for those graduates seeking careers in public health and environmental management. The quality of the EOHP is validated by its full accreditation from the National Environmental Health Science and Protection Accreditation Council. The American Industrial Hygiene Association also recognizes the EOHP for its excellence. The undergraduate option in Industrial Hygiene is accredited by the Accreditation Board for Engineering and Technology.

LOWER DIVISION REQUIRED COURSES (40-46 UNITS)
Choose one of these two sets of courses: (8)

- BIO 101 Introductory Biology .................................4
- BIO 281 Human Physiology ................................3
- BIO 282 Human Physiology Lab ........................1

or

- BIO 106/106L Biological Principles I ....................4
- BIO 107/107L Biological Principles II ..................4
- HSCI 132 History of Preventive Medicine ..............3
- PHY 100A/L General Physics I and Lab .................4
- PHY 100B/L General Physics II and Lab ...............4

Choose one of the following: (5)

- MATH 105 Pre-Calculus .......................................5
or
- MATH 106 Principles of Mathematics ...................5

Choose one of the following: (4)

- BIO 215 Introductory Microbiology .......................4
- HSCI 455/L Microbiological Hazards in Environmental Health + Lab ..........3/1

Choose one of these two sets: (8-10)

and

- CHEM 101/L General Chemistry I .........................4/1
- CHEM 102/L General Chemistry II .......................4/1
- CHEM 103 Introductory Chemistry I ....................4
- CHEM 104 Introductory Chemistry II ....................4
- CHEM 235 Introductory Organic Chemistry ..........4
- CHEM 333 Principles of Organic Chemistry I ........4

Choose one of the following: (8)

- CHEM 101/L General Chemistry I .........................4/1
- CHEM 102/L General Chemistry II .......................4/1
- CHEM 103 Introductory Chemistry I ....................4
- CHEM 104 Introductory Chemistry II ....................4

TOTAL UNITS REQUIRED FOR DEGREE: 141-144

OPTION: INDUSTRIAL HYGIENE (16)
Graduates with a B.S. in Environmental and Occupational Health with the Industrial Hygiene Option are prepared for entry level work in positions such as industrial hygiene, hazardous waste management, environmental compliance and a variety of similar positions.

REQUIRED COURSES

Identical to the Environmental and Occupational Health list, plus the following:

- HSCI 466B/BL Evaluating the Occupational Environment and Lab ..........3/1
- HSCI 466C Controlling the Occupational Environment .................3
- HSCI 467 Radiological Health ....................3
- HSCI 468 Air Pollution & Health .......................3
- HSCI 469 Environmental Risk Analysis .................3

TOTAL UNITS, REQUIREMENTS + OPTION: 80-86
MINOR IN ENVIRONMENTAL AND OCCUPATIONAL HEALTH

(Science requirements for courses in minor)........32 Units

BIOL 101 General Biology .........................4
BIOL 281/282 Human Physiology ..................3/1
CHEM 103/104 General Chemistry ................4/4
CHEM 235 Introductory Organic Chemistry ....4
PHYS 100A/AL General Physics I ..................3/1
PHYS 100B/BL General Physics II .................3/1

Choose one of the following:

HSCI 455/455L Microbial Hazards in
Environmental Health .........................4

MINOR REQUIREMENTS (21 UNITS)

HSCI 352 Environmental Health Admin. ..........3
HSCI 356A/B Environmental Health I, II ..........3/3
HSCI 466A Occupational Health ..................3
HSCI 488 Epidemiology ..........................3
HSCI 494B Supervised Field Training .............2

Choose one of the following:

HSCI 390/390L Biostatistics ......................3/1
MATH 140 Introductory Statistics .................4

ELECTIVES (6 UNITS)

With approval of advisor.

TOTAL UNITS, PREREQUISITES AND MINOR: 59

MASTER OF SCIENCE IN ENVIRONMENTAL AND OCCUPATIONAL HEALTH

The Master’s Degree Program in Environmental and Occupational Health provides opportunity for advanced studies of the physical, chemical and biological factors affecting human health and well-being.

The core requirements (1) promote the acquisition of the knowledge and skills necessary to evaluate and conduct research, (2) present new developments and concepts in the EOH field, and (3) introduce advanced techniques applicable to planning and management of EOH programs.

The elective units allow students to develop an area of concentration in industrial hygiene, community environmental health, or administration and management.

Program graduates are employed as administrators and specialists in governmental agencies, private industry and consulting firms. Opportunities for teaching, research and advanced professional programs are numerous. The graduate program in Environmental and Occupational Health is accredited by both the National Environmental Health Science and Protection Accreditation Council and the California Department of Health Services.

The following criteria are used to evaluate prospective candidates for the Master of Science in Environmental and Occupational Health:

1. Overall grade point average and science grade point average.
2. Undergraduate degree in environmental and occupational health or related scientific discipline.
3. Work experience in environmental or occupational health or related discipline.
4. References.

REQUIRED COURSES (18 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 553</td>
<td>Administration of Environmental Health Programs</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 554</td>
<td>Seminar: Environmental Health Problems</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 555</td>
<td>Seminar: Environmental Health Programs, Standards and Controls</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 693A</td>
<td>Supervised Field Training</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 694</td>
<td>Research Design in the Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 696</td>
<td>Seminar: Research Methodology</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVES (8-12 UNITS)

Seminars and other related courses, with advisor approval.

(Note: Each student’s program must include a minimum of 21 units in 500 and 600-level courses. A minimum “B” grade is required for all courses, core and elective.)

CAPSTONE

Choose one of the following:

A. Comprehensive Examination (written, plus optional oral component). As preparation, student registers for HSCI 697 Directed Comparative Studies (3 units; does not count toward program total)

B. Thesis. After proposal is approved, student registers for HSCI 698 Thesis (2-4 units; counts in program total)

TOTAL UNITS REQUIRED FOR THE DEGREE: 30

OPTION: INDUSTRIAL HYGIENE (37 UNITS)

Graduates with the M.S. in Environmental and Occupational Health, Industrial Hygiene Option, are prepared to enter the field of Industrial Hygiene, concentrating on such areas as basic industrial hygiene, occupational safety, hazardous waste management, occupational health training, regulatory compliance, work site inspections, and similar fields.

Core requirements are identical to those of the M.S. in Environmental and Occupational Health. Graduate seminar courses must involve presentations and research in occupational health. The additional course requirements are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 466B/L</td>
<td>Evaluating the Occupational Environment</td>
<td>3/1</td>
</tr>
<tr>
<td>HSCI 466C</td>
<td>Controlling the Occupational Environment</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 465</td>
<td>Occupational Safety</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 459</td>
<td>Hazardous Waste Management</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 467</td>
<td>Radiological Health</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 468</td>
<td>Air Pollution and Health</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 469</td>
<td>Environmental Risk Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Students in this program who select the comprehensive examination Capstone must be tested on subject matter from the core classes—HSCI 356B; HSCI 466A,B,C; and HSCI 465—in addition to any other testing requirements.
HEALTH ADMINISTRATION PROGRAM
(In the Department of Health Sciences)
Director: Janet Reagan

FACULTY: Miriam Cotler, Donald Huftines, Roberta Madison, Brian Malec, Janet Reagan, Louis Rubino, Jerome Seliger

PROGRAM DESCRIPTION: The undergraduate Bachelor of Science degree program provides initial preparation for careers in health services administration, and for those already employed, an opportunity to continue their professional advancement. The undergraduate curriculum also prepares the individual to enter the Master of Science in Health Administration (MSHA) degree program. Further education at the graduate level is often necessary to assume advanced management and policy making roles in health care and related organizations. Graduates of the undergraduate program are in demand and are employed by managed care organizations, hospitals, skilled nursing and other long term care facilities, medical groups, HMOs, health insurance companies, benefits administrators, public health and mental health care organizations, governments, and consulting firms.

The undergraduate Health Administration program is certified by the Association of University Programs in Health Administration.

LOWER DIVISION REQUIRED COURSES (23 UNITS)

ACCT 200 Foundations of Accounting Info ..................4
BIO 101 General Biology .................................................4
BIO 281 Human Physiology...........................................3
HSCI 132 History of Preventive Medicine & Public Health ...............3
HSCI 133 Pathology.........................................................3
HSCI 134 Organization of Community Health Services ..........3
HSCI 135 Biostatistics, & Biostatistics Lab........................3/1
HSCI 136 Medical Care Organization in the United States ..........3
HSCI 211 Health Law ......................................................3
HSCI 212 Health Information Systems............................3
HSCI 213 Utilization of Professional and Allied Health Personnel ....3
HSCI 214 Health Planning ................................................3
HSCI 215 Financial Planning & Reimbursement in Health Care ....3
HSCI 216 Epidemiology: Introduction to Study of Disease ..........3
HSCI 312 Introduction to Health Administration............3
HSCI 313 Health Administration.........................................3
HSCI 314 Organization & Function of Health Delivery ......3
HSCI 315 Community Health Services.........................3
HSCI 316 Health Administration Practice........................3
HSCI 317 Health Administration Decision Making & Control .....3
HSCI 318 Health Administration Practice Organization ....3
HSCI 319 Health Services for the Elderly & the Mentally Ill ....3
HSCI 320 Managed Care.....................................................3
HSCI 321 Hospital Administration......................................3

ELECTIVES (15 UNITS MINIMUM)

Select a minimum of 15 units with prior advisor approval:

HSCI 353 Fundamentals of Environmental Health ........3
HSCI 391 Computer Appl. for Health .........................3
HSCI 417 Budgeting for Health Care Organizations .............3
HSCI 422 Health Services for the Elderly & the Mentally Ill .3
HSCI 518 Managed Care....................................................3
HSCI 519 Hospital Administration.....................................3
HSCI 521 Health Care Ethics.........................................3
PSY 365 Introduction to Gerontology.........................3

A minimum grade of “C-” is required in all upper division required courses.

TOTAL UNITS REQUIRED IN THE MAJOR (77 UNITS)

GENERAL EDUCATION (52 UNITS)

Some classes from the lower division requirements overlap with GE requirements (see General Education section of catalog).

TITLE 5 (6 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 128

MASTER OF SCIENCE IN HEALTH ADMINISTRATION

The graduate degree in Health Administration prepares students for management and leadership roles in health services and related organizations and systems. The curriculum provides for advanced study of issues, problems and strategies for managing the effective and efficient delivery of health care through public, voluntary, and private sector health care organizations including, but not limited to, hospitals, long term care organizations, medical and dental group practices, health maintenance organizations, health insurance and health benefits administrators, and public health agencies.

The following criteria are used for evaluating applicants to the Master of Science in Health Administration (MSHA) degree program:
1. Overall grade point average
2. Graduate Record Examination.
3. Undergraduate degree. Students not having a degree in health administration, if accepted, will be required to take a qualifying program prior to being admitted to classified graduate status.
4. Work experience.
5. Letters of recommendation.
6. Interviews.

The Master of Health Administration program requires a minimum of 45 semester hours of course work beyond the Bachelor degree. A minimum grade of “B” is required for each course; an overall program GPA of 3.0 (B) is required for graduation.

QUALIFYING COURSES

To be determined at advisement.

REQUIRED COURSES (36 UNITS)

HSCI 513 Applied Theory in Health Administration Practice ........3
HSCI 517 Health Economics & National Health .................3
HSCI 521 Health Care Ethics..........................................3
HSCI 523 Seminar in Medical Care Organization .............3
HSCI 613 Managing Change in Health Care Organizations ...3
HSCI 614 Financial Management........................................3
HSCI 615 Information Management for Decision Making & Control ...3
HSCI 616 Quality Assurance for Health Admin...................3
HSCI 618 Strategic Planning in Health Administration ........3
HSCI 619 Third Party Payor Impact on Health Delivery ..........3
HSCI 625 Integrative Seminar in Health Admin. ..............3
HSCI 693A or B Supervised Field Training......................2
and
HSCI 693C Supervised Field Training ......................1

ELECTIVES (9 UNITS MINIMUM)
Select from the following, with advisor approval:
HSCI 422 Health Services for the Elderly and
the Mentally Ill .............................................3
HSCI 518 Managed Care ..................................................3
HSCI 587 Seminar: Epidemiology .....................................3
HSCI 620 Seminar in Hospital Administration ............3
HSCI 694 Research Design ..............................................3
HSCI 621 Facilities Planning and
Materials Management ...........................................3

CAPSTONE
Select one of the following: (units do not count toward
program total)
A) Comprehensive Examination. Student registers for
HSCI 697 Directed Comprehensive Studies (3 units, C/NC)
B) Thesis/Graduate Project (with faculty permission only)
Student registers for HSCI 698 (2 units, C/NC)

TOTAL UNITS REQUIRED FOR DEGREE: 45
SUBJECT MATTER PROGRAM, HEALTH SCIENCE SINGLE SUBJECT CREDENTIAL PROGRAM REQUIREMENTS
(19 UNITS); THESE REPLACE THE ELECTIVES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 131</td>
<td>Health and Society</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 170</td>
<td>Emergency Health Procedures</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 336</td>
<td>Health Aspects of Drug Use</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 337</td>
<td>Nutrition and Health</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 365</td>
<td>Principles of Accident Prevention</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 433</td>
<td>Counseling of Health Problems</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 440</td>
<td>Family Health</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN MAJOR (70 UNITS)

GENERAL EDUCATION (52 UNITS)
Some classes from the lower division requirements apply to GE requirements as well (see General Education Section of catalog).

TITLE 5 (6 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 128

MASTER OF PUBLIC HEALTH IN HEALTH EDUCATION (MPH)
Graduate Coordinator: Dr. Robert Huff

PROGRAM DESCRIPTION:
The graduate program in Health Education provides advanced study for health educators working in a variety of settings such as community health agencies, patient education, consumer health advocacy, training and continuing education, organizational development and team building, schools and other positions within public, private and professional settings. This program is nationally accredited by the Council on Education for Public Health. The program is designed to enable health educators to meet responsibilities for leadership, supervisory, administrative and consultative roles in these health education settings. Applications to the graduate program in Health Education are accepted for the Fall and Spring semesters. Students should send applications and transcripts (two sets) directly to the University Graduate Admissions Office. Additionally, three letters of recommendation should be sent directly to Director, Master of Public Health Program, Department of Health Sciences, C.S.U.N. (recommendation forms are provided).

The following criteria are used for evaluating applicants to the Health Education Graduate Program:
1. Overall Grade Point Average.
2. Graduate Record Examination.
3. Any student who has not had HSCI 390/L or an equivalent will be required to take it before advancing to classified status.
4. Work experience in either health education or a related health field.
5. Three letters of recommendation.

REQUIRED COURSES (30 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 531</td>
<td>Seminar: Health Education Program Planning &amp; Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 533</td>
<td>Advanced Concepts of Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 535</td>
<td>Curriculum Development in Health Ed.</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 538</td>
<td>Seminar: Community Health Action</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 541</td>
<td>Administration, Supervision &amp; Consultation</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 554</td>
<td>Seminar: Environmental Health Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVES (9 UNITS MINIMUM)
With approval of graduate Advisor, students may take 400, 500, and 600 level courses in such areas of study as communications, health administration, environmental and occupational health, or related areas of interest.

CAPSTONE (2-3 UNITS)
Choose one of the following:
A) Comprehensive Examination. Student registers for HSCI 697 Directed Comprehensive Studies (3 units; counts in total program)
B) Thesis, or Graduate Project. Student registers for 698B (2 units)

TOTAL UNITS REQUIRED FOR DEGREE (41-42 UNITS)
NURSING PROGRAM  
(In the Department of Health Sciences)  
Director: Ellen McFadden  
FACULTY: Bonnie Faherty, Martha Highfield, Ellen McFadden  
BACHELOR OF SCIENCE IN NURSING  
The Bachelor of Science in Nursing is designed to enable registered nurses to expand their scope of practice, function both independently and interdependently with other professionals in a wide variety of settings, and assume greater responsibility in meeting present and future health care needs of society. The upper division program at CSU Northridge is designed to articulate with community college programs and provide a baccalaureate completion program for registered nurses with an associate degree in nursing or its equivalent. Students are individuals already licensed by the state to practice as registered nurses who are seeking to advance their nursing knowledge and education. Baccalaureate education in nursing prepares for the practice of professional nursing in multiple sites and with a variety of clientele. The curriculum provides students an opportunity to broaden their base of liberal education through upper division general education and elective courses. In addition, nursing courses will enhance knowledge of human development, assessment skills, theories of and relative to nursing with a focus on the theories, ethics and current issues in the practice of professional nursing, community health, leadership and research. Students are admitted each Fall semester and may attend full or part time. Starting Fall 2000, part-time students will have two possibilities for scheduling the nursing courses in their program:  
1) Six units of nursing courses per semester (2 courses), scheduled as a block on one day per week. Students may take General Education and elective courses as they choose.  
2) PACE (Program for Accelerated College Education) Program: two eight-week time blocks, with two 3-unit nursing courses offered in each block. Classes will meet one evening per week, 6-8 and 8-10 PM, and on alternate Saturdays. In each case, students may take General Education and elective courses as they choose. It is intended that students may switch back and forth between these plans as needed. All courses in both plans combine live and on-line instruction.  
REQUIREMENTS FOR ADMISSION TO THE PROGRAM:  
1. Associate Degree in Nursing, or its equivalent, from a regionally accredited program.  
2. 56 to 70 transferable units; a maximum of 32 units of nursing courses are transferable.  
3. Completion of one lower division course in each of the following: anatomy, physiology, chemistry and microbiology, each with laboratory. A minimum grade of C must be attained in each course.  
4. Current licensure as a Registered Nurse in California.  
5. Completion of separate applications to the University and the nursing program.  
6. Verification of clinical competency (see department advisor to obtain forms).  
7. COMP 100 or equivalent or demonstrated computer competency.  
8. Personal Interview  
LOW E REQUIREMENTS FOR MAJOR (65 UNITS)  
ACADEMIC POLICIES  
1. All upper division nursing courses must be completed within five years after taking the first nursing course or students may be required to meet current program requirements.  
2. A minimum grade of C is required in each upper division nursing course. Students receiving a grade of “C-” or below are required to repeat the course and receive a C or better. A course may only be repeated once, with a maximum of 15 units.  
3. Students must pass both components of each of the following courses to successfully meet requirements for both courses: HSCI 307, 307L; HSCI 427, 427L; HSCI 428L.  
4. Students are required to maintain current California Registered Nurse licensure, individual professional liability insurance, and CPR certification while enrolled in nursing courses. It is the student’s responsibility to notify the program director immediately, in writing of any changes in licensure status.  
5. Students are responsible for obtaining any necessary health exams, immunizations, evidence of a TB test, titers, etc. necessary to meet OSHA requirements, and requirements by the University and affiliating clinical agencies. Documentation of the requirements is to be submitted to the designated person, upon request. Before the first clinical course, each student is required to complete a pre-clinical checklist and provide proof of
currency in listed requirements.

6. Prior to and during clinical placements, students are required to demonstrate professional maturity, physical, emotional, ethical, and moral fitness for clinical practice.

7. The faculty reserves the right to make program modifications as necessary to meet current professional standards and accreditation criteria.

8. RN to BSN students may petition for credit by exam in selected courses. (See department advisor for challenge exam information and registration.)

**HEALTH SERVICES CREDENTIAL: SCHOOL NURSE**

This Credential may be issued to the qualified R.N. who holds a baccalaureate degree. A 5th year of study (minimum of 24 units) is required for a Professional (Ryan) School Nurse Credential. Please note that a minimum of 12 units of course work in residency is required (Regular Session, Extension, Concurrent Enrollment or Summer Session). Refer to Catalog, Credential Programs (Health Services Credential Authorizing Services as a School Nurse)

**PUBLIC HEALTH NURSE CERTIFICATION**

Section 2818(a) of the Business and Professions Code requires that in order to be employed as a public health nurse or use the term “public health nurse” in California, an individual must possess a valid California Public Health Nurse Certificate. The CSUN Nursing Program curriculum is approved by the California Board of Registered Nursing to prepare eligible applicants for certification in public health nursing in California.

**Eligibility Requirements:**

A. Evidence of a permanent California RN license that is current, clear, and active. (A temporary license or interim license is not acceptable.)

B. Possession of a baccalaureate degree meeting the following requirements:

1. Official transcripts from a school accredited by the National League of Nursing (NLN) or the Commission On Collegiate Nursing Education (CCNE), which includes course work in public health nursing. (Graduates of the CSUN RN to BSN Program, see Nursing Advisor.)

2. Official transcripts documenting a baccalaureate degree in a field other than nursing, and completion of required CSUN coursework with a minimum of “C” in each course.

3. Official transcripts from an accredited BSN foreign institution. Foreign transcripts need to be evaluated by an approved international evaluation service.

C. Basic computer skills.

**Required Courses:** (33 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 302a</td>
<td>Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 304</td>
<td>Parent/Child Self Care Agency</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 305</td>
<td>Adult/Aged Self Care Agency</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 306</td>
<td>Supportive/Educative Nursing Systems</td>
<td></td>
</tr>
<tr>
<td>HSCI 307/L</td>
<td>Health Assessment in Self Care Agency &amp; Lab</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSCI 310</td>
<td>Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 390/L</td>
<td>Biostatistics &amp; Lab</td>
<td>3/1</td>
</tr>
<tr>
<td>HSCI 426</td>
<td>Nursing Systems Issues and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 428/L</td>
<td>Community Health Nursing &amp; Lab</td>
<td>3/1</td>
</tr>
<tr>
<td>HSCI 488</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Contact Nursing Advisor for application procedures.
PHYSICAL THERAPY PROGRAM
(In the Department of Health Sciences)
Director: George Wolfe

FACULTY: Jan Adams, Janna Beling, Sheryl Low, Diana Osterhues, Peggy Roller, Beth Simpson, George Wolfe

The Physical Therapy profession contributes to the health needs of society. It focuses primarily on individuals whose impairment is related to the neuromusculoskeletal, pulmonary, integumentary, and cardiovascular systems; on methods of evaluating the functions of these systems; and on the selection and application of appropriate therapeutic procedures to maintain, improve, or restore these functions.

The Physical Therapy program leads to the MPT (Master’s in Physical Therapy) degree and prepares students for licensure as Physical Therapists. Both graduate and undergraduate students are admitted. The program requires three academic years and three summers to complete. Full-time enrollment is necessary, except during the summers, after the first two years. Students accepted without a bachelor’s degree receive the BS in Health Science. At that time, they must apply to and be accepted by the Graduate School. They then receive the MPT at the end of the third year. Students already holding a bachelor’s degree when accepted complete the entire three years, but receive only the MPT. For advancement to candidacy for the MPT all students must maintain a GPA of 3.00 or higher throughout the program. All students must also complete the requirements for the Certificate in Physical Therapy. These units do not apply to either the BS or MPT degrees and are earned during clinical internships and practicums scheduled during the academic year and summers.

TO BE ELIGIBLE FOR LICENSURE, BOTH THE MPT AND CERTIFICATE DEMONSTRATING CLINICAL COMPETENCE MUST BE SUCCESSFULLY COMPLETED.

The Physical Therapy Program is accredited by the Commission on Accreditation in Physical Therapy Education.

ADMISSION REQUIREMENTS:
The Physical Therapy Program has been designated an “impacted” program. Enrollment is competitive and restricted to residents of California. After admission to the University (graduate or undergraduate), students must file a supplemental application (obtained from the Health Sciences Department) for consideration for admission to the program. To be eligible to apply, students must meet the following requirements:

Applicants with a Bachelor’s Degree: 1) Completion of all prerequisite courses (see list below), or approved substitutions, with a grade of C or higher and minimum GPA of 3.00 by the date of application; 2) Passing grade on the Upper Division Writing Exam (unless previously passed at another CSU campus) before beginning the program; 3) If cumulative undergraduate GPA is less than 3.00 the Graduate Record Exam must be taken with a minimum score at the 50th percentile on one of the three portions of the aptitude test.

Applicants without a Bachelors Degree: 1) Completion of all prerequisite courses (see list below), or approved substitutions, with a grade of C or higher and minimum GPA of 3.00 by the date of application; 2) Successful completion of all lower division and upper division general education and Title V requirements before beginning the program; 3) Passing grade on the Upper Division Writing Exam before beginning the program.

The following criteria are reviewed by the selection committee:
1. Academic success as reflected by performance in required prerequisites (GPA 3.0 minimum; a C minus [C-] grade or below is not acceptable), and performance in last 60 semester units of undergraduate coursework (excluding physical education performance classes).
2. Physical, emotional, ethical and moral fitness for the profession that meets the generally acceptable criteria for licensing in California.
3. Letters of recommendation (3).
4. Validation of relevant experience (credit given for a maximum of 600 documented work/volunteer hours.) Two-thirds (400) of validated hours must be in a physical-therapist-supervised setting.
5. Personal interviews may be required.

MEETING THE ABOVE CRITERIA DOES NOT GUARANTEE ACCEPTANCE INTO THE PROFESSIONAL PROGRAM. APPLICANTS WHO DO NOT YET HAVE A BACHELOR’S DEGREE AND ARE NOT ADMITTED SHOULD CONSIDER ENROLLING IN ANOTHER PROGRAM WITHIN THE HEALTH SCIENCES DEPARTMENT OR ANOTHER DEGREE PROGRAM WITHIN THE UNIVERSITY.

The initial filing period to the University for the Fall semester is the previous November. The deadline for submitting the supplementary Application for the P.T. Program is February 15. Applicants are notified by May.

The Program begins in the Fall semester.

PREREQUISITE COURSES (45 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 211</td>
<td>Human Anatomy</td>
<td>2</td>
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<tr>
<td>BIO 212</td>
<td>Lab Studies in Human Anatomy</td>
<td>1</td>
</tr>
<tr>
<td>BIO 281</td>
<td>Human Physiology</td>
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</tr>
<tr>
<td>BIO 282</td>
<td>Lab Studies in Human Physiology</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>Intro. Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>Intro. Chemistry II</td>
<td>4</td>
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<tr>
<td>HSCI 300</td>
<td>Introduction to Physical Therapy</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 301</td>
<td>Applied Anatomy for Physical Therapists/lab</td>
<td>2/2</td>
</tr>
<tr>
<td>HSCI 302</td>
<td>Applied Physiology &amp; Physiological Assessment/Lab</td>
<td>3/1</td>
</tr>
<tr>
<td>HSCI 302A</td>
<td>Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 308</td>
<td>Medical Lectures</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 400</td>
<td>Musculoskeletal &amp; Locomotor Evaluation Procedures/Lab</td>
<td>2/2</td>
</tr>
<tr>
<td>HSCI 401A/AL</td>
<td>Therapeutic Procedures I/Lab</td>
<td>2/1</td>
</tr>
<tr>
<td>HSCI 401B/BL</td>
<td>Therapeutic Procedures II/Lab</td>
<td>1/1</td>
</tr>
<tr>
<td>HSCI 402</td>
<td>Therapeutic Intervention for the Neurological patient/Lab</td>
<td>2/2</td>
</tr>
<tr>
<td>HSCI 403</td>
<td>Prof. Concept &amp; Contemporary Problems in Physical Therapy Services</td>
<td>3</td>
</tr>
</tbody>
</table>

UNDERGRADUATE COURSES (50 UNITS)

(REQUIRED FOLLOWING ACCEPTANCE TO THE PROFESSIONAL PROGRAM FOR BOTH THOSE WITH AND WITHOUT A BACHELOR’S DEGREE)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HSCI 300</td>
<td>Introduction to Physical Therapy</td>
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</tr>
<tr>
<td>HSCI 301/L</td>
<td>Applied Anatomy for Physical Therapists/lab</td>
<td>2/2</td>
</tr>
<tr>
<td>HSCI 302/L</td>
<td>Applied Physiology &amp; Physiological Assessment/Lab</td>
<td>3/1</td>
</tr>
<tr>
<td>HSCI 302A</td>
<td>Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 308</td>
<td>Medical Lectures</td>
<td>2</td>
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<tr>
<td>HSCI 400/L</td>
<td>Musculoskeletal &amp; Locomotor Evaluation Procedures/Lab</td>
<td>2/2</td>
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<tr>
<td>HSCI 401A/AL</td>
<td>Therapeutic Procedures I/Lab</td>
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<td>Therapeutic Procedures II/Lab</td>
<td>1/1</td>
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<tr>
<td>HSCI 402/L</td>
<td>Therapeutic Intervention for the Neurological patient/Lab</td>
<td>2/2</td>
</tr>
<tr>
<td>HSCI 403</td>
<td>Prof. Concept &amp; Contemporary Problems in Physical Therapy Services</td>
<td>3</td>
</tr>
</tbody>
</table>
CERTIFICATE IN PHYSICAL THERAPY REQUIREMENTS

TOTAL UNITS REQUIRED FOR THE MPT DEGREE: 28-32

HSCI 402/L Advanced Electrodiagnostic 
HSCI 401N Neonatology for Physical Therapists ..........3
HSCI 505 Advanced Neuroscience ...............................2
HSCI 408 Educational practices in Physical Therapy………………..2
HSCI 447/L Evaluation & Management of Musculoskeletal Dysfunction/Lab......1/2
HSCI 448/L Cardiopulmonary Assessment & Treatment/Lab……………….1/1

TOTAL UNITS IN MAJOR (95 UNITS)

GENERAL EDUCATION (52 UNITS)

Some classes from the lower division requirements apply to GE requirements as well (see General Education section of catalog). Total GE units needed in addition to prerequisites are 34.

TITLE 5 (6 UNITS)

Select 7-9 units from the following or other graduate courses

ELECTIVES (7-9 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 135

REQUIRED GRADUATE COURSES (19 UNITS)

HSCI 502/L Evaluation and Treatment of the Pediatric Patient/Lab ...............................2/1
HSCI 503/L Therapeutic Intervention for Peripheral Dysfunction/Lab........................................2/2
HSCI 504/L Therapeutic Intervention for Spinal Dysfunction/lab........................................2/2
HSCI 506 Clinical Research.................................................3
HSCI 601G Geriatric Rehabilitation........................................2
HSCI 603/L Prosthetics, Orthotics Adv. Gait Analysis/Lab.................................2/1

TOTAL UNITS REQUIRED FOR THE MPT DEGREE: 28-32

CERTIFICATE IN PHYSICAL THERAPY REQUIREMENTS

(Credits not applicable to either baccalaureate or graduate degree program): HSCI 509A,B,C,D,E; 580A,B,C
(Clerkship, Internship and Practicum)

CSUN affiliates with over 200 hospitals for Internship assignments. The MPT degree and the Certificate are required to be eligible to sit for the state examinations to become licensed.

Students are required to commute to affiliating hospitals for some professional courses and clinical field experience. Some form of transportation is necessary. Students are also required to provide their own uniforms.

RADIOLOGIC TECHNOLOGY

(In the Department of Health Sciences)

Director: Anita Slechta

BACHELOR OF SCIENCE IN HEALTH SCIENCE, SPECIALIZATION IN RADIOLOGIC TECHNOLOGY

PROGRAM DESCRIPTION:

The Radiologic Technology (RT) B.S. degree program prepares practitioners (radiographers) to work with the patient and physician, performing a wide variety of diagnostic imaging procedures within the radiology (x-ray) department. The radiographer must know the principles of anatomy, physiology, pathology, radiographic imaging, radiation safety, the operation of many types of x-ray and computerized equipment, the professional care and handling of patients and the management of a radiology department or division. The baccalaureate program provides a multicompetent practitioner for the diagnostic team. Program competencies include experiences with standard x-ray equipment, angiographic suites, computerized tomography (CT), magnetic resonance (MR), digital vascular imaging devices and mammography.

The Radiologic Technology program consists of two phases, the pre-professional and the professional phase. During the pre-professional portion, the student completes the university general education requirements and the Radiologic Technology prerequisites. Upon completion of the pre-professional phase, the student becomes eligible to apply to the professional Radiologic Technology program, which includes 2600 hours of clinical-internship at an affiliate Medical Center. A limited number of clinical positions at these medical centers are available each year for students accepted to the professional phase. A separate application to the R.T. Program Selection Committee for clinical-internship placement is due each January 31st in the CSUN Health Sciences Department. Tours of clinical facilities must be arranged through the Health Sciences Department prior to interviews.

See the Department for applications and information regarding selection criteria for the professional phase of the program.

PLEASE NOTE THAT MEETING THE PREREQUISITE CRITERIA DOES NOT GUARANTEE ACCEPTANCE TO THE PROFESSIONAL PROGRAM.

LOWER DIVISION REQUIRED COURSES (32 UNITS)

BIO 101/L General Biology & Lab.................................3/1
BIO 211 Human Anatomy............................................2
BIO 212 Lab Studies in Human Anatomy......................1
BIO 281 Human Physiology........................................3
CHEM 105 Principles of Chemistry I............................3
*PSY 150 Principles of Human Behavior......................3
*SOC 150 Introductory Sociology..................................3
*PHY 100A/L General Physics I and Lab........................3/1
*PHY 100B/L General Physics II and Lab........................3/1
*MATH 106 Principles of Mathematics..........................5

CLINICAL COURSES (11 UNITS)

HSCI 280 Radiologic Technology: Clinical Ed. I..................1
HSCI 281 Radiologic Technology: Clinical Ed. II..............1
HSCI 282 Radiologic Technology: Clinical Ed. III..........3
HSCI 283 Radiologic Technology: Clinical Ed. IV..........2
HSCI 284 Radiologic Technology: Clinical Ed. V............4

* Overlap with Lower Division General Education requirements
## Professional Courses (44 Units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 376</td>
<td>Radiologic Physics</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 181</td>
<td>Radiologic Technology I</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 182</td>
<td>Radiologic Technology II</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 285</td>
<td>Radiographic Anatomy &amp; Positioning I</td>
<td>5</td>
</tr>
<tr>
<td>HSCI 286</td>
<td>Radiographic Anatomy &amp; Positioning II</td>
<td>5</td>
</tr>
<tr>
<td>HSCI 302A</td>
<td>Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 380</td>
<td>Cross-sectional Anatomy for Radiographers</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 384</td>
<td>Computers in Diagnostic Imaging</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 480</td>
<td>Computerized Tomography</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 482</td>
<td>Special Radiographic Procedures</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 485</td>
<td>Principles of MRI</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 487</td>
<td>Professional Development for Radiographers</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 499</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 237</td>
<td>Introduction to Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 231</td>
<td>Women and Health</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 380</td>
<td>Radiological Imaging Equipment</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 382</td>
<td>Mammography</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 385</td>
<td>Quality Assurance and Evaluation of Radiology Imaging Equipment</td>
<td>2</td>
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<tr>
<td>HSCI 467</td>
<td>Radiological Health</td>
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<tr>
<td>HSCI 470</td>
<td>Radiologic Technology</td>
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<td>HSCI 480</td>
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<td>HSCI 481</td>
<td>Special Radiographic Procedures</td>
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<td>HSCI 482</td>
<td>Principles of MRI</td>
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<tr>
<td>HSCI 487</td>
<td>Professional Development for Radiographers</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 499</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 280</td>
<td>Radiologic Technology: Clinical Education I</td>
<td>1</td>
</tr>
<tr>
<td>HSCI 292</td>
<td>Radiologic Technology: Clinical Education II</td>
<td>1</td>
</tr>
<tr>
<td>HSCI 293</td>
<td>Radiologic Technology: Clinical Education III</td>
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</tr>
<tr>
<td>HSCI 294</td>
<td>Radiologic Technology: Clinical Education IV</td>
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</table>

## Electives (6-7 Units)

Select from Upper Division Health Science Core Courses and the following: (6-7)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>HSCI 382</td>
<td>Mammography</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 385</td>
<td>Quality Assurance and Evaluation of Radiology Imaging Equipment</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 467</td>
<td>Radiological Health</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 470</td>
<td>Radiologic Technology</td>
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## Total Units in Major: 93-94

<table>
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<tr>
<th>Category</th>
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<tr>
<td>General Education</td>
<td>52</td>
</tr>
<tr>
<td>Title 5 (6 Units)</td>
<td>6</td>
</tr>
<tr>
<td>Units required for degree: 132-133</td>
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<td>(Including GE overlap)</td>
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## Post Baccalaureate Course

<table>
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<tbody>
<tr>
<td>HSCI 497A,B,C</td>
<td>Internship</td>
<td>6</td>
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</tbody>
</table>

## Course List

### Lower Division

#### 131. Health and Society (2)

An analysis of major health problems affecting the life of an individual, the family and community-at-large. Evaluation, planning and implementation of approaches to meeting personal and societal health needs. (Available for General Education, Applied Arts and Sciences.)

#### 132. History of Preventive Medicine and Public Health (3)

The historical development of the disease processes, concepts, and the institutions concerned with public health.
284. RADIOLOGIC TECHNOLOGY:
CLINICAL EDUCATION V (4)
Prerequisite: HSCI 283. Clinical participation in the radiology department of an affiliated hospital. Includes patient positioning, manipulation of exposure factors and advanced film analysis.

285. RADIOGRAPHIC ANATOMY AND POSITIONING I (5)
Prerequisite: Concurrent enrollment in HSCI 280. A comprehensive modular approach to radiographic positioning of the appendicular skeleton, vertebral column, genito-urinary tract, chest and abdomen with emphasis on the associated anatomy, physiology and medical terminology.

286. RADIOGRAPHIC ANATOMY AND POSITIONING II (5)
Prerequisite: HSCI 285. Methodologies and elements of pediatric radiology; in-depth positioning of the skull, facial bones, paranasal sinuses, mastoids, intraoral and extraoral radiography; continuation of advanced technical film analysis.

UPPER DIVISION
300. INTRODUCTION TO PHYSICAL THERAPY (2)
Prerequisite: Acceptance to professional physical therapy program. Investigation and critique of the development and role of physical therapy in health care management. Includes ethics, medical terminology and basic principles of clinical research.

301/301L. APPLIED ANATOMY FOR PHYSICAL THERAPISTS/LAB (2/2)
Prerequisites: BIOL 101, 211 and 212; acceptance to professional physical therapy program. This course promotes an understanding of the structural and functional organization of the human body with an emphasis on the neuromusculoskeletal system. Dissected and prosected cadavers, models, and audiovisual materials are used to identify and study three-dimensional relationships and their application to the principles of human movement. Although the primary emphasis will be on gross anatomy, histology, arthrology and myology will be integrated with structure and function (2 hours lecture, 6 hours lab.)

302/302L. APPLIED PHYSIOLOGY AND PHYSIOLOGICAL ASSESSMENT/LAB (3/1)
Prerequisites: BIOL 101, 281 and 282; acceptance to professional physical therapy program. Principles of circulatory, respiratory, neuromuscular, integumentary and metabolic physiology as applied to physical therapy procedures and therapeutic exercise. Utilization of cadaver dissection, selected demonstrations and assigned readings. (3 hours lecture, 3 hours lab.)

302A. PATHOPHYSIOLOGY (3)
Prerequisites: Admission to Nursing, Physical Therapy or Radiologic Technology Programs. Study of abnormal functioning of neuromusculoskeletal, circulatory, respiratory, digestive, integumentary, metabolic and endocrine systems. Includes causes of disease, inflammatory response, and immune system. (See Department Advisor for credit by challenge examination information.)

303. PROFESSIONAL NURSING (3)
Prerequisites: Admission to nursing program, completion of lower division writing requirement. Focuses on the practice of professional nursing, critical thinking, therapeutic nursing interventions, nursing process, advocacy, humanistic approach to the treatment of human beings, selected biopsychosocial and nursing theories, spirituality, communication, information technology, role change, values, culture, and oral and written communication skills. Regular written assignments and oral presentations will be required.

304. PARENT/CHILD SELF CARE AGENCY (3)
Prerequisites: Admission to Nursing Program, completion of lower division writing requirement, HSCI 302, 303, 307/L, 310, 390/L. Use of self care agency relative to application of developmental change and theories for parents and children. Topics cover self care needs from birth through adolescence; cultural influences. Regular written assignments and oral presentations will be required. (See department advisor for credit by challenge examination information.)

305. ADULT/AGED SELF CARE AGENCY (3)
Prerequisites: Admission to Nursing Program, completion of lower division writing requirement, HSCI 302A, 303, 307, 307L, 310, 390, 390L. Application of development theories of adulthood and the aging process. Selected topics examined with emphasis on self care agency in relation to developmental and situational stressors and nursing systems. Regular written assignments and oral presentations will be required. (See department advisor for credit by challenge examination criteria.)

306. SUPPORTIVE/EDUCATIVE NURSING SYSTEMS (3)
Prerequisites: Admission to Nursing Program, completion of lower division writing requirement, HSCI 302A, 303, 304 (or concurrent), 305 (or concurrent), 307/L, 310, 390/L. Application of nursing knowledge and skills in self care agency with individuals, families, groups, communities and populations. Content includes theories and principles of learning, teaching strategies and methodologies, teaching resources, and evaluation of instruction as applied to the development of nursing systems in the nursing process. Regular written assignments and oral presentations will be required.

307. HEALTH ASSESSMENT IN SELF CARE AGENCY (3)
Prerequisites: Admission to Nursing Program, permission of Nursing advisor, completion of lower division writing requirement, HSCI 302A, 303, 307/L, 310, 390/L. Application of health assessment in self care agency relative to application of development theories of adulthood and the aging process. Selected topics examined with emphasis on self care agency in relation to developmental and situational stressors and nursing systems. Regular written assignments and oral presentations will be required. (See department advisor for credit by challenge examination information.)

307L. HEALTH ASSESSMENT IN SELF CARE AGENCY LAB (1)
Prerequisite: Admission to Nursing Program, permission of Nursing advisor, completion of lower division writing requirement, HSCI 302A, 303, 307/L, 310, 390/L. On-campus supervised lab practice and application of concepts from HSCI 307 in self care agency. (Requires 3 hours per week of laboratory.) A passing grade must be earned in both HSCI 307 and 307L concurrently for credit in both courses.

308. MEDICAL LECTURES (2)
Prerequisites: BIOL 101, 211, 212, 281, 282, HSCI 302, 302L and concurrent enrollment in HSCI 302A. Study of medical-surgical management, diagnostic procedures, and general pharmacology in: neurologic, orthopedic, metabolic, endocrine, fluid and electrolyte, neoplastic, respiratory and immune disorders.
310. PRINCIPLES OF NURSING RESEARCH (3)
Prerequisites: Admission to Nursing Program, completion of lower division writing requirement, HSCI 302A, 303, 307/L, 390/L (or concurrent). Historical philosophical and ethical aspects of nursing research and relationship to nursing science, theory, and practice. Includes principles and methods of research for use in professional role, leadership, and development of nursing systems. Knowledge of the research process is developed and applied to critique of research studies, process of research proposal development and application of research findings to practice. Regular written assignments will be required.

312. INTRODUCTION TO HEALTH ADMINISTRATION (3)
Fundamentals of health administration; role integration between health administrators, health professionals and allied health personnel.

313. HEALTH ADMINISTRATION (3)
Prerequisites: HSCI 312 and HSCI 314. Theory and practice of health administration in various types of health organizations.

314. ORGANIZATION AND FUNCTION OF COMMUNITY HEALTH SERVICES (3) (Formerly 371)
Consideration and comparison of traditional and current programs in official, proprietary and voluntary health agencies.

335. HOLISTIC HEALTH (3)
A critical examination of the holistic health model and selected holistic techniques.

336. HEALTH ASPECTS OF DRUG USE (3)
Prerequisite: Completion of the lower-division writing requirement. An in-depth analysis of the factors and problems related to the use and misuse of drugs and their effect on the health and welfare of the individual, family, and society. (Available for General Education, Applied Arts and Sciences.)

337. NUTRITION AND HEALTH (3)
Prerequisite: Completion of the lower-division writing requirement. Fundamentals of nutrition emphasizing practices and problems related to consumer and health. Credit not allowed for both H.S. 337 and FES 207. (Available for General Education, Applied Arts and Sciences.)

352. ENVIRONMENTAL HEALTH POLICY, LAW AND ADMINISTRATION (3)
An analysis of conceptual models relative to environmental health policy making laws and program administration.

353. GLOBAL PERSPECTIVE OF ENVIRONMENTAL HEALTH (3)
Prerequisite: Completion of the lower-division writing requirement. The relationship between chemical, physical, and biological factors in the environment and the health of human populations. This overview course includes such topics as Water and Air Pollution, Hazardous Waste Control, Foodborne Illness, Vector Control and Environmentally Induced Disease. Not open to credit for students taking HSCI 356A & B. (Available for General Education, Applied Arts and Sciences.)

356A, B. ENVIRONMENTAL HEALTH I, II (3-3)
Prerequisite: Completion of basic science core. At least one course in biology, chemistry, and physics. An in-depth analysis of the physical, chemical, and biological influences on human health and well-being.

365. PRINCIPLES OF ACCIDENT PREVENTION (3)
Epidemiology of accident causation. Methods of prevention and control.

380. CROSS-SECTIONAL ANATOMY FOR RADIOGRAPHERS (2)
Prerequisites: Admission to the Professional RT Program, or permission of the instructor. An introduction to cross-sectional anatomy with the use of advanced imaging techniques, which include Computerized Tomography, Magnetic Resonance Imaging, and Ultrasonography. Includes comparisons of the various modalities in demonstrating certain anatomy.

382. MAMMOGRAPHY (3)
Prerequisites: California State Certificate for Radiologic Technology (CRT) or senior status in the Health Sciences RT Program. A study of breast anatomy, physiology and pathology with an emphasis on breast cancer, risk factors, and detection techniques. Additionally, mammography imaging, instrumentation requirements, and mammographic techniques will be emphasized. Laboratories in quality assurance will be scheduled off site. (offered only through open University).

384. COMPUTERS IN DIAGNOSTIC IMAGING (2)
Prerequisites: HSCI 181, 182, MATH 105 OR 106, PHYS 376 OR permission of the instructor. Computers in Diagnostic Imaging provides a study of state-of-the-art equipment and procedures available to radiology departments. This course will focus on computer software, algorithms and digitization of imaging data. These topics will prepare the student for specific computer applications in advanced imaging course work for MRI, CT and Digital subtraction Angiography. Clinical applications and processes that highlight the course content will be conducted at the Radiology Technology’s affiliate medical centers.

385. QUALITY ASSURANCE AND EVALUATION OF RADIOLOGY IMAGING EQUIPMENT (2)
Prerequisites: HSCI 181; PHYS 376. A study of quality assurance concepts and application for radiology departments. This course includes evaluation of imaging equipment in one of the affiliate medical centers.

390/390L. BIOSTATISTICS (3/1)
Prerequisite: Math 103, 106, or 140. The principles, theory, and practice of statistical analysis in health as they apply to health planning, epidemiological research, and experimental research. 3 hours lecture, 3 hours lab.

391. COMPUTER APPLICATIONS IN HEALTH SCIENCE (3)
The student is introduced to the use of packaged computer programs available for use in the Health Sciences.

400/400L. MUSCULOSKELETAL AND LOCOMOTOR EVALUATION PROCEDURES/LAB (2/2)
Prerequisites: BIOL 101, 211, 212, HSCI 301 and 301L. Methods of in-depth analysis of normal and abnormal human movement and function. Lectures will focus on the understanding of joint structure and function as applied to the human body in health and disease. Laboratory sessions will focus on evaluation procedures for assessing joint mobility, muscle strength and function, limb length and girth and analysis of human movement. Special emphasis on manual muscle testing, goniometry, surface anatomy, palpation and movement analysis. (2 hours lecture, 6 hours lab.)

401A/401AL. THERAPEUTIC PROCEDURES I/LAB (3-CR/NC)
Prerequisite: Acceptance to professional physical therapy program. Physiological and physical basis for the selection and application of therapeutic modalities in the treatment of
musculoskeletal, neuromuscular, and integumentary disorders. Emphasis on the application of thermal agents, hydrotherapy, traction and massage. (2 hours lecture, 3 hours lab.)

401B/401BL. THERAPEUTIC PROCEDURES II/LAB (1/1)
Prerequisites: HSCI 401A, 401AL. Physiologic and physical principles of leadership and direction for those who are interested in supervision and management of health services. Examination of leadership and direction issues in health systems of other nations. Critique of national health insurance equity in service availability and cost are contrasted with health services from a societal perspective. Questions of administration of in-house facility health planning and management of patient care, personnel resources and materials, and the medico-legal implications.

402/402L. THERAPEUTIC INTERVENTION FOR THE NEUROLOGICAL PATIENT/LAB (2/2)
Prerequisites: BIOL 101, 211, 212, 281, 282, HSCI 302A, 308, 400, 400L, 405, 405L, 407. Advanced study of the principles, treatment and intervention skills for the neurologic patient. (2 hours lecture, 6 hours lab.)

403. PROFESSIONAL CONCEPTS & CONTEMPORARY PROBLEMS IN PHYSICAL THERAPY SERVICES (3)
Prerequisite: HSCI 300. Emphasis on the role of the physical therapist in administration and management of patient care, personnel resources and materials, and the medico-legal implications.

404. PROSEMINAR: PHYSICAL DISABILITY AND ILLNESS (3)
Prerequisite: PSY 150. Study of multifaceted adjustment problems of hospitalization, illness, and disability. Emphasis on patient management and intervention.

405/405L. APPLIED NEUROSCIENCE/ LAB (3/1)
Prerequisites: BIOL 101, 211, 212, 281, 282. Study of normal structure and function of the peripheral and central nervous system as a basis for understanding clinical manifestations seen in neurological disorders. (3 hours lecture, 3 hours lab.)

407. NEUROLOGICAL PROCESSES IN DEVELOPMENT AND AGING (2)
Prerequisites: BIOL 101, 211, 212, 281, 282, HSCI 405, 405L: acceptance to the physical therapy program; recommended: HEC 330 or KIN 325. The study of the relationship between principles of neurology and development of motor skills from birth through senescence. Emphasis on perceptual-motor skills. May require observations.

408. EDUCATIONAL PRACTICES IN PHYSICAL THERAPY (2)
Prerequisite: Acceptance to the professional physical therapy program. Application of current concepts of the behavioral sciences to the physical therapy profession. Theory, principles and research applicable to patient/family education, patient compliance and management, staff development, clinical and continuing education. Patient demonstration and some field experience is included.

412. MEDICAL CARE ORGANIZATION IN THE UNITED STATES (3)
Prerequisite: HSCI 314. Problems in the administration of health services from a societal perspective. Questions of equity in service availability and cost are contrasted with administrative issues. Critique of national health insurance and comparison of the recent and proposed United States system with health systems of other nations.

413. LEADERSHIP AND DIRECTION IN THE ADMINISTRATION OF HEALTH SERVICES (3)
Prerequisites: HSCI 312, 313, and 314. Lecture, discussion, demonstrations, case analysis. Introduction to the basic principles of leadership and direction for those who are interested in supervision and management of health programs.

414. HEALTH LAW (3)
Prerequisites: HSCI 312 and 314. An overview of the legal aspects of health care delivery and the health administrator's and health professional's responsibility in the area of patient care, consumer rights, and malpractice.

415. HEALTH INFORMATION SYSTEMS (3)
Prerequisites: HSCI 312, 314. Examines the health information needs of health services agencies and the means of meeting these needs.

416. UTILIZATION OF PROFESSIONAL AND ALLIED HEALTH PERSONNEL (3)
Prerequisites: HSCI 312, 313, 314. Principles, methods, and procedures in the utilization of professional and allied health personnel in health organizations.

417. BUDGETING FOR HEALTH CARE ORGANIZATIONS (3)
Prerequisite: ACCT 220 A/B or ACCT 200. A review of budget planning, financing, delivering, and evaluating health services for the elderly and mentally ill. Administrative structures and public and private delivery systems are compared and critiqued.

423. ALTERNATE HEALTH CARE FINANCING (3)
Prerequisites: HSCI 312, 314, Psych. 310, 365. Problems in planning, financing, delivering, and evaluating health services for the elderly and mentally ill. Administrative structures and public and private delivery systems are compared and critiqued.

424. HEALTH PLANNING (3)
Prerequisites: HSCI 312, 313, 314, 390, 412 and 488. This course emphasizes current approaches to the administration of community-wide health planning agencies and the administration of in-house facility health planning programs.

425. FINANCIAL PLANNING AND REIMBURSEMENT IN HEALTH CARE (3)
Prerequisites: ACCT 220A/B or ACCT 200, HSCI 312, 314. Consideration of the highly specialized application of financial planning principles and reimbursement procedures in health organizations, including government regulations and legal restraints.

426. NURSING SYSTEMS ISSUES AND ETHICS (3)
Prerequisites: Completion of 300-level nursing courses. Deals with issues arising within the community, the health care systems and the profession of nursing which influence self-care agency and the development of nursing systems. Discusses ethical aspects of providing therapeutic self care. Regular written assignments will be required.

427. DYNAMICS OF NURSING LEADERSHIP (3)
Prerequisites: Completion of 300-level nursing courses, completion of Lower Division Writing Requirement, and HSCI 426 (or concurrent). Corequisite: HSCI 427L. Focuses on the function of the professional nurse as self care agent through leadership, administration, and change. Presents theories of group dynamics, leadership, organizations, planned change, power and conflict as they apply in the nursing unit. Regular written assignments will be required. (3 hours lecture per week.) A passing grade must be earned in HSCI 427 and 427L concurrently for credit in both courses.
427L. LEADERSHIP IN NURSING (2)
Prerequisites: Completion of 300-level nursing courses. Corequisite: HSCI 427. Application of self care agency through use of leadership and administration theories and skills in clinical settings. Students synthesize professional nursing roles through individualized learning contract. (6 hours of lab per week.) A passing grade must be earned in both HSCI 427 and 427L concurrently for credit in both courses.

428. COMMUNITY HEALTH NURSING (3)
Prerequisites: Completion of 300-level nursing courses, HSCI 427L. Corequisite: HSCI 428L. Theory and multicultural society. Study of self care agency and therapeutic self care needs of individuals, families, the community, and society. Regular written assignments will be required. (3 hours lecture per week.) A passing grade must be earned in HSCI 428 and 428L concurrently for credit in both courses.

428L. COMMUNITY HEALTH NURSING LAB (2)
Prerequisites: HSCI 427/427L. Corequisite: HSCI428L. Clinical experience in community health agencies under the leadership of nursing faculty. (6 hours lab per week.) A passing grade must be earned in HSCI 428 and 428L concurrently for credit in both courses.

431. HEALTH BEHAVIOR (3)
Prerequisites: HSCI 237, ENGL 306, PSY 150, and SOC 150. Application of current concepts of the behavioral sciences to the health field. Approaches to behavioral changes for healthful living will be stressed.

432. COUNSELING OF HEALTH PROBLEMS (3)
A consideration of concepts and techniques of counseling and guidance as they apply directly to the reduction of specific health problems.

435. HEALTH SCIENCE FOR CHILDREN AND YOUTH (3)
Examination of biological and environmental factors influencing health of children and youth, and means of solving selected health problems, including cardiopulmonary resuscitation. (Available for General Education, Applied Arts and Sciences, credential candidates only.)

436. HEALTH CONCERNS OF ADOLESCENTS (3)
An in-depth study of the health concerns of adolescents, including cardiopulmonary resuscitation. (Available for General Education, Applied Arts and Sciences, credential candidates only.)

437. STRATEGIES FOR MAKING HEALTH DECISIONS (3)
Prerequisite: HSCI 435. Undergraduate seminar. Techniques of developing selected strategies for making health decisions.

438. INTERNATIONAL HEALTH (3)
An analysis of health problems in selected countries. Study of the origin, orientation, and purposes of agencies functioning in this field.

439. COMMUNITY HEALTH ACTION (3)
Basic concepts and techniques of Community Health Action as applied to the initiation and enhancement of community health and health-related services.

440. FAMILY HEALTH (3)
Health aspects of the home and the family, including health and personal qualifications for marriage, prenatal care, pregnancy, infant and maternal mortality, children’s diseases, home accidents, health plans for the family, health problems of the older members of the family.

441. COMMUNITY HEALTH EDUCATION (3)
Prerequisite: HSCI 431. Program planning and evaluation as applied to the practice of education in the community; factors that influence decision-making about health; barriers to changing health behavior; effective utilization of community health agencies as vehicles of change.

442. HEALTH PROBLEMS OF THE DISADVANTAGED (3)
An in-depth study of the interrelationship between the conditions of poverty and wealth. Includes a social-psychological analysis of the interaction between health problems, urban poverty, and minority-group membership.

444. SENIOR SEMINAR IN HEALTH EDUCATION (3)
Prerequisites: HSCI 441 and Senior standing. A study of the methodologies in planning, developing, implementing, and evaluating, programs to solve school and community health problems.

447/447L. EVALUATION AND MANAGEMENT OF MUSCULOSKELETAL DYSFUNCTION/LAB (1/2)
Prerequisites: BIOL 101, 211, 212, 281, 282, HSCI 301, 301L, 302, 302L, 302A, 308, 400, 400L. Selection and application of evaluative procedures for patients with orthopedic disabilities; integration of findings with patient’s complaint, medical history, and occupational and socioeconomic status. Problem solving for identification of significant problems, setting goals and planning treatment. (One hour lecture, 6 hours lab.)

448/448L. CARDIOPULMONARY ASSESSMENT AND TREATMENT/LAB (1/1)
Prerequisites: BIOL 101, 211, 212, 281, 282, HSCI 302, 302L, 302A, 308. Principles of pulmonary and cardiovascular pathophysiology and the physical therapy evaluation and treatment of those disorders. Utilization of selected demonstrations and assigned readings. (1 hour lecture, 3 hours lab.)

453. HEALTH AND PHYSICAL ASPECTS OF HOUSING (3)
Prerequisite: Completion of basic science core. At least one course in biology, chemistry, and physics. Housing appraisal, urban renewal, and land development controls as they affect the health and physical aspects of housing. (Offered Fall Semester.)

454. ENVIRONMENTAL HEALTH LAW (3)
A study of the major provisions of the law which pertains to the environmental health field. Topics include Clean Air Act, Water Pollution Control Act, National Environmental Policy Act, Noise Control Act, Occupational Safety and Health Act, and Toxic Substances Control Act. (Offered Spring Semester.)

455/455L. MICROBIOLOGICAL HAZARDS IN ENVIRONMENTAL HEALTH/LAB (3/1)
Prerequisites: Completion of basic science core. Standard procedures necessary for the collection and basic laboratory examination of water, sewage, milk, foods and other environmental samples, with consideration of the mechanisms of disease transmission and their prevention. (3 hours lecture, three hours lab.)

456. INDUSTRIAL TOXICOLOGY (3)
Prerequisite: Completion of basic science core. A study of the toxic agents in the working environment as they relate to interface between occupational medicine and industrial hygiene. (Offered Spring Semester.)
457. WATER SUPPLY AND SEWAGE DISPOSAL (3)
Prerequisite: Completion of basic science core. Theory and practice of water supply and sewage disposal in the public and private sectors. (Offered Spring Semester.)

458. VECTOR CONTROL (3)
Completion of basic science core. Identification and control of arthropods and other vectors of disease. (Offered Fall Semester.)

459. HAZARDOUS MATERIALS & WASTE MANAGEMENT (3)
Prerequisites: Completion of basic science core. A study of the major aspects of the management of hazardous waste from the time it is generated to the time it is finally disposed.

460. OCCUPATIONAL SAFETY (3)
The study of the way that accidents and incidents occur in the occupational environment. The establishment and maintenance of safety programs are discussed. The approaches to safety used by international, national and local governmental agencies are reviewed as well as those of insurance companies, professional societies, trade associations, and standards and specifications groups. (Offered Fall Semester.)

466A. THE OCCUPATIONAL HEALTH ENVIRONMENT (3)
Prerequisite: Completion of basic science core. Industrial hygiene in the industrial environment with an overview of the type and extent of health problems found in the occupational environment. (Offered Fall Semester.)

466B. EVALUATING THE OCCUPATIONAL ENVIRONMENT (3)
Prerequisite: HSCI 466A. An in-depth study of the causes, measurement, evaluation and control of health problems found in the occupational environment. (Offered Spring Semester.)

466BL. EVALUATING THE OCCUPATIONAL ENVIRONMENT LABORATORY (1)
Prerequisites: HSCI 466A and concurrent enrollment in HSCI 466B. Practical application of the instrumentation necessary for evaluating potential health hazards in the occupational environment laboratory. Three hours of laboratory per week. (Offered Spring Semester.)

466C. CONTROLLING THE OCCUPATIONAL ENVIRONMENT (3)
Prerequisites: HSCI 466A, 466B/L and completion of science core. Overview of design and evaluation of industrial ventilation and noise control systems used to protect the health of workers. Students will be provided the basic skills necessary to review drawings and specifications, troubleshoot and improve existing control systems and establish and conduct testing and maintenance programs.

467. RADIOTHERAPY (3)
Prerequisite: Completion of a basic science core. Comprehensive coverage of ionizing radiation with emphasis on health effects, measurement and protection. (Offered Fall Semester.)

468. AIR POLLUTION AND HEALTH (3)
Prerequisite: Completion of basic science core. An investigation of the relationship between air pollutants and their effects on plants and animals. Emphasis will be given to understanding the health effects in human populations. (Offered Spring Semester.)

469. ENVIRONMENTAL RISK ANALYSIS (3)
Prerequisites: HSCI 356A and 356B, BIOL 101 and 281, 282 or BIOL 106, 106L and 107 and 107L, BIOL 215, CHEM 101, 102 or CHEM 103, 104, CHEM 235 or CHEM 333, 334. This course examines the assessment, communication, and management of environmental risks. “Environmental” concerns will be limited to agents that are: 1) environmental or occupational in origin, and 2) hazardous to human health. “Risk” will refer to the subjective as well as objective measurements of probabilistic events, and will recognize uncertainties with such information.

480. COMPUTED TOMOGRAPHY (2)
Prerequisites: HSCI 181, 182, 384 (old HSCI 486) or permission of the instructor. The principles of Computed Tomography will provide the Radiologic Technology student with a broad understanding of the applied physics and imaging techniques used in clinical Computed Tomography Imaging. The course will overview all five generations of CT imaging. Clinical applications and processes that highlight the course content will be conducted at the Radiologic Technology programs affiliate medical center.

482. SPECIAL RADIOGRAPHIC PROCEDURES (4)
Radiographic examinations involving surgical procedures and specialized equipment. (Offered Fall Semester)

485. PRINCIPLES OF MRI (3)
Prerequisites: MATH105, PHYS100B with Lab, and HSCI 384. The principles of Magnetic Resonance Imaging (MRI) will provide the radiologic technology student with a basic understanding of the applied physics, imaging techniques and imaged anatomy/pathology used in clinical magnetic resonance imaging. Clinical applications and processes that highlight the course content will be conducted at the radiologic technology program’s affiliate medical centers.

487. PROFESSIONAL DEVELOPMENT FOR RADIOGRAPHERS (3)
Prerequisites: HSCI 283 and 482. This seminar will include the discussion and application of instructional interventions used in accredited radiography programs. Discussions will center on current issues and changes in practice as they apply to continuing curriculum development, the national accreditation process and patient education. Additional discussion will center around the professionalization of the radiographer with topics covering professional ethics, professional codes of conduct and management of professionals.

488. EPIDEMIOLOGY: INTRODUCTION TO STUDY OF DISEASE (3)
Prerequisite: Basic science core: One course each from chemistry, biology, and mathematics. Nature, transmission, prevention, and control of disease from a public health approach; historical background, current problems, and trends in disease control.

494. ACADEMIC INTERNSHIP A-F (1-6) (Formerly 497)
Prerequisite: Consent of instructor. A supervised internship in official and/or voluntary health agency. Includes staffing conferences. Credit/No Credit Only.

495AL. PEDIATRIC PHYSICAL THERAPY LAB (1)
Prerequisites: HSCI 405B, 405BL; concurrent enrollment in HSCI 405A. An intensive care, sensory integration. (3 hours lab)
2000-2002

HEALTH SCIENCES 367

495A-Z. CLINICAL ADVANCES IN HEALTH SCIENCES (1-3)
(Formerly 494A-Z)
A review of research development and clinical applications in the various health professions. Course content to be determined (see subtitle in appropriate schedule of classes).

496A-X. EXPERIMENTAL COURSES IN HEALTH SCIENCE (3)
Experimental courses in the Health Sciences with course content to be determined. (See subtitle in appropriate schedule of classes.)

498. FIELD ASSIGNMENT AND REPORTS (1-3)
Consent of the department. Approved experience in voluntary or official health agencies or in administration or coordination of school health programs. A critical analysis of these experiences shall be reported in writing. Credit/No Credit basis for grading. A maximum of six units is permissible for credit in the major.

499. INDEPENDENT STUDY (1-3)

GRADUATE

502/502L. EVALUATION AND MANAGEMENT OF THE PEDIATRIC PATIENT (2/1)
Prerequisite: Classified graduate status in Physical Therapy; HSCI 402, 402L. Evaluation procedures and treatment techniques for various pediatric disabilities, including neuromusculoskeletal dysfunctions, mental retardation and learning disabilities. Emphasis is on developing observation skills to recognize developmental delays in infants and toddlers.

503/503L. THERAPEUTIC INTERVENTION FOR PERIPHERAL DYSFUNCTION (2/2)
Prerequisites: Classified graduate status in Physical Therapy; HSCI 447/447L. Evaluation, methods of therapeutic intervention and clinical decision-making in the management of pathological conditions of the musculoskeletal system. Emphasis on mobilization of the peripheral joints and extremities.

504/504L. THERAPEUTIC INTERVENTION FOR SPINAL DYSFUNCTION (2/2)
Prerequisites: HSCI 503/503L. Evaluation, methods of therapeutic intervention and clinical decision-making in the management of pathological conditions of the musculoskeletal system. Emphasis on spinal mobilization techniques.

505. ADVANCED NEUROSCIENCE (2)
Prerequisite: Classified graduate status in Physical Therapy; HSCI 402,402L. Application of neuromaturation and dynamic systems theories to rehabilitation of individuals with neuromuscular and musculoskeletal dysfunction.

506. CLINICAL RESEARCH IN PHYSICAL THERAPY (3)
Prerequisite: HSCI 390 or equivalent statistics; classified graduate status in Physical Therapy. Study of methods and analysis of research. Initiate development of research proposal. Emphasis on critical evaluation of literature and clinical research for validation of physical therapy practice.

507/507L. CARDIAC REHABILITATION (1/1)
Prerequisite: HSCI 448,448L; classified graduate status in Physical Therapy. Principles and practice of cardiac rehabilitation, including definitive evaluation and program planning for patients following myocardial infarction and/or patients following medical or surgical procedures related to cardiac abnormalities. Utilization of selected demonstrations, and assigned readings. Field trips to clinics or hospitals may be required as part of laboratory section.

508. INTERACTIVE SKILLS FOR THE PHYSICAL THERAPIST (2)
Prerequisites: HSCI 404. Advanced study in patient-therapist interaction, team building, conflict management in the health care profession.

509A/509AL. CLERKSHIP IN PHYSICAL THERAPY (2/2)
Prerequisites: Acceptance to the professional program in physical therapy and/or consent of program advisor (course is part of the Certificate in Physical Therapy; credit not applicable to either baccalaureate or graduate degree programs). Clinical lectures coordinated with practice in clinical evaluation and physical therapy management. Emphasis on various types of exercises, basic procedures in activities of daily living, and normal and abnormal gait biomechanics and evaluation. May be offered during summer session.

509B/509BL. CLERKSHIP IN PHYSICAL THERAPY (2/2)
Prerequisites: Acceptance to the professional program in physical therapy and/or consent of program advisor (course is part of the Certificate in Physical Therapy; credit not applicable to either baccalaureate or graduate degree programs). Clinical lectures coordinated with practice in clinical evaluation and physical therapy management. Emphasis on various neurological evaluation procedures.

509C. CLERKSHIP IN PHYSICAL THERAPY (1)
Prerequisites: Acceptance to the professional program in physical therapy, completion of all first-year courses, and/or consent of advisor (course is part of the Certificate in Physical Therapy; credit not applicable to either baccalaureate or graduate degree programs). Experience in evaluation, program planning, and application of physical therapy procedures in a supervised clinical environment. Approximately 160 clock hours in supervised clinical experience. Summer session. CR/NC Only. An academic internship course.

509D. INTERNSHIP IN PHYSICAL THERAPY (2)
Prerequisites: B.S. degree in Health Science, physical therapy option or completion of all professional program courses; HSCI 509A, B, C and 580A, B, C (credit not applicable to either baccalaureate or graduate degree programs). Experience in evaluation, program planning, and application of physical therapy procedures in a supervised clinical environment. A minimum of 240 clock hours in supervised clinical experience will be reflected upon completion of 509D summer session. CR/NC Only. An academic internship course.

509E. INTERNSHIP TO PHYSICAL THERAPY (3)
Prerequisites: B.S. degree in Health Science, physical therapy option or completion of all professional program courses; HSCI 509A,B,C, and 580 A,B,C (credit not applicable to either baccalaureate or graduate degree programs). Experience in evaluation, program planning, and application of physical therapy procedures in a supervised clinical environment. A minimum of 480 clock hours in supervised clinical experience will be reflected upon completion of 509E. Credit/no credit basis for grading. An academic internship course.

510. INTRODUCTION TO HEALTH SERVICE DELIVERY (3)
(Formerly 522)
Current trends and problems in health service delivery. Examines behavior of provider interest groups, legislative mandate, structure of the service systems, and the evolving health needs of contemporary American society.
511. HEALTH SERVICES ADMINISTRATION THEORY & PRACTICE (3) (Formerly 524)
Prerequisite: Bachelor’s degree and conditionally qualified status for the Master’s degree in Health Administration. An introduction to the basic historical and current theory and practice of the administration of health services organizations. Emphasis on the administrator’s role in a systems approach to assessing and responding proactively to the external forces in the health services delivery system and in the development of the organization’s culture and processes for the provision of quality service.

513. APPLIED THEORY IN HEALTH ADMINISTRATION PRACTICE (3)
Prerequisite: Classified graduate status in Health Administration. Seminar: Community project. Identification of planning, control, and evaluation in health programs.

517. HEALTH ECONOMICS & NATIONAL HEALTH POLICY (3)
Prerequisite: Classified graduate status in Health Administration. Theory of productivity, medical care costs, and capital budgeting; an analysis of national policy and its influence on the U.S. health care system.

518. MANAGED CARE (3)
Prerequisites: HSCI 312, 313, 314, 412 or graduate standing. Consideration of alternate health care delivery systems emphasizing the planning, development, start-up, and operation of health maintenance organizations (H.M.O.’s).

519. HOSPITAL ADMINISTRATION (3) (Formerly 416)
Prerequisites: HSCI 312, 313, 314. An overview of the planning, organization, administration, and evaluation of hospital services and the role of the hospital in the community health system.

521. HEALTH CARE ETHICS (3)
Prerequisites: HSCI 314, 412; PHIL 160 or consent of instructor, or good standing. Framework for analysis of ethical issues in the provision of health care including conceptual foundations for defining biomedical ethical problems; societal, institutional and individual dilemmas in health care delivery and financing; ethical problems at the beginning and at the end of life; administration of institutional ethics committees.

523. SEMINAR IN HEALTH CARE ORGANIZATION (3)
Prerequisite: HSCI 510. This graduate seminar in health care organization examines the structure and interrelationships of health status and health care resources including human resources, facilities, and services. The approach is interdisciplinary; it is designed to provide the student with an understanding of the issues in health care delivery. Emphasis is placed on providers and populations within the clinical, legal, political, and economic systems.

531. SEMINAR: HEALTH EDUCATION PROGRAM PLANNING AND EVALUATION (3)
Prerequisite: Graduate standing as a conditional or fully classified student in the MPH Program. Graduate students not in the Program may enroll with permission of course instructor. An in-depth study of the conceptual/theoretical and practice-based methodologies of community health education program planning and evaluation.

533. ADVANCED CONCEPTS OF HEALTH BEHAVIOR (3)
Prerequisite: HSCI 431. Critical analysis of theoretical issues and current methodologies related to influencing health behavior. Special emphasis will be given to the selection and application of principles to the field setting. (Offered Spring Semester.)

535. CURRICULUM DEVELOPMENT IN HEALTH EDUCATION (3)
Prerequisite: HSCI 435. Critical analysis of curriculum theory and its application in the development of education programs in the health sciences. (Offered Fall Semester.)

537. COMMUNICATIONS IN HEALTH EDUCATION (3)
The analysis, development and utilization of media communication in Health Education.

538. SEMINAR: COMMUNITY HEALTH ACTION (3)
Prerequisite: Classified graduate status in Health Education. A comprehensive analysis of methods and techniques appropriate to Community Health Action. (Offered Spring Semester.)

539. SEMINAR: CURRENT ISSUES IN HEALTH EDUCATION (3)
Prerequisite: HSCI 441. Theory, principles and research applicable to health education. Investigation of problems of social, economic, cultural, and educational origin as they apply to sound health education programs. (Offered Fall Semester.)

541. ADMINISTRATION, SUPERVISION AND CONSULTATION IN HEALTH EDUCATION (3)
Prerequisite: HSCI 539. In-depth exploration of the organization, administration and legal aspects of health education programs, and the principles of supervision and consultation as applied to health education. (Offered Spring Semester.)

545. SEMINAR: MENTAL HEALTH (3)
Prerequisite: HSCI 432. A critical analysis of selected literature concerning mental health education, psychosomatic disease, and addiction.

552. SEMINAR: CONSUMER HEALTH (3)
A critical analysis of literature related to consumer health.

553. ADMINISTRATION OF ENVIRONMENTAL HEALTH PROGRAMS (3)
A comprehensive analysis of environmental and occupational health program planning with emphasis upon program management. (Offered Fall Semester.)

554. SEMINAR: ENVIRONMENTAL HEALTH PROBLEMS (3)
Prerequisite: One course in environmental health. A critical analysis of literature related to current environmental health problems. (Offered Fall Semester.)

555. SEMINAR: ENVIRONMENTAL HEALTH PROGRAMS, STANDARDS AND CONTROLS (3)
Prerequisite: One course in environmental health. A critical analysis of current literature related to environmental health programs and standards. (Offered Spring Semester.)

565. SEMINAR: INDUSTRIAL SAFETY (2)
An in-depth study of the causes, measurement, evaluation and control of safety problems found in the industrial environment.

580A. CLINICAL PRACTICUM I (1)
Prerequisite: Acceptance to the professional program in physical therapy. Directed supervision in selected physical therapy clinical facilities. Seminar on clinical decision-making process and documentation. CR/NC Only. An academic internship course.

580B. CLINICAL PRACTICUM II (1)
Prerequisite: Acceptance to the professional program in physical therapy. Directed supervision in selected physical therapy clinical facilities. Emphasis on orthopedic or cardiopulmonary disabilities. Application of educational
principles to the clinical setting. CR/NC Only. An academic internship course.

580C. CLINICAL PRACTICUM III (1)
Prerequisite: Acceptance to the professional program in physical therapy. Directed supervision in selected physical therapy clinical facilities. Emphasis on neurologial, pediatric or other selected disabilities. Application of administrative principles to development of patient programs. CR/NC Only. An academic internship course.

588. EPIDEMIOLOGY OF INFECTIOUS DISEASE (3)
Prerequisites: HSCI 390, 455, 488. Critical review of infectious diseases, their transmission, control, prevention and significance in the past, present and future.

587. SEMINAR: EPIDEMIOLOGY (3)
Prerequisite: HSCI 488. A critical analysis of literature related to the newer concepts of epidemiology as applied to preventative medicine and public health.

588. EPIDEMIOLOGY OF INFECTIOUS DISEASE (3)
Prerequisites: HSCI 390, 455, 488. Critical review of infectious diseases, their transmission, control, prevention and significance in the past, present and future.

589. EPIDEMIOLOGY OF COMMON CHRONIC DISEASES (3)
Prerequisites: HSCI 588, 592. Selected models to evaluate, analyze and investigate risk factors related to common chronic diseases.

591. QUANTITATIVE DEMOGRAPHY FOR HEALTH SCIENCE (3)

592. ADVANCED BIOSTATISTICS FOR HEALTH SCIENCES (3)
Prerequisites: HSCI 390 and 488. Statistical techniques and sampling methods used to investigate risk factors for disease.

595A-Z. SPECIAL TOPICS (1-3)

601G. GERIATRIC REHABILITATION (2)
Prerequisite: Classified graduate status in Physical Therapy or licensed physical therapist. In-depth investigation of selected topics in geriatric rehabilitation.

601N. NEONATOLOGY FOR PHYSICAL THERAPISTS (3)
Prerequisite: Classified graduate status in Physical Therapy or licensed physical therapist. Neonatal assessment and intervention as applied to physical therapy; postnatal development with reference to muscle tone, range of motion, somatosensory skills, and reflex development. Role of the physical therapist on the neonatal team. May require field observation.

602/602L. ADVANCED ELECTRODIAGNOSTIC AND ELECTROTHERAPEUTIC TECHNIQUES (1/1)
Prerequisites: HSCI 401A, 401AL, 401B, 401BL; classified graduate status in Physical Therapy or licensed physical therapist. Advanced techniques in electrodagnostic procedures including nerve conduction velocity and electromyography. (1 hour lecture, 3 hours lab.)

603/603L. PROSTHETICS, ORTHOTICS AND ADVANCED GAIT ANALYSIS/LAB (2/1)
Prerequisites: Classified graduate status in Physical Therapy or licensed physical therapist. In-depth study of the principles of orthotic and prosthetic management in patients with pathology. Includes a systematic approach to gait analysis in normal and pathological conditions (2 hours lecture, 3 hours lab)
694. RESEARCH DESIGN (4)
   Prerequisite: HSCI 390. A critical consideration of research methodology as applied to the health sciences.

696. SEMINAR: RESEARCH METHODOLOGY (3)
   Analysis of research methodology and interpretation and applied directly to student conducted independent research.

697. DIRECTED COMPREHENSIVE STUDIES (3)
   Credit/No Credit Only.

698. THESIS OR GRADUATE PROJECT (2-4)
   Enrollment requires that a signed proposal be on file in the Health Science office. Credit/No Credit Only.

699. INDEPENDENT STUDY (1-6)
   Prerequisite: At least one course at the graduate level. Investigation of a significant problem in the health field.
HISTORY
Chair: Charles Macune

COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES
Department Office: Sierra Tower 612
Phone: (818) 677-3566
Secretary: Kelly Winkleblack


EMERITUS FACULTY: Vern Bullough, Allen Dirrim, Earle Field, Howard Fleming, Sheldon Harris, Ralph Keller, Gerald Meaker, Darrell Morse, Leonard Pitt, Ronald Schaffer, Marin Pundeff, Thomas Resovich, John Shaeffer, Morris Schonbach, Reba Soffer, Del Stelck

GENERAL ADVISEMENT: Undergraduate Coordinator and all members of the Department.

GRADUATE COORDINATOR: Frank Vatai

UNDERGRADUATE COORDINATOR: Robert Cleve

CREDENTIAL PREPARATION: Thomas Bader, Stephen Bourque, Nancy Fernandez, Charles Macune, Denise Spooner, Frank Vatai, David Wood

PRE-LAW: James Sefton

DEGREES OFFERED: B.A., M.A.

CREDENTIAL INFORMATION: History majors may obtain a Social Science credential by completing an approved program of social science courses. Candidates for the Social Science credential are required to take History 150-151 and History 270-271, or equivalents, History 488 and three additional United States history courses, one course in European history, two courses in Asia, Africa, Latin America, or Middle East, and earn a minimum 3.0 grade point average in both History and Social Science programs. Candidates should see a credential advisor in the department early in their program.

ACADEMIC ADVISEMENT: Students interested in history should consult with the Undergraduate Coordinator prior to declaring the major. All history majors and minors should seek advisement from the Undergraduate Coordinator or a faculty member specializing in their area of interest prior to registration. Credential candidates should select and consult with a credential advisor prior to registration. In addition, the department publishes a booklet, “Advice for Undergraduate History Majors” which is available in the Department Office, or by mail or phone request. During advisement for computer registration, approval is available in the Department Office for all history courses requiring special permission of the instructor.

DEPARTMENT PROGRAMS: Within the general category of social sciences, the history major and minor are humanistic, international, culturally-oriented, liberal arts programs for students desiring a broad background in the ideas and institutions of the world. They emphasize the development of the student’s personal intellectual skills of critical reasoning, writing, and analysis of issues and evidence. In addition to preparing the student for graduate study in history, or for a teaching credential in Social Science, the history major also serves as preparation for a variety of professions, most notably law, government service, library science, historical preservation, and archival administration. The Master’s program constitutes a terminal degree for teachers completing the fifth year requirement for a California credential, as well as preparation for the doctoral degree. In either case, superior achievement in history must be demonstrated for admission to the M.A. program. Prospective applicants should consult informational materials from the department and consult with the graduate coordinator.

The Department of History supports international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Program Study Centers in foreign countries are equivalent to courses in the Department of History and may be used to fulfill some of the requirements for degree options offered by the Department and/or certain general education requirements. Students should consult the International Programs Bulletin available in the Office of International and Exchange Programs, a departmental advisor, or the campus International Programs Advisor for more information.

CAREERS: History provides an excellent liberal arts background which prepares majors for a wide variety of careers ranging from law to business to medicine. It also provides specific training which can lead to positions in such fields as education, historic preservation, archival work, or diplomacy.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE
REQUIRED COURSES (24 UNITS)
Choose one course from each of the following:

a. HIST 150, 303 .................................................................3
b. HIST 151, 302, 304 ..........................................................3
c. HIST 270 .................................................................3
d. HIST 271, 371 .................................................................3
e. HIST 301 (must be taken in the first 75 units of the major's college program) ........................................3
f. HIST 145, 161, 185, 191, 192 ........................................3
g. HIST 497 (Prerequisite 301; a grade of “C” or better is required for graduation) ..................................3
h. HIST 498 .................................................................3

*A grade of C or better in History 497 was approved in the 1992-1993 curriculum cycle.

ELECTIVES (24 UNITS)
Choose eight upper division courses (other than courses chosen from the Core requirement).

a. 15 of these 24 courses must be 400 or 500 level history courses.
b. 3 of these 24 courses must be upper division Asia, Africa, Latin America or the Middle East.
c. 3 of these 24 courses must be upper division U.S. or Canada.
d. 3 of these 24 courses must be upper division Europe.
e. 6 of these 24 courses may be in closely related upper division courses outside department (subject to the approval of an advisor)

TOTAL UNITS IN THE MAJOR (48 UNITS)
GENERAL EDUCATION (52 UNITS)
TITLE 5 (3-6 UNITS)
Some Title 5 courses also apply to the major.

ADDITIONAL UNITS (18-21 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 124
SECOND BACHELOR OF ARTS DEGREE IN HISTORY

The second Bachelor of Arts degree is available to all students. It would be especially attractive to students with a Social Science Credential from CSUN or equivalent preparation from some other institution. These students would already have completed at least 15 units in History. Students admitted to the program must, at their first registration, obtain an evaluation of all earlier work in History and fulfill the University guidelines that apply to those pursuing a second B.A. degree as well as the requirements of the History major. Students who want to obtain a second B.A. in History while simultaneously completing the program leading to a Social Science teaching credential should complete the normal requirements for the B.A. in History, making certain that they have five courses in United States history, at least two of which must be upper division.

HISTORY MINOR

The History minor consists of 24 units in history, no more than 12 of which may be in lower division. The student will work out with an adviser a program to complement a major and fit the student’s particular needs. The student will be able to choose a broad program which will provide a background in several areas of history, or he or she will be able to specialize in U.S., European, African, Asian, Latin American, topical or comparative history.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

REQUIREMENTS FOR ADMISSION

Qualification for admission is determined by University regulations (which include provision for the Upper Division Writing Proficiency Test) and the following Departmental requirements:

1. Baccalaureate degree with a major in history;
2. Cumulative minimum undergraduate grade point average of 3.25;
3. Cumulative minimum grade point average of 3.25 in all history courses;
4. Two letters of recommendation from faculty under whom the applicant worked as an undergraduate or graduate student;
5. A one- or two-page statement of purpose with the application;
6. Acceptance by the History Department.

All qualified students who are accepted into the program are initially admitted into Conditionally Classified Graduate (CCG) status for a maximum of 12 units. Subsequent work requires advancement to Classified Graduate (CG) status.

BACKGROUND IN HISTORY

All applicants with undergraduate or postgraduate degrees or academic work in disciplines other than history must show at least 24 units of upper-division undergraduate work in history, including the Proseminar (History 497) or its counterpart on another campus.

GRADE POINT AVERAGE

If the cumulative undergraduate GPA or the cumulative GPA in all history courses is below 3.25 but is at least 3.00 or above, an applicant may be admitted in a probationary capacity into Conditionally Classified Graduate Status pending successful performance on the Graduate Record Examination, defined as reaching the 65th percentile in the verbal ability category of the Examination, prior to the completion of 12 units of coursework with no grade below “B.” No waiver of this requirement will be allowed. Failure to satisfy this requirement in two successive attempts at the GRE will disallow any further work in the History Graduate Program.

UPPER DIVISION WRITING PROFICIENCY TEST

If the University’s requirement for the Upper Division Writing Proficiency Test has not been met prior to application for the History Graduate Program, the Test must be passed before completing 12 units of coursework.

REQUIREMENTS FOR THE DEGREE

COURSES

A minimum of 30 units of approved graduate work consisting of:

1. Theory and Historiography (History 601), to be taken in the first year;
2. Four graduate seminars consisting of two seminars in each of two areas (or in an area and a special focus) of history chosen in consultation with the graduate coordinator and area advisors (two of the seminars may be taken as Independent Graduate Study, History 699C);
3. Nine units at the 400, 500, or 600 level in history, of which six units may be taken in related disciplines with approval of the area advisors (History 497 and 498 are not acceptable);
4. Six units of Directed Graduate Research (History 696).

Enrollment in a graduate History course requires prior consent of the professor. All courses in a student’s graduate program should be approved in advance by the student’s area advisors and the graduate coordinator.

GRADS

All courses taken to meet any requirements of the program must be completed with a grade of B or higher.

FOREIGN LANGUAGE REQUIREMENT

Before exceeding 18 units in the History Graduate Program, students must demonstrate competency in one foreign language. This requirement will be satisfied by completing, at the second-year level, two years (four semesters or six quarters) of college instruction in a foreign language with no grade below B in any semester. Alternatively, with prior written approval of their faculty advisors, students may, in appropriate circumstances, be allowed to substitute Sociology 364, “Social Statistics,” and 364L “Social Statistics Laboratory” or their equivalents from another campus. Other substitutions (such as meeting the requirement by examination) may be permitted with advisors’ consent in writing. The foreign language requirement may be waived in those instances where the student’s major advisor or advisor and the graduate coordinator decide that a waiver is appropriate.

AREAS OF STUDY

In consultation with the graduate advisement committee, the departmental graduate coordinator, and the student’s faculty advisors, two areas of study are to be chosen from the following Regions and Eras: U.S.-Canada, Latin America, Western Europe, Eastern Europe, Medieval World, Ancient Mediterranean, East Asia, South Asia, Middle East, or Australia.

A special focus may serve as a possible alternative to one of
the foregoing areas. Such a focus would be developed between the student and the faculty advisors and would require the advisor’s approval before it could be accepted as an area of study. The emphasis of a special focus will be on thematic, interdisciplinary, or methodological approaches. Examples of a special focus might include: the women’s movement, slavery and antislavery movements, family history, gender analysis, oral history, colonialism, postmodern culture, archival studies, etc.

COMPREHENSIVE EXAMINATION OPTION
A Comprehensive Examination will be taken in two areas of history selected by the student in consultation with and upon approval by the graduate advisement committee, the graduate coordinator, and area advisors. In the semester in which all coursework is completed, students may register in History 697 for the two written examinations that constitute the Comprehensive Examination.

THESIS OPTION
After 18 units of study, students who secure a sponsor may, with permission of the sponsor, apply to write a thesis in one area of study. If such a contract is approved by the departmental graduate coordinator and the graduate advisement committee, a three-person faculty thesis committee will be established, as required by University regulations, with the sponsor as chair. Before registering in History 698 and commencing work on the thesis, students will be required to pass an oral examination in the thesis area of study. The examination will be administered by the thesis committee. Students in this option must also pass a written Area Proficiency Examination administered by the area advisor in the second area of study. The Thesis Option is not intended for every admitted student. It will be approved only for those students who are judged to be capable of doing original research, are adequately prepared, and have a research problem that can be completed in the allowable time.

COURSE LIST
LOWER DIVISION
145. AFRICAN CIVILIZATION TO MODERN TIMES (3)
(SAME AS PAS 171)
Introduction to the history of the societies of sub-Saharan Africa.

150. WESTERN CIVILIZATION I (3)
The roots of modern civilization in the West as revealed by a study of significant cultures and societies of the past from the earliest times to 1500. (Available for General Education, Comparative Cultural Studies.)

151. WESTERN CIVILIZATION II (3)
Modern civilization in the West since 1500, with emphasis upon the historical development of basic elements of culture and problems of contemporary times. (Available for General Education, Comparative Cultural Studies.)

161. SURVEY OF THE HISTORY OF LATIN AMERICA (3)
A study of certain aspects of the culture and society of Latin America and an analysis of the relation of those aspects to the contemporary scene. (Available for General Education, Comparative Cultural Studies.)

185. CIVILIZATION OF THE MIDDLE EAST (3)
An introduction to the history and culture of the Middle East from the rise of Islam in the 7th century to the present. (Available for General Education, Comparative Cultural Studies.)

191. HISTORY OF EASTERN CIVILIZATION I (3)
A survey of early eastern civilization from antiquity to the coming of the West.

192. HISTORY OF EASTERN CIVILIZATION II (3)
A survey of modern eastern civilization from the coming of the West to the present. (Available for General Education, Comparative Cultural Studies.)

196LS, 296. EXPERIMENTAL COURSES IN HISTORY (3)
Selected topics in History with course content to be determined.

197. WHY HISTORY? (3)
Prerequisite: EPT score of 151 or better, or eligibility for freshman composition. A seminar which introduces the discipline of history as a craft and as one of the liberal arts and a social science. (Available for General Education, Social Sciences.)

210. A HISTORY OF THE JEWISH PEOPLE (3)
A study of the Jewish people from their beginnings in the ancient Near East to the establishment of the modern state of Israel. (Available for General Education, Comparative Cultural Studies.)

270. THE UNITED STATES TO 1865 (3)
A survey of the political and social development of the United States through the Civil War. (Meets Title V requirement in American History, institutions, and ideals.)

271. THE UNITED STATES SINCE 1865 (3)
A survey of the political and social development of the United States since the Civil War. (Meets Title V requirement in American History, institutions, and ideals.)

272. U.S. PRESIDENTIAL CRISSES: FROM WASHINGTON TO WATERGATE (3)
The historical development of the Presidency as an institution, and the reaction of the Presidency to foreign and domestic crises. The late twentieth century Presidency placed in historical perspective. (Available for General Education, Social Sciences.)

UPPER DIVISION
Three units of appropriate lower division history are required for all upper division courses. For further information consult the course instructor.

301. THE HISTORIAN’S CRAFT: READING, RESEARCH AND WRITING HISTORY (3)
Normally open only to History majors. An introduction to the search for and criticism of historical sources, the issues and controversies concerning the interpretation of these sources, “schools” of historical interpretation, organizing the materials and data of research, and the rewards and pitfalls of historical writing.

302. WESTERN CULTURAL HERITAGE, MODERN AGE (3)
Prerequisite: Completion of the lower-division writing requirement. Major records of the modern age that have affected contemporary thought, activity, and institutions. Discussion and critical writing will be supplemented by field trips to museums and performances, and by independent reading and class discussion of both primary and secondary literature. Two hours lecture and two hours field activity. (Available for General Education, Comparative Cultural Studies.)
303. THEMES IN WESTERN CIVILIZATION BEFORE 1500 (3)
Prerequisite: Completion of the lower-division writing requirement. This class is intended to introduce upper division students to the concepts and unresolved problems that have shaped the development of Western Civilization prior to 1500. (Available for General Education, Comparative Cultural Studies.)

304. THEMES IN WESTERN CIVILIZATION AFTER 1500 (3)
Prerequisite: Completion of the lower-division writing requirement. Themes in the institutional, political, socio-economic, and cultural development of Western Civilization since 1500. (Available for General Education, Comparative Cultural Studies.)

305. CULTURAL HISTORY OF THE UNITED STATES (3)
Prerequisite: Completion of the lower-division writing requirement. The American people’s evolving patterns of life in areas including religion, education, art, architecture and music, reading matter, sports, travel, family life, and, in recent times, motion pictures, radio and television. Emphasis is placed on the values and implications revealed by the range and popularity of cultural choices. (Available for General Education, Social Sciences.)

341. MODERN EUROPE SINCE 1815 (3)
Prerequisite: Completion of the lower-division writing requirement. The institutions, culture, and political development of Europe from the Congress of Vienna to the present day. (Credit will not be given for 341 if credit has already been received for either 446 or 447.) (Available for General Education, Social Sciences.)

342. CONTEMPORARY WORLD CIVILIZATION SINCE 1945 (3)
An analysis of the post World War II evolving world civilization which brings together the Euro-centric cultures with the evolving yet still underdeveloped “third world” countries and with the challenged and changing societies of the USSR and of the communist empires.

345. WAR IN HISTORY AND FILM (3)
The history of warfare since the Middle Ages as reflected in classic war films, literary sources, and historical documents. Discusses effects of media on perception of historical events.

347. HISTORY OF THE EUROPEAN COMMUNITIES (3)
Prerequisite: Completion of the lower-division writing requirement. A study of the Western European integration movement since World War II emphasizing the development of conflict-resolving institutions of the European Economic Community.

349. WOMEN IN AMERICAN HISTORY (3)
Prerequisite: Completion of the lower-division writing requirement. The role and status of American women from colonial times to the present. (Available for General Education, Comparative Cultural Studies.)

350. HISTORY OF WOMEN (3)
Prerequisite: Completion of the lower-division writing requirement. The roles and contributions of women from ancient times to the present. Special emphasis will be given to the development of women’s movements from the eighteenth century to the present. (Available for General Education, Social Sciences.)

355. HISTORY OF SLAVERY IN THE UNITED STATES (3)
The origin, nature, and development of slavery in the United States and its effect upon American life, politics, and people.

356. ANTI-SEMITISM IN EUROPE (3) (SAME AS PAS 376)
This course about Anti-Semitism encompasses attitudes, legal formulations, artistic references, and actions toward the Jews in the context of European history and in relationship to the evolution of Jewish identity.

357. HISTORY OF THE HOLOCAUST (3)
An examination of the Jewish experience under Hitler from its historical genesis to its final catastrophe.

359. CANADA (3)
The growth of Canada from the French colonial possession to the modern nation. Treatment both as a part of the British Commonwealth and as one of the Americas.

360. AUSTRALIA, NEW ZEALAND & THE SOUTH PACIFIC (3)
Historical survey from the earliest European explorations to the present day.

369. HISTORY OF AMERICAN INDIANS (3) (FORMERLY 370)
Prerequisite: Completion of the lower division writing requirement. The interaction of White and Indian, as well as Indian and Indian, in the United States from colonial times to the present. (Available for General Education, Comparative Cultural Studies.)

371. PROBLEMS IN AMERICAN HISTORY: 1865 TO PRESENT (3)
Prerequisite: Completion of lower division writing requirement. An exploration of the political and social themes of the history of the United States with emphasis given to examining conflicting ideas about such issues as Progressivism, the New Deal, Workers in an Industrial Age. The Immigrant Experience, the United States as a World Power as well as questions of Gender, Race and Class over time. (Meets Title V requirement in American History, Institutions, and Ideals.)

380. LOS ANGELES: PAST, PRESENT, FUTURE (3)
(Same as POLS and URBS 380)
A multidisciplinary investigation of the Los Angeles urban area – its patterns of population and resources distribution; its historical, economic, social and cultural developments; and policies models designed to cope with its problems and to develop its potential as an ethnically diverse metropolis on the Pacific Rim. Application of social science methodology. Series of faculty and guest speakers, weakly discussion sessions, field trips. (Available for General Education, Social Sciences.)

396. EXPERIMENTAL COURSES IN HISTORY (3)
Selected topics in History with course content to be determined.

COURSES ACCEPTABLE FOR THE MASTER’S DEGREE
(300-level courses in history do not carry graduate credit for a master’s in history.)

401. ORAL HISTORY (3)
A study of the background literature, interviewing techniques and research applications of oral history.

402. WRITING FAMILY HISTORY (3)
Application of historical research techniques to the writing of one’s own family history.

406. THE JEWS IN THE ANCIENT WORLD (3)
The political and social history of the Jewish people from their nomadic beginnings to the destruction of the Second Temple in 70 A.D.
410. THE ANCIENT GREEK WORLD (3)
The Mediterranean world from the rise of Greek civilization
to the conquest of Greece by Rome.

411. THE ROMAN WORLD (3)
The rise and decline of the Roman Republic and the western
Roman Empire.

415. THE BYZANTINE WORLD (3)
Byzantine history and civilization from the founding of
Constantinople in 324 A.D. to the Turkish conquest in 1453.

420. MEDIEVAL EUROPE (3)
Political and institutional history of Europe in the Middle
Ages. (Credit may not be received for both 420 and 320.)

435. AFRICAN HISTORY TO THE 19TH CENTURY (3)
History of the societies of sub-Saharan Africa from the early
iron age to the 19th century.

436. AFRICAN HISTORY SINCE THE 19TH CENTURY (3)
History of the societies of sub-Saharan Africa in the 19th
and 20th centuries.

438. TRADITIONAL INDIA FROM ANTIQUITY TO 1526 (3)
History and culture of the Indian sub-continent from
antiquity to the establishment of the Mughal empire in 1526.

439. MODERN INDIA SINCE 1526 (3)
A study of the evolution of Modern India and Pakistan
emphasizing themes of political and economic
transformation, socio-religious reformation, cultural
dynamism, imperialism, nationalism, and modernism.

440. HISTORY OF WAR IN THE MODERN WORLD (3)
Selected topics analyzing the interactions of warfare with
social and technological changes since the seventeenth
century.

441. HISTORY OF WORLD WAR II (3)
A study of World War II as a watershed experience in
modern history with coverage of the European and Pacific
theatres of war, diplomatic strategies, the impact of the war
on the domestic scene.

444. RENAISSANCE AND REFORMATION (3)
Europe from the Italian Renaissance through the religious
schisms of the sixteenth century.

445. ABSOLUTISM AND REVOLUTION (3)
Europe in the age of colonial expansion and the rise of
revolutionary doctrines, through the fall of Napoleon.

446. NINETEENTH CENTURY EUROPE (3)
Europe from the Congress of Vienna to the opening years of
the twentieth century.

447. TWENTIETH-CENTURY EUROPE (3)
Europe from the onset of World War I to the present day.

449. RUSSIA TO 1905 (3)
The evolution of the Russian state and empire from the
earliest beginnings to the Russo-Japanese War and the
Revolution of 1905.

450. RUSSIA SINCE 1905 (3)
The internal and external development of the Russian
empire and the Soviet Union from the crises of the Russo-
Japanese War to the present.

452. EARLY MODERN BRITAIN (3)
Social, political, economic, and intellectual development
from 1485 to 1815. Basic themes in British history traced to
their culmination in the modern period. Regular written
assignments will be required.

453. MODERN BRITAIN (3)
1815 to the present. Social, political, economic, and
intellectual currents in Victorian England and their
consequences in the twentieth century. Regular written
assignments will be required.

454. HITLER'S GERMANY (3)
A study of the evolution and nature of National Socialism in
Germany. Reviews the ideological foundations and traces
the rise of the Nazi party and the Hitler cult in the Weimar
Republic; the establishment of totalitarian power between
1933-45; the diplomatic patterns and military climax; the
question of national guilt.

457. MODERN GERMANY (3)
German social and political development since the time of
the French Revolution.

459. TWENTIETH CENTURY CANADIAN-AMERICAN RELATIONS (3)
Prerequisite: Successful completion of the lower division
writing requirement. This course studies the relations
between the United States and the Dominion of Canada.
Begins with the crises of the early 20th Century, moves
through the troubled times of the First and Second World
Wars, and concludes with an analysis of the contemporary
social, economic, political, and ecological relations between
these two northern neighbors. Regular written assignments
will be required.

461. LATIN AMERICA: THE COLONIAL PERIOD (3)
Formation of the Spanish and Portuguese empires in Latin
America, tracing the development of society, government,
and culture.

462. NINETEENTH CENTURY LATIN AMERICA (3)
Examination of the struggle for independence and the social,
political and economic development of Latin American
countries from 1810 to 1914.

463. TWENTIETH CENTURY LATIN AMERICA (3)
A study of Latin American history since 1914 with emphasis
upon the impact of modernization upon the traditional
order, efforts toward inter-American understanding, and
greater interaction with the contemporary world.

465. THE CARIBBEAN AREA SINCE 1492 (3)
The changing role of the Caribbean area in the affairs of
Europe, Anglo-America, and Latin America, and the
development of the region as a unique political, social, and
economic community.

466. MEXICO (3)
The internal development of Mexico and how it has affected
hemispheric and world affairs; special attention to Mexico’s
interaction with the United States.

467. ORIGINS AND CONSEQUENCES OF THE
MEXICAN REVOLUTION (3)
The origin, development and consequences of the Mexican
Revolution of 1910 and its domestic and international
repercussions.

468. SOCIAL AND INTELLECTUAL HISTORY OF
LATIN AMERICA (3)
A study of the principal elements and trends in Latin
American Civilization, with emphasis upon society, the
humanities, and philosophy.

470. THE UNITED STATES: THE COLONIAL PERIOD (3)
The origins and development of the thirteen colonies, from
the beginning of settlement to the end of the French and
Indian War.
471. AMERICAN REVOLUTION AND CONSTITUTION, 1763-1800 (3)
The development of an American nation, from the start of revolutionary activity to the end of the Federalist control.

472. THE UNITED STATES: THE ERA OF EXPANSION, 1800-1848 (3)
Growth of the nation from the election of Jefferson through the age of Jackson, to the completion of continental expansion at the end of the Mexican War.

473A. THE UNITED STATES: CIVIL WAR AND RECONSTRUCTION (3)
The social, economic, and political origins of sectionalism; the Civil War and its legacy to later generations.

473B. THE UNITED STATES: THE GILDED AGE, 1877-1896 (3)
The emergence of the captains of industry, the industrial city, immigration tensions, frontier developments and the rise of Populism.

474A. THE UNITED STATES: 1896-1945 (3)
Domestic and international affairs of the United States from the election of 1896 to the end of World War II.

474B. THE UNITED STATES: 1945 TO THE PRESENT (3)
Domestic and international affairs of the United States from the end of World War II to the present.

475. WOMEN IN MODERN UNITED STATES HISTORY: 1920-PRESENT (3)
A study of the roles, status, and contributions of women in the United States from 1920 to the present.

476. ECONOMIC HISTORY OF THE UNITED STATES (3)
History of the economic growth and development of the United States from colonial times to the modern period, emphasizing the causes and nature of the growth and including analysis of its impact on American society.

480. THE AMERICAN FRONTIER TO 1848 (3)
The advancing frontier, its characteristics and contributions to American development, from the Spanish explorations through the Mexican War.

481. THE AMERICAN WEST SINCE 1848 (3)
Settlement of the last American Frontiers, 1848-1890; and the evolution of the modern Far West as a distinctly important region during the 20th century.

482. CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1877 (3)
The Federal Constitution considered from the point of view of its origins and evolution to 1877.

483. CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1877 (3)
The Federal Constitution and the changing nature of the Union from 1877 to the present time.

484. DIPLOMATIC HISTORY OF THE UNITED STATES TO 1914 (3)
An analysis of the United States foreign policies from 1775 to 1914 with emphasis on the origins, nature and results of major policies such as expansion, isolationism, the Monroe Doctrine and the Open Door.

485. DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1914 (3)
An analysis of the United States foreign policies since 1914 with emphasis on the origins, nature and results of America’s involvement in the World Wars, the Cold War and global international affairs since the 1950’s.

485A. THE UNITED STATES AND THE INDOCHINA WARS, 1940-1975 (3)
An analysis of the wars in Vietnam, Laos and Cambodia with emphasis on the United States involvement.

485B. THE UNITED STATES AND LATIN AMERICA SINCE 1898 (3)
An historical analysis of the United States involvement with Latin America since 1898 with emphasis on the origins, nature and results of the United States interacting with Latin American nations in the Caribbean and South America.

486A. HISTORY OF LOS ANGELES (3)
Evolution of the metropolis of Los Angeles from pre-Spanish days to the present.

487. A HISTORY OF THE MEXICAN-AMERICAN (3)
The development of Mexican-Americans from European and Mexican origins down to the present, with emphasis upon the Chicano generation and its impact on the United States.

488. CALIFORNIA (3)
The political, economic, social, and intellectual growth of California from Spanish times to the present, with emphasis on current characteristics and problems.

489. A HISTORY OF THE AFRICAN-AMERICAN PEOPLE IN THE UNITED STATES (3)
An examination of basic themes and issues in the history of the African-American people in the United States and the relevance of those themes and issues to the patterns of today.

491A. MODERN CHINA (3)
A survey of political, economic and social history of China from the fall of the Ming dynasty in 1644 to the Republican Revolution of 1911, with special emphasis on early Manchu success, China’s response to the impact of the West, and the Manchu decline.

491B. THE RISE OF COMMUNIST CHINA (3)
An historical analysis of the Chinese Communist movement from its inception to the founding of the People’s Republic of China, with special emphasis on Mao Tse-tung’s early revolutionary thought and strategy.

494S0C. INTERNSHIP PROGRAM (3)

495. PROBLEMS IN THE STUDY OF HISTORY (3)
The role of selection, facts, theories, causation, explanation, science, art, and morality; and the synthetic philosophies of history from Vico to the present.

496A-Y. EXPERIMENTAL COURSES IN HISTORY (3)
Selected topics in History with course content to be determined.

497A-Z. PROSEMINAR (3)
General principles of historical research, with application to specific areas of history and historiography. A grade of “C” or better is required to receive credit for this course. Sections will be offered in the following fields as schedule and staff allow: A– Ancient History; B– Middle Ages; C– Europe to 1815; D– Modern Europe Since 1789; E– English History; F– United States to 1815; G– United States, 1815-1900; H– United States, 1900-Present; I– Latin America; J– Inter-American Relations; K– Asia; L– Africa; M– Special Topics.

498. TUTORIAL IN HISTORY (1-3)
Reading and discussion in a specific field or on a specific topic in a small group. May be repeated: 6 units maximum. A grade of “C” or better is required to receive credit for this course.
499. INDEPENDENT STUDY (1-3)

GRADUATE
Minimum prerequisite: A bachelor’s degree with superior academic performance in history. Undergraduates with exceptional promise may enroll in 500-level courses with permission of the instructor.

502A-J. COLLOQUIA IN HISTORY (3 EACH)
A. The United States to 1877
B. The United States Since 1865
C. Latin America
D. The Ancient World
E. The Medieval World
F. Modern Europe to 1815
G. Modern Europe Since 1789
H. Asia
I. Studies in United States History for Secondary Teachers
J. Studies in World History for Secondary Teachers

577. STUDIES IN THE SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES (3)

581. STUDIES OF THE AMERICAN WEST (3)

588. STUDIES IN CALIFORNIA (3)

590. STUDIES IN ASIA (3)

595. SELECTED PROBLEMS IN HISTORY (3)
Special studies at the graduate level in History.

601. THEORY AND HISTORIOGRAPHY (3)
A. The United States to 1877
B. The United States Since 1865
C. Latin America
D. The Ancient World
E. The Medieval World
F. Modern Europe to 1815
G. Modern Europe Since 1789
H. Asia

This course must be taken in the student’s first year in the graduate program.

602A. ARCHIVAL THEORY & METHODS (3)
A introductory course in the essentials of archival administration. Topics include archival theory, the history of archives in the United States, development of collecting policies, techniques for preserving historic materials, and arrangement and description of collections.

602B. THE ARCHIVAL PROFESSION (3)
Third course in a three-course sequence intended to prepare students for the archival profession. Topic include management of archival programs, automated archival systems, budgeting, space facilities planning, career opportunities, grant writing and fund raising, and historic preservation.

610. SEMINAR IN ANCIENT HISTORY (3)
620. SEMINAR IN MIDDLE AGES (3)
640. SEMINAR IN EARLY MODERN EUROPE TO 1815 (3)
641. SEMINAR IN EUROPEAN HISTORY SINCE 1789 (3)
660. SEMINAR IN LATIN AMERICAN STUDIES (3)
671. SEMINAR IN COLONIAL AMERICAN HISTORY (3)
672. SEMINAR IN EARLY NATIONAL UNITED STATES HISTORY (3)
673. SEMINAR IN THE CIVIL WAR & RECONSTRUCTION (3)
674. SEMINAR IN RECENT UNITED STATES HISTORY (3)

696A-K. DIRECTED INDIVIDUAL STUDY & RESEARCH (1-3)
A. The United States to 1877
B. The United States Since 1865
C. Latin America
D. The Ancient World
E. The Medieval World
F. Modern Europe to 1815
G. Modern Europe Since 1789
H. Asia
I. Old World
J. New World
K. Specified Topics
Upon approval of the area advisor and the graduate coordinator, more than one course may be applied toward the master’s degree.

696P. PRACTICUM IN ARCHIVAL ADMINISTRATION (3)
Prerequisites: History 602A.

697. DIRECTED COMPREHENSIVE STUDIES (3)
In the semester that they complete all their other requirements for the degree, including thirty units of coursework, students may register (only once) in History 697 for the two written examinations which comprise the comprehensive examination.

698. THESIS (3)
Students may enroll in History 698 after they have completed 30 units of coursework, have had their formal graduate program approved, and have passed both their oral examination in the thesis area of study and a written area proficiency examination in their second area.

699. INDEPENDENT GRADUATE STUDY (1-6)
A maximum of 6 units of Independent Graduate Study may substitute for 6 units of seminar classes.
HUMAN SEXUALITY
(Interdisciplinary Minor)
Coordinator: Richard H. MacDonald (Family Environmental Sciences); Richard Smith (Psychology)

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

PROGRAM COMMITTEE: Howard Happ (Religious Studies); Richard MacDonald (Family Environmental Sciences); Roger Moss (Psychology); Richard Smith (Psychology).

ADVISORS: Students embarking on the minor should consult either with the coordinator of the minor or the chair of the program committee.

DEGREE OFFERED: Minor in Human Sexuality.

THE PROGRAM: The interdisciplinary minor in human sexuality is offered by the School of Social and Behavioral Sciences. The minor serves students with a special interest in this area because of its relation to their career plans (in counseling, teaching, scholarly research, etc.) as well as those who wish to take courses in this area as part of their liberal education. The minor also serves professionals who wish to augment present knowledge and skills in the area of human sexuality. Many courses in the program satisfy requirements or may be used as electives in several majors as well as in the Human Sexuality Minor.

Where individual departments have prerequisites to upper division courses, students who have not fulfilled the prerequisites must gain consent of the instructor.

REQUIREMENTS FOR THE MINOR

LOWER DIVISION (6 UNITS)

BIOL 241 Human Pregnancy and Embryology ......................... 3
ANTH, BIOL, HIST, PSY, R S, or SOC 230. Introduction to Human Sexual Behavior .............................................................. 3

UPPER DIVISION

(Note: When and if Experimental courses are offered, the coordinator of the program will consider those appropriate for inclusion in the minor.)

Five of the following (15 Units):

ANTH 308 Women, Sex Roles, and Culture ......................... 3
ENGL 372 Eroticism in Literature ......................................... 3
FES 340 Marriage and Family Relations ................................. 3
SOC 324 Sociology of Sex Roles ......................................... 3
HIST 351 History of Sexual Behavior ...................................... 3
FES 441 Human Sexuality and Sexual Dysfunction ............. 3
PHIL 303 Sexual Ethics ...................................................... 3
PSY 452 Psychology of the Sexual Revolution .................. 3
PSY 453 Proseminar in the Psychological Aspects of Human Sexuality ................................. 3
SOC 456 Proseminar on Sexual Dysfunction ......................... 3
RS 468 Sex Ethics in Religious Thought ................................. 3
SOC 451 Sociological Aspects of Human Sexuality ............. 3
SOC 452 Sociology of Homosexuality ...................................... 3
PSY 498 Practicum in Psychology ................................. 3

or

SOC 498 Field Study ......................................................... 3

or

FES 494 Supervised Field Study ......................................... 3

TOTAL UNITS IN THE MINOR (21 UNITS)
COURSE LIST

Courses in the various departments and programs within the School of Humanities are listed alphabetically elsewhere in this catalog.

390LON. BRITISH LIFE AND CULTURE (3)
Prerequisite: Completion of the lower division writing requirement. An interdisciplinary course that gives students a broad background in the meaning of British culture and civilization. The course examines British cultural traditions and institutions through visits to museums, theatres, galleries, historical sites, etc., and by lectures by British artists and scholars. Students will keep journals and write papers. Required of students participating in the London Semester. (Available for General Education, Humanities.)

494. HUMANITIES INTERN PROGRAM
Prerequisite: Junior or Senior standing with a major in the School of Humanities and permission of the instructor. In consultation with the instructor, students will choose an internship in a business or public service agency. Weekly seminar sessions consisting of discussion of readings on career opportunities for humanities graduates and presentation of papers relating studies in the School of Humanities to internship experiences. This course is offered for Credit/No Credit only.
HUMANITIES PROGRAM
(Interdisciplinary Major and Minor)

COLLEGE OF HUMANITIES
Phone: (818) 677-3441 Fax: (818) 677-4902
ADVISOR: Program Coordinator
COORDINATOR: Donald E. Hall

PROGRAM COMMITTEE: Ben Attias, Speech Communication; Anthony Dawahare, English; Jim Kellenberger, Philosophy; Louise Lewis, Art; Elizabeth Say, Religious Studies; Tom Spencer-Walters, Pan-African Studies; Sandra Stanley, English.

DEGREE OFFERED: B.A.

ACADEMIC ADVISEMENT: Humanities Majors are urged to consult with faculty advisor(s) at least once a year. The Program Coordinator reserves regular office hours each week for this purpose and is also available by appointment. Appointments can be made by telephone (677-3441).

THE PROGRAM

The B.A. program in the humanities offers students the opportunity to study the diverse strands of human thought and culture. In devising their own plan of study, humanities majors, working in close consultation with faculty advisors, can prepare for graduate studies in the humanities, in specific disciplines of the humanities, or in cultural studies, train for a career where a broad humanistic understanding is appropriate, or acquire self-cultivation through interdisciplinary study.

In the first semester of the student’s junior year, she or he will draw up a proposed course of study. This document, prepared in consultation with an advisor and kept on file in the program office, will describe the student’s goals in the program and planned avenues for achieving them. This document will also represent the initial step toward the generation of a thesis proposal, which will be required during the first semester of the senior year. All humanities majors must write an interdisciplinary thesis as part of their course of study, usually in their final semester before graduation.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

LOWER DIVISION REQUIRED COURSES (15 UNITS)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>HUM 101</td>
<td>Forms and Ideas in Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 105/106</td>
<td>Cultural Eras in Humanities</td>
<td>6</td>
</tr>
<tr>
<td>MUS 105</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>ART 112</td>
<td>Survey of Non-Western Arts</td>
<td>3</td>
</tr>
</tbody>
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UPPER DIVISION REQUIRED COURSES (9 UNITS)

<table>
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<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>HUM 391</td>
<td>Junior Seminar in Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 491</td>
<td>Senior Seminar in Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 497</td>
<td>Interdisciplinary Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

UPPER DIVISION ELECTIVES (21 UNITS)

History, Theory, and Methodologies Courses (6 Units)
Choose at least two of the following courses in intellectual history, cultural theory, and critical methodologies (Check your catalog for prerequisites):

<table>
<thead>
<tr>
<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td>ART 315</td>
<td>Perspectives in Art History</td>
<td>3</td>
</tr>
<tr>
<td>CHS 351</td>
<td>Survey of Mexican Philosophical Thought</td>
<td>3</td>
</tr>
</tbody>
</table>

Individual Course of Study (15 Units):

In fulfilling their proposed course of study and in consultation with an advisor, students must complete fifteen upper division units, drawn from at least three of the following departments (at least one of which must be AAS, CHS, or PAS): Art, Asian American Studies, Chicano/a Studies, English, Foreign Languages, History, Jewish Studies, Linguistics, Music, PanAfrican Studies, Philosophy, Religious Studies, RTVF, Speech Communication, Theatre, and Women’s Studies; up to six units of credit may be earned through independent study. HUM 391 and 491 may be repeated once each for credit. Only one upper-division course used in fulfilling any aspect of the major may be double-counted for GE credit.

TOTAL UNITS IN THE HUMANITIES MAJOR (45 UNITS)

GENERAL EDUCATION (46-49 UNITS)

HUM 101, 105, and 106 will constitute 3 units of credit in Section C. In addition, one GE-approved upper division course may constitute another 3 units of overlap.

TITLES 5 (6 UNITS)

ADDITIONAL UNITS (24-27 UNITS)

DEPENDING UPON GE OVERLAP.

Students majoring in Humanities program are encouraged to take a foreign language as part of their college program.

TOTAL UNITS REQUIRED FOR DEGREE: 124.

MINOR IN HUMANITIES

LOWER DIVISION REQUIRED COURSES (9 UNITS)

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>HUM 101</td>
<td>Forms and Ideas in Humanities</td>
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<tr>
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UPPER DIVISION REQUIRED COURSES (6 UNITS)

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<tr>
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</thead>
<tbody>
<tr>
<td>HUM 391</td>
<td>Junior Seminar in Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 491</td>
<td>Seminar in Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

UPPER DIVISION ELECTIVES (9 UNITS)

One intellectual history, theory, and methodologies Course from the list above (3 Units).

Two other courses from the departments on the list above. HUM 391 and 491 may also be repeated once each for credit (6 Units).
TOTAL UNITS IN THE HUMANITIES MINOR (24 UNITS)

COURSE LIST

LOWER DIVISION

101.  FORMS AND IDEAS IN HUMANITIES (3)
Prerequisite: EPT score of 151 or higher or completion of the lower division writing requirement. This introductory course provides instruction in the interdisciplinary analysis and interpretation of meaning in art, music, and literature and in the understanding of philosophical ideas in their own right and as they influence styles and themes in works of art. (Available for General Education, Humanities.)

105.  CULTURAL ERAS IN HUMANITIES I (3)
Prerequisite: EPT score of 151 or higher or completion of the lower division writing requirement. Interdisciplinary study of major eras of humanistic development from the Ancient World to the Fifteenth Century through representative works of visual art, architecture, music, philosophy, religion, and oral and written literature. (Available for General Education, Humanities.)

106.  CULTURAL ERAS IN HUMANITIES II (3)
Prerequisite: EPT score of 151 or higher or completion of the lower division writing requirement. Interdisciplinary study of major eras of humanistic development from the Sixteenth Century to the Twentieth Century through representative works of visual art, architecture, film, music, philosophy, religion, and oral and written literature. Humanities 105 is not a prerequisite for Humanities 106. (Available for General Education, Humanities.)

296.  EXPERIMENTAL COURSES IN HUMANITIES (1-3)
Course content to be determined.

UPPER DIVISION

391.  JUNIOR SEMINAR IN HUMANITIES (3)
Prerequisite: HUM 105 and HUM 106. Intensive interdisciplinary study of an age, movement, problem, or theme, with emphasis on the practices and methodologies of interdisciplinary study. The topic of the seminar varies.

396.  EXPERIMENTAL COURSES IN HUMANITIES (3)
Course content to be determined.

491.  SENIOR SEMINAR IN HUMANITIES (3)
Prerequisite: HUM 391 and at least one course in intellectual history, cultural theory, and critical methodologies. Intensive interdisciplinary study of an age, movement, problem, or theme, with emphasis on the application of cultural theory in interdisciplinary study. The topic of the seminar varies.

496.  EXPERIMENTAL COURSES IN HUMANITIES (3)
Course content to be determined.

497.  HUMANITIES THESIS (3)
Prerequisite: Senior standing and permission of Humanities advisor. The writing of an interdisciplinary thesis, on an approved topic, under the supervision of a member of the faculty. Consult with the Humanities advisor as to form, length, and other requirements.

498.  TUTORIAL IN HUMANITIES (3)
Reading and discussion in a specific field or on a specific topic in a small group. May be repeated for credit. Regular written assignments will be required.

499.  INDEPENDENT STUDY (1-3)
JEWISH STUDIES
Coordinator: Jody Myers
(Interdisciplinary Minor)

COLLEGE OF HUMANITIES
Phone: (818) 677-3007 Fax: (818) 677-3985

ADVISORS: Advisement is available from the Jewish Studies Coordinator or from members of the Program Committee (listed below).

PROGRAM COMMITTEE: Terry Hatkoff, (Sociology); Ellen Mayer (University Counseling); Jody Myers, Coordinator (Religious Studies); Cheryl Spector (English).

DEGREES OFFERED: Minor in Jewish Studies.

THE PROGRAM: The minor in Jewish Studies offers courses in the culture and history of the Jewish people and (1) provides background for advanced study in areas such as English, History, Religious Studies, Sociology, or Jewish Education, and (2) explores for the student the rich heritage of the Jews. The approach is interdisciplinary and examines Jewish literature, art, religious thought, history, and social attitudes and behavior. Many courses in the program satisfy requirements or may be used as electives in several majors as well as in the Jewish Studies Minor. Where individual departments have prerequisites to upper division courses, students who have not fulfilled the prerequisites must gain consent of the instructor. Students interested in a B.A. Special Major should consult the catalog under Special Major.

REQUIRED COURSES (9-10 UNITS)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 200</td>
<td>Introduction to Judaism</td>
<td>3</td>
</tr>
<tr>
<td>JS 300</td>
<td>Humanities in Jewish Society: Ancient and Medieval</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 210</td>
<td>History of the Jewish People</td>
<td>3</td>
</tr>
<tr>
<td>RS 101</td>
<td>The Bible</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 101</td>
<td>Elementary Hebrew I</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 102</td>
<td>Elementary Hebrew II</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 102C</td>
<td>Elementary Hebrew II</td>
<td>3</td>
</tr>
</tbody>
</table>

HEBR 101 is prerequisite to HEBR 102, but students with a background in Hebrew may be admitted to HEBR 102 with consent of the instructor. Students wishing to major in Jewish Studies are encouraged to take Hebrew beyond the elementary level.

MODERN PERIOD (3 UNITS)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 376</td>
<td>Modern Judaic Heritage</td>
<td>3</td>
</tr>
</tbody>
</table>

AMERICAN JEWISH LIFE (3 UNITS)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 371</td>
<td>Issues in Jewish-American Writing</td>
<td>3</td>
</tr>
<tr>
<td>SOC 335</td>
<td>Jewish Identity in the United States</td>
<td>3</td>
</tr>
<tr>
<td>RS 378</td>
<td>American Jewish Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

CHOOSE TWO OF THE FOLLOWING COURSES (6 UNITS)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 356</td>
<td>Anti-Semitism in Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 406</td>
<td>Jews in the Ancient World</td>
<td>3</td>
</tr>
<tr>
<td>JS/WS 330</td>
<td>Women in the Jewish Experience</td>
<td>3</td>
</tr>
<tr>
<td>JS 394</td>
<td>Field Work in the Jewish Community</td>
<td>3</td>
</tr>
<tr>
<td>RS 310</td>
<td>Religion &amp; Literature (Yiddish)</td>
<td>3</td>
</tr>
<tr>
<td>RS 320</td>
<td>The Hebrew Bible (Old Testament)</td>
<td>3</td>
</tr>
<tr>
<td>RS 377</td>
<td>The Holocaust: Religious Responses</td>
<td>3</td>
</tr>
<tr>
<td>RS 375</td>
<td>Classical Judaic Texts</td>
<td>3</td>
</tr>
<tr>
<td>RS 379</td>
<td>Zionism: Religious and Secular</td>
<td>3</td>
</tr>
<tr>
<td>SOC 306</td>
<td>Jewish Family and Social Structure</td>
<td>3</td>
</tr>
</tbody>
</table>

Independent study or another course with prior approval of Coordinator.

TOTAL UNITS IN THE MINOR (21-22 UNITS)
JOURNALISM
Chair: Cynthia Z. Rawitch

COLLEGE OF ARTS, MEDIA, AND COMMUNICATION
Department Office: Faculty Office Building, 324
Phone: (818) 677-3135
Administrative Support Coordinator: Vicki Morton

FACULTY: Scott Berman, Osman Elsayed, Susan Henry, Kim Karllof, Kent Kirkton, Rick Marks, Cynthia Z. Rawitch (Chair), Tom Reilly, Maureen Rubin, Lawrence Schneider.

FACULTY EMERITUS: Samuel N. Feldman, Jerome Jacobs, DeWayne B. Johnson

UNDERGRADUATE ADVISERS: Journalism majors at both the undergraduate and graduate levels are assigned an adviser at the time of entry into the Department. Advisers have regularly scheduled office hours for advisement purposes. Advisement is required of all majors each semester.

DEGREES OFFERED: B.A. and M.A.

The Baccalaureate degree in journalism is designed for those who seek careers in newspaper, wire service, or magazine editorial work, television and radio news, photojournalism or public relations.

The Department also cooperates in an interdisciplinary Communication Studies Option. Requirements for this non-professional degree program combining journalism, radio-TV-film, communication theory are listed under the Department of Communication Studies.

The Master’s degree in mass communication is offered jointly by the Departments of Journalism and Radio-TV-Film.

ACCREDITATION: The Department is accredited by the national Accrediting Council on Education in Journalism and Mass Communications.

DEPARTMENT PROGRAMS: The Department of Journalism is a member of the Association of Schools of Journalism and Mass Communication. Affiliated with the Department of Journalism are news operations of the campus FM radio station (KCSN), the Department magazine (Scene), the University campus newspaper (the Daily Sundial), and Valley View television. Each journalism major is required to complete a minor or a collateral in a field such as English, history, political science or sociology. A foreign language is strongly recommended.

In addition to meeting the core requirements in journalism, students with special interests should take courses from the following areas of emphasis:

Broadcast Journalism: 315; 415; 445; 395B; 2 units electives.

Magazine Journalism: 310; 331; 350; 460; 397B or 398B.

Newspaper Journalism: 331; 370; 397B; 6 units electives.

Photojournalism: Take 310 or 370; 331; 350; 450; 397B or 398B.

Public Relations: take 1 of 3: 310, 315, or 370; 331; 340; 440; take 1 of 3: 395B, 397B or 398B.

General: take 1 of 3: 310, 315 or 370; take 1 of 3: 395B, 397B, or 398B; 8 units electives except 390, 395, 397, 398.

National accrediting standards require a major to take a minimum of 90 units of the 124 required for graduation outside of Journalism/Mass Communication. Of these 90 units, 65 must be in the liberal arts, sciences or humanities. A minimum of 31 units in journalism is required for the major. Transfer students may count nine lower division units toward the 124-unit requirement but only six of those may be applied to the major, the equivalents of JOUR 100 and 110.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

THE PROFESSIONAL PROGRAM

LOWER DIVISION REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 100</td>
<td>Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 110</td>
<td>News Reporting</td>
<td>3</td>
</tr>
</tbody>
</table>

UPPER DIVISION REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 300</td>
<td>Reporting Governmental Agencies</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 330</td>
<td>Editing</td>
<td>2</td>
</tr>
<tr>
<td>JOUR 400</td>
<td>Law of Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 498</td>
<td>Tutorial in Mass Communication</td>
<td>1</td>
</tr>
</tbody>
</table>

Select at least one of the following (no more than 4 units may be counted toward degree requirements):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 395B</td>
<td>Broadcast News Practicum</td>
<td>2</td>
</tr>
<tr>
<td>JOUR 397B</td>
<td>Newspaper Practicum</td>
<td>2</td>
</tr>
<tr>
<td>JOUR 398B</td>
<td>Public Relations Practicum</td>
<td>2</td>
</tr>
</tbody>
</table>

Select at least one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 371</td>
<td>Women and the Media</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 372</td>
<td>Diversity and the Media</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 465</td>
<td>Mass Communication &amp; Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 478</td>
<td>International News Media</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 480</td>
<td>History of the American News Media</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 485</td>
<td>Theory of Mass Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses in Journalism, depending on area of emphasis (see Department Programs) except repeat of Jour. 395AB, 397AB, 398AB, 498 ..................................................11

Upper division courses in a collateral field approved in advance by adviser .................................................15

Non-Journalism/Mass Communication ..................................90

COMMUNICATION STUDIES (NON-PROFESSIONAL) PROGRAM

Details of the interdisciplinary, non-professional communication studies program are listed under the Department of Communication Studies, which grants the degree.

CREDENTIAL INFORMATION:

Standard elementary and secondary teaching credentials can be obtained by completing a double major in a University-approved waiver program, such as English. For details on the Credential program see the Credentials section of this catalog or refer to the Index.

MINOR IN JOURNALISM

LOWER DIVISION REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 100</td>
<td>Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 110</td>
<td>News Reporting</td>
<td>3</td>
</tr>
</tbody>
</table>

UPPER DIVISION REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 300</td>
<td>Reporting Governmental Agencies</td>
<td>3</td>
</tr>
<tr>
<td>or Jour 310</td>
<td>Article Writing</td>
<td>3</td>
</tr>
<tr>
<td>or JOUR 315</td>
<td>Reporting for Broadcast</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 330</td>
<td>Editing</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives in journalism (approved in advance by adviser) ...7
THE GRADUATE PROGRAM
The graduate program in Mass Communication presupposes strong undergraduate preparation or equivalent professional experience in the mass media. The Master’s program calls for more intensive study, allows for development of individual professional skills and interests, focuses on evaluation of media performance and uses analytic and research techniques culminating in a thesis, graduate project or comprehensive written examination. Please see additional information regarding classification standing under Graduate Programs.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE
FOR ADMISSION TO CLASSIFIED GRADUATE STATUS IN THE PROGRAM:

1. A bachelor’s degree: a major or minor in journalism, radio-TV-film, or completion of undergraduate courses assigned by the Graduate Admissions Adviser to complement other majors or professional experience.
2. A 3.0 (B) grade-point average in an undergraduate major and in all journalism or radio-TV-film courses taken. Candidates with outstanding professional records may seek, with substantial justification, an exception to this condition.
3. A 3.0 grade-point average for all undergraduate work and an above-average score on the verbal portion of the Graduate Record Examination.
4. Completion of general requirements for classified graduate status.
5. Presentation of an autobiographical statement or resume containing a review of past educational and professional experience and comments about educational objectives and purposes plus an indication of graduate option preference.

FOR THE DEGREE:
A minimum of 30 units of approved graduate work is required for the degree. University regulations require that at least 18 units of the program shall be 600-level courses. Students applying more than 36 units of course work to their graduate program must take at least 50 percent of their courses in 600-level classes. The 30 minimum units shall be comprised of the following:

Required Seminars (9 Units)
- MC 600 Seminar in Research Methods
- MC 630 Seminar in Analysis of Media
- MC 690 Research Practicum

Select at least two of the following (6 Units):
- MC 610 Seminar in Specialized Reporting
- MC 620 Seminar in Media Criticism
- MC 693A-Z Selected Topics
- MC 694 Media Internship
- MC 699 Independent Study

Required Courses (6 Units)
- JOUR 400 Law of Mass Communication

Plus one of the following:
- JOUR 480 History of the American News Media
- JOUR 585 Theory of Mass Communication

Electives (3-6 Units)
Courses in Journalism or the Department of Radio-Television-Film at the 400-600 level not used to satisfy any of the requirements above, or courses in related departments as approved in advance by the Graduate Program Adviser.
- MC 698 Thesis or Graduate Professional Project
- MC 697 Comprehensive Written Exam

Projects may include professionally oriented studies, video or audio tape documentaries of significance, or publishable works, such as investigative or in-depth articles. A research thesis may probe historical, legal, ethical or practical questions through surveys, library studies, or through original investigation.

or
- MC 697 Comprehensive Written Exam (0)

Written and oral examination in the major field (Mass Communication) and two specified fields selected with the approval of the graduate committee. One of those specialized fields may be outside the Department of Journalism.

COURSE LIST
LOWER DIVISION

100. MASS COMMUNICATION (3)
Issues and problems of mass media: newspapers, magazines, television and radio news, public relations and advertising. The role, rights and responsibilities of the mass media in modern society. Not open to students with credit in RTVF 100. (Available for General Education, Applied Arts and Sciences.)

110. NEWS REPORTING (3)
Prerequisite: Typing proficiency; “C” or better in ENGL 155 or equivalent. Basic news writing, interviewing, speech coverage, news copy preparation. The role of the professional journalist. Access to information. Six hours of classroom and laboratory activity required.

UPPER DIVISION

300. REPORTING GOVERNMENTAL AGENCIES (3)
Prerequisite: “C” or better in JOUR 110 or its equivalent. Covering public news beats, such as police, courts and government. Includes off-campus reporting. Six hours of classroom and laboratory activity required.

310. ARTICLE WRITING (3)
Prerequisite: “C” or better in JOUR 110 or its equivalent. Writing freelance magazine articles and newspaper features.

315. REPORTING FOR BROADCAST (3)
Prerequisite: “C” or better in JOUR 110 or its equivalent. Gathering, reporting, writing, editing and presentation of news for broadcast. Out-of-class assignments, writing stories and editing newscasts for radio and television. Six hours of classroom and laboratory activity required.

330. EDITING (2)
Prerequisite: “C” or better in JOUR 300. Copy and news editing, handling wire service stories, using VDTs, news evaluation and ethics. Four hours of classroom and laboratory activity required.

331. GRAPHICS (2)
Prerequisite: “C” or better in JOUR 300. Newspaper and magazine production and design, using VDTs, headline writing, picture handling and captions, typography. Four hours of classroom and laboratory activity required.

340. PRINCIPLES OF PUBLIC RELATIONS (3)
Prerequisite: “C” or better in JOUR 110 or its equivalent. Survey of public relations. Comparative studies of
organization and function, techniques, public relations problems. The use of public relations in various organizations—educational institutions, government, corporations, financial institutions, public utilities, entertainment, labor. Regular written assignments will be required.

350. PHOTOJOURNALISM (3)
Instruction in taking pictures with 35 mm cameras, film and print processing and print finishing. Picture editing. Students are required to provide their own cameras and supplies. Six hours of classroom and laboratory activity required.

370. REPORTING URBAN LIFE (3)
Prerequisite: “C” or better in JOUR 300. Advanced reporting of contemporary society including racism, poverty, ecology, consumerism, the arts and life styles. Includes off-campus reporting. Six hours of classroom and laboratory activity required.

371. WOMEN AND THE MEDIA (3)
Prerequisite: Completion of the lower-division writing requirement. An analysis of the portrayal of women in the mass media, including newspapers, magazines, television, radio, film and advertising. Women’s roles as media consumers and producers are also examined. Findings are placed within the context of the position of women in modern society. Regular written assignments will be required. (Available for General Education, Comparative Cultural Studies.)

372. DIVERSITY AND THE MEDIA (3)
Prerequisite: Completion of the lower-division writing requirement. Survey of how electronic and print media portray different racial, ethnic and sociopolitical groups. Includes analysis of the specialty press for these groups and their role in the mass media. (Available for General Education, Comparative Cultural Studies.)

390. FREEDOM OF THE PRESS (3)
Prerequisite: Completion of the lower-division writing requirement. The legal rights and privileges of the mass media under the Constitution. Censorship and control of the press. Designed for non-journalism majors. Not available for those with credit in JOUR 400. (Available for General Education, Applied Arts and Sciences.)

393. SPECIAL PROJECTS (3)
Prerequisite: Senior status and approval of project by department chair. Independent work with faculty supervision.

395AB. BROADCAST NEWS PRACTICUM (1-4)
Prerequisite: “C” or better in JOUR 315. Supervised work on KCSN in news and documentary programs. Students work as writers, reporters and editors. Critiques of student work. Three hours of activity per unit per week required.

397AB. NEWSPAPER PRACTICUM (1-4)
Prerequisite: “C” or better in JOUR 330 for editors. Supervised work on the department daily newspaper. Students work as writers, reporters, photographers and editors. Three hours of activity per unit per week required.

398AB. PUBLIC RELATIONS PRACTICUM (1-4)
Prerequisite: “C” or better in JOUR 331 and 340. Supervised work on newsletters, brochures and other internal and external communications. Problems and techniques of planning, writing, editing, designing and producing publications. Three hours of activity per unit per week required.

400. LAW OF MASS COMMUNICATION (3)
First Amendment rights of the media, legal access to information, news gathering, public access to the media, libel, right of privacy, fair trial/free press, obscenity and censorship. Case studies and discussion. Not available to students with credit in JOUR 390.

410. INVESTIGATIVE REPORTING (3)
Prerequisites: “C” or better in JOUR 300 and senior standing. Practice in researching and writing newspaper and magazine series on social, scientific and governmental problems.

415. TELEVISION NEWS (3)
Prerequisite: “C” or better in JOUR 315. Reporting, writing, editing, producing television news and public affairs programs. Discussion and evaluation of organization and policies of television newsrooms. Techniques of directing news programs. Six hours of classroom and laboratory activity required.

435. BROADCAST NEWS DOCUMENTARY (3)
Prerequisite: “C” or better in JOUR 415. Study of documentaries. Development and production of news and public affairs documentaries. Six hours of classroom and laboratory activity required.

440. PUBLIC RELATIONS TECHNIQUES (3)
Prerequisite: “C” or better in JOUR 340. Application of public relations techniques, stressing use of mass media and other communication tools in working situations. Students take responsibility for serving specific clients, on or off campus. Six hours of classroom and laboratory activity required.

445. ADVANCED TV NEWS (3)
Prerequisite: “C” or better in JOUR 415. Reporting, writing, editing, anchoring, producing television newscasts for airing on cable or television. Students broadcast weekly newscasts in professional environments followed by critique and discussion. Six hours of classroom and laboratory activity required.

450. ADVANCED PHOTOJOURNALISM (3)
Prerequisite: “C” or better in JOUR 350 or equivalent. Advanced darkroom and camera techniques. Preparation of photo essays. Problems of color, black and white, infrared, high contrast film. Picture editing in print and electronic media. Six hours of classroom and laboratory activity required.

455. DOCUMENTARY PHOTOJOURNALISM (3)
Prerequisites: JOUR 110 and JOUR 350. A production course which will guide the student to a discovery and use of the principles of investigation and reporting on a subject in depth. Production of photographic images will be supported by a survey of the major journalistic documentary projects in still photography. Six hours of classroom and lab activity required.

460. MAGAZINE JOURNALISM (3)
Prerequisite: “C” or better in JOUR 310, 330. Principles, problems and techniques of magazine editing and design; production of department magazine; nonfiction article writing and research. Six hours of scheduled classroom and laboratory activity required.
465. MASS COMMUNICATION AND POPULAR CULTURE (3)
Analyzing popular culture and its content as present in the
mass media, as well as the possible effects on consumers of
particular popular culture contents.

470. COMPUTER-ASSISTED REPORTING (3)
Prerequisite: “C” or better in JOUR 300. Reporting and
writing news stories using the Internet, World Wide Web,
databases, specialized software and E-mail. Six hours of
classroom and laboratory activity required.

478. INTERNATIONAL NEWS MEDIA (3)
Analysis and discussion of four theories of the press. Study
of flow of international news. Analysis of foreign news
media. Problems of propaganda, governmental control,
language and economic support.

480. HISTORY OF THE AMERICAN NEWS MEDIA (3)
Famous news media enterprises and personalities are
studied, with an emphasis on the link between the press and
the social, technological, military and governmental events
which shaped the nation’s history.

494. INTERNSHIP (1-3)
Prerequisite: “C” or better in JOUR 330. Supervised
employment and field study on newspaper and magazines,
in public relations, or in radio and television news.
Credit/No Credit only.

496. EXPERIMENTAL COURSES IN JOURNALISM (1-3)
Prerequisite: One year of appropriate course work in
journalism. Experimental courses in journalism with course
content to be determined.

498. TUTORIAL IN MASS COMMUNICATION (1)
Prerequisite: “C” or better in JOUR 330 and course work
appropriate to the tutorial subject. Individual, supervised
study in selected areas of the student’s interest.

499. INDEPENDENT STUDY (1-3)

GRADUATE COURSES IN MASS COMMUNICATION
(Offered jointly by the Departments of Journalism and
Radio-TV-Film)

Only courses at the 400-500 or 600 level carry credit toward
the master’s degree in Mass Communication. Admission to
the graduate seminars is restricted to those who have been
granted classified status in the Mass Communication
program.

500. THEORY AND HISTORY OF CINEMA AND ELECTRONIC
MEDIA I (3)
Prerequisite: Graduate status. Survey of the history of
cinema/electronic media and cinema and electronic media
theory beginning with the silent film and radio and
culminating with the classic Hollywood cinema.

501. THEORY AND HISTORY OF CINEMA AND
ELECTRONIC MEDIA II (3)
Prerequisite: MCOM 500. Survey of the history of
cinema/electronic media as well as cinema and electronic media
theory and criticism, beginning with the fifties and
carrying through to the present.

512. SEMINAR IN FILM THEORY (3)
A systematic survey of the “great books” of film theory.
Includes analysis and evaluation of the works of such major
theorists as Eisenstein, Balazs, Dreyer, Grierson, Arneheim,
Kracauer, Bazin, etc. (Offered by the Department of Radio-
TV-Film.)

525. SEMINAR IN SCREENWRITING (3)
Prerequisites: RTVF 225 and 325 or 425. Identification and
analysis of the student writer’s creative strengths and
weaknesses. Format includes exercises and original
screenplay material specifically designed to strengthen
narrative skills. (Offered by the Department of Radio-
TV-Film.)

532. SEMINAR IN ANALYSIS OF MEDIA PERFORMANCE (3)
Prerequisite: MASS COMM 502. Extended application of
research and evaluation techniques as used in mass
communication research to describe the quality of broadcast
and film media performance. (Offered by the Department of
Radio-TV-Film.)

585. THEORY OF MASS COMMUNICATION (3) (Formerly 485)
Prerequisite: Senior or graduate status. Extended analysis of
the theories which inform the study of mass communication.
The course focus is on contemporary theories but is
grounded in a historical understanding of the development
of theory in the field.

595A-I. STUDIES IN MASS COMMUNICATION (3)
Prerequisite: Graduate status. Supervised graduate studies in
Radio-TV-Film Mass Communication. Faculty members will
direct the studies of a small group of students in the
following general areas with exact content to be determined:
A–Advanced Research; B–History; C–Theory; D–Writing;
E–Radio-TV Production; F–Film; G–Educational Broadcasting;
H–Management; I–International Communication. (Offered by
the Department of Radio-TV-Film.)

600. SEMINAR IN RESEARCH METHODS (3)
Prerequisite: Classified graduate status. Scope and methods
of research in mass communication, including review of
literature, statement of research problem, research design,
collection and analysis of data and information, and writing
the research report. (Offered by the Department of
Journalism.)

602. SEMINAR IN RESEARCH METHODS (3)
Prerequisite: Classified graduate status. Scope and methods
of research in mass communication, including review of
literature, statement of research problem, research design,
collection and analysis of data and information, and writing
the research report. (Offered by the Department of Radio-
TV-Film.)

610. SEMINAR IN SPECIALIZED REPORTING (3)
Prerequisites: Classified graduate status, JOUR 110. A
professionally oriented course in the use of reporting and
writing skills and knowledge with a focus on individual
areas of student interest. (Offered by the Department of
Journalism.)

620. SEMINAR IN MEDIA CRITICISM (3)
Prerequisite: Classified graduate status. Analysis of books,
journal articles and other reviews which deal with
contemporary mass communication. (Offered by the
Department of Journalism.)

622. DEPARTMENT COLLOQUIUM
Prerequisite: Graduate status. An intensive study of
contemporary approaches to Mass Communication issues by
Graduate faculty on a rotating basis. (Offered by the
Department of Radio-TV-Film.)

630. SEMINAR IN ANALYSIS OF MEDIA PERFORMANCE (3)
Prerequisite: MASS COMM 600. Extended application of
research and evaluation techniques as used in mass
communication research to describe the quality of news
media performance. (Offered by the Department of Journalism.)

690. RESEARCH PRACTICUM (3)
Prerequisite: MASS COMM 600. Instruction and individualized guidance in the preparation of thesis or project proposals, including introduction, literature review and methodology. (Offered by the Department of Journalism.)

692. RESEARCH PRACTICUM (3)
Prerequisite: MASS COMM 502 or concurrent enrollment. Instruction and individualized guidance in the preparation of thesis or project proposals, including introduction, literature review and methodology. (Offered by the Department of Radio-TV-Film.)

693A-Z. SELECTED TOPICS IN JOURNALISM AND MASS COMM (3)
Prerequisite: Classified status and approval of sponsor. Advanced examination of selected topics in journalism and mass communication with course content to be determined by department faculty.

694. INTERNSHIP (1-6)
Prerequisites: MASS COMM 600 and approval of sponsor.

696. DIRECTED GRADUATE RESEARCH (3)

697. COMPREHENSIVE WRITTEN EXAM (0)
Written and oral examination in the major field (Mass Communication) and two specified fields selected with the approval of the graduate committee. One of those specialized fields may be outside the Department of Journalism.

698. THESIS OR GRADUATE PROJECT (1-6)
Prerequisites: MASS COMM 690 and approval of sponsor.

699. INDEPENDENT STUDY (1-6)
Prerequisites: MASS COMM 600 and approval of sponsor.
KINESIOLOGY
Chair: Barbara Swerkes

COLLEGE OF HEALTH AND HUMAN DEVELOPMENT
Department Office: Kinesiology 250
Phone: (818) 677-3205
Administrative Operations Analyst: Jane Sindayen
Administrative Support Assistant: Gail Hartung
Administrative Support Assistant: Edith Winterhatter

FACULTY: Tami Abourezk, Carolyn Barbian, Don Bethe, Nicolas Brent, Samuel Britten, Steven Loy, Alice McLaine, Debra Patterson, John Ramsey, Jennifer Romack, Paulette Shafranski, Richard Streid, Terry L. Sweeting, Barbara Swerkes (Chair), William Vincent, Tommie Lee White, William Whiting, Benedict Yaspelkis, III

EMERITUS FACULTY: Adran Adams, Muriel Bower, Pat Caldwell, Darrel Guthrie, Merril Hardy, Alva Johanson, Felix Jumonville, George Rich, Earl Wallis, Eleanor Walsh, Sam Winningham, Laurence Young

UNDERGRADUATE ADVISEMENT: Students are required to obtain advisement each semester in order to be cleared for Touch-Tone Registration for the following semester. Additional advisement is available by appointment throughout the semester. Individual advisors are assigned to all majors; it is recommended that during the first semester as a major, each student request assignment to an advisor. This request should be initiated in the department office.

LIBERAL STUDIES AND CHILD DEVELOPMENT ADVISEMENT: Interdisciplinary Students: Tami Abourezk, Terry Sweeting
Credential Coordinator: Debra Patterson

GRADUATE ADVISOR: Graduate Coordinator: Tommie White.
Advisors are assigned in accordance with student's special interest area.

DEGREES OFFERED: B.S. and M.S.

THE MAJOR: The word kinesiology comes from the Greek, kinesis, which means "to move". Kinesiology is the study of the art and science of human movement. At California State University, Northridge, the discipline of Kinesiology is dedicated to the study of human movement as it relates to sport, dance, and exercise.

CAREERS: Kinesiology has many practical applications and leads to a variety of rewarding careers such as teaching physical education or dance, teaching physical education, coaching, serving as a consultant in the commercial health and fitness industry, working in a clinical health setting, athletic training, or working independently as a personal trainer. Many kinesiology majors become involved in scientific research or go on to advanced study in medicine, chiropractic, physical therapy, nursing, exercise physiology, biomechanics, motor learning and behavior, motor programs for special populations, sports psychology or pedagogy. Some graduates become coaches for professional teams or work in business environments dealing with sports management and marketing. Others pursue careers in dance therapy or professional dance, or physical activities for individuals with disabilities.

The current societal interest in wellness and fitness programs and the 1996 Surgeon General's Report on Physical Activity and Health has led both individuals and corporations to stress preventive as well as interventive care. Because kinesiology students understand the role of movement in wellness, they have become important to innovations toward better health.

Graduates of kinesiology programs work with people in all stages of life - with children and with seniors, with the able bodied and those with disabilities, with elite performers and those of ordinary capability.

DEPARTMENT PROGRAMS: Undergraduate students may select one of the following options: (1) Physical Education, (2) Exercise Science, (3) Athletic Training, (4) Dance, or (5) General Studies.

Graduate Study - The Department offers a program that leads to a Master of Science Degree.

The Department of Kinesiology supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Program Study Centers in foreign countries are equivalent to courses in the Department of Kinesiology and may be used to fulfill some of the requirements for degree options offered by the Department and/or certain general education requirements.

Students should consult the International Programs Bulletin available in the Office of International and Exchange Programs, a departmental advisor, or the campus International Programs Advisor for more information.

RECOMMENDED GENERAL EDUCATION COURSES
Contact department advisor for appropriate courses.

REQUIREMENTS FOR BACHELOR OF SCIENCE DEGREE

LOWER DIVISION PREREQUISITE COURSES (10 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>(Satisfies GE. Section B1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 275</td>
<td>Musculoskeletal Foundations of Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BIOL 211</td>
<td>Human Anatomy</td>
</tr>
<tr>
<td>and</td>
<td>BIOL 212</td>
<td>Lab Studies in Human Anatomy</td>
</tr>
<tr>
<td>(Students planning a career in Physical Therapy must take BIO 211 &amp; 212 to satisfy this requirement. Completion of KIN 275 or BIO 211, 212 is prerequisite to enrollment in KIN 345.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 281</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>(Prerequisite to KIN 346)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LOWER DIVISION REQUIRED COURSES (7 UNITS)

The following required courses and movement proficiencies are required of all kinesiology majors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 240</td>
<td>Conceptual Basis of Kinesiology</td>
<td>1</td>
</tr>
<tr>
<td>(should be taken during first semester as a Kinesiology major)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 241/L</td>
<td>Movement Forms - Exercise and Lab</td>
<td>1/1</td>
</tr>
<tr>
<td>(Prerequisite to KIN 346)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 242</td>
<td>Movement Forms - Basic Dance</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>KIN 244</td>
<td>Movement Forms - Dance</td>
</tr>
<tr>
<td>Select 3 units from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 243/L</td>
<td>Movement Forms - Sport and Lab</td>
<td>1/1</td>
</tr>
<tr>
<td>KIN 250AA-ZZ</td>
<td>Professional Activities (1 unit each)</td>
<td>1/1</td>
</tr>
<tr>
<td>(Students in the Physical Education Option must take KIN 243/L to satisfy part of this requirement.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

UPPER DIVISION REQUIRED COURSES (18 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 302</td>
<td>Measurement and Evaluation in Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 305</td>
<td>Historical and Philosophical Bases of Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 306</td>
<td>Socio-Psychological Aspects of Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>KIN 329/L</td>
<td>Motor Learning and Control and Lab</td>
<td>2/1</td>
</tr>
</tbody>
</table>
**KINESIOLOGY 389**

**LOWER DIVISION REQUIRED COURSES (4 UNITS)**
- HSCI 170 Emergency Health Procedures.............2
- LSRC/KIN 103 Introduction to Outdoor Education & Backcountry .................1

Choose one of the following:
- KIN 130A Karate ..............................................1
- KIN 131A Taekwondo ..........................................1
- KIN 132A Aikido ..................................................1
- KIN 133A Tai Chi Ch’uan .....................................1
- KIN 151A Personal Defense ...................................1

**UPPER DIVISION REQUIRED COURSES (13 UNITS)**
- KIN 325/L Motor Development .........................2/1
- KIN 347 Individual and Special Physical Education ........................................3
- KIN 403 Measurement and Evaluation Lab ..........1
- KIN 471/L Developmental Movement Programs for Child & Lab ..............2/1

Choose one of the following:
- KIN 320/L Advanced Techniques of Team Sports ..........2/1
- or
- KIN 330/L Advanced Techniques of Individual Sports ........................2/1

**MOVEMENT PROFICIENCY:** Requirements beyond the B.S. competency must be met by students seeking the K-12 credential in Physical Education or the Adapted Physical Education credential. These need not be met prior to completion of the B.S. Prior to student teaching, or for approval of Subject Matter Competence, candidates for a teaching credential must achieve a minimum total score of 32 points by successfully demonstrating proficiency in 13 movement forms. Inquire at the department office for specific information.

**SPECIALIZATION**
- Select one of the following specializations:
  - A. Secondary Physical Education
  - B. Dance Education
  - C. Elementary Physical Education
  - D. Adapted Physical Education

**A. SECONDARY PHYSICAL EDUCATION**

**REQUIRED COURSES (6 UNITS)**

Select one of the following:
- KIN 320/L Advanced Techniques of Team Sports ..........2/1
- or
- KIN 330/L Advanced Techniques of Individual Sports .................2/1

(course not taken above)
- KIN 420 Coaching Competitive Sports ...................3

**ELECTIVES (4 UNITS)**

Select four units from the following:
- KIN 310 Visualization in Sport .........................3
- KIN 311/L Ind Prog. Design, Adapted PE ................2/1
- KIN 314/L Creative Dance for Children .................2/1
- KIN 315 Adv Analysis Dance Forms-Social ...........3
- KIN 322 Adv Analysis Exercise Forms-Aerobic ....2
- KIN 337 Prevention & Care Athletic Injuries ..........3
- KIN 350/359 Theory of Coaching Courses ...............2
- KIN 401 Concepts of PE .....................................2
- KIN 402/L Comp Applications Kinesiology ..............2/1

(Satisfies Credential requirement in Computer Competency)
- KIN 428 Aesthetics of Human Movement ................3
- KIN 445 Quantitative Biomechanics ..................3
- KIN 479 Perception and Movement .....................3
- KIN 494A-C Academic Intern. Kinesiology ............1-3

**B. DANCE EDUCATION**

**REQUIRED COURSES (6 UNITS)**
- KIN 315 Adv Analysis Dance Forms-Social ............3

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**MOVEMENT PROFICIENCY EXAM REQUIREMENT**

Prior to graduation all Kinesiology majors must demonstrate proficiency at criterion levels in fitness, sport and dance.

**I. HEALTH RELATED FITNESS**

Criterion standards are based on the Physical Best/Fitnessgram national standards. The tests are administered in KIN 241.

**II. DANCE AND SPORT**

Meet minimum standards (score of 2.0) in at least one test in each of the following three categories. Achieve a score of 3.0 (on a scale of 4.0) in a fourth category. Minimum total score required is 9 points.

- a. Badminton, Golf, Racquetball, Tennis.
- b. Gymnastics, Swimming, Track & Field.
- d. Basic Dance, Modern Dance.

The tests are administered twice each semester, usually during the first and last weeks of the semester. Testing as well as instruction and supervised practice are included in the KIN 250 and 242 and 244 classes. Further information is available in the Kinesiology Student Handbook and at the Kinesiology main office. Students may repeat exams in efforts to improve their scores.

Successful completion of a professional activities course in the major program at an accredited college or university with a grade of C or better will be credited with a 2.0 score unless the student achieves a higher score on a movement proficiency examination at CSUN.

Students with outstanding skill in sports other than those listed above may request the substitution of that sport in one of the three sport groups. It is the responsibility of the student to provide the Kinesiology Department with evidence of proficiency. Aerobics, personal training, power lifting and other fitness-related categories will not satisfy this requirement because they do not fit into the sports category and therefore may not be considered for substitution credit. Inquire at the main Kinesiology office for a substitution petition form.

**OPTIONS**

Students should confer with an advisor and must follow the prescribed program for one of the options outlined below:

**OPTION I: PHYSICAL EDUCATION (27 UNITS)**

This option provides the Subject Matter Preparation required to enter a credential program for teaching Physical Education in California public schools. Students seeking the teaching credential are advised to apply for credential candidacy as second-semester sophomores or first-semester juniors (for two-year college transfers). This is done through the Credential Office on campus. Completion of the Kinesiology major with Physical Education option, plus 33 units of professional education (including student teaching), are required for the Preliminary Credential. Movement proficiencies beyond the B.S. degree requirements must be demonstrated prior to student teaching (see note below). For further information on the Credential program, see the Credential section of this catalog.
REQUIRED COURSES (5 UNITS)

D. ADAPTED PHYSICAL EDUCATION

ELECTIVES (4 UNITS)
Select four units from the following:
- KIN 310 Visualization in Sport
- KIN 311/L Ind Prog Design, Adapted PE
- KIN 314/L Creative Dance for Children
- KIN 316/L Choreograhic Forms and Lab
- KIN 322 Adv Analysis Exercise Forms-Aerobic
- KIN 337 Prevention & Care Athl Injuries I
- KIN 380 World of Dance
- KIN 402/L Comp Applications Kinesiology

(Satisfies Credential requirement in Computer Competency)

KIN 426 Choreography
KIN 427 Dance Production
KIN 428 Aesthetics of Human Movement
KIN 445 Quantitative Biomechanics
KIN 479 Perception and Movement
KIN 494A-L Acad Intern Kinesiology
KIN 498W A/B/C Special PE Field Experience

C. ELEMENTARY PHYSICAL EDUCATION

REQUIRED COURSES (6 UNITS)
Select one of the following:
- KIN 320/L Adv Tech Team Sports
- KIN 330/L Adv Tech Ind Sports

.or

KIN 314/L Creative Dance for Children

ELECTIVES (4 UNITS)

KIN 310 Visualization in Sport
KIN 311/L Ind Prog Design, Adapted PE
KIN 315 Adv Analysis Dance Forms-Social
KIN 337 Prevention & Care Athletic Injuries I
KIN 370/L PE in Early Child Education
KIN 402/L Comp Applications. Kinesiology

(Satisfies Credential requirement in Computer Competency)

KIN 428 Aesthetics of Human Movement
KIN 429 Problems of Atypical Student
KIN 447 Implementation/Instr Adapted PE
KIN 449 PE for Phys Handicapped
KIN 479 Perception and Movement

LOWER DIVISION REQUIRED COURSES (37-38 UNITS)

OPTION II. EXERCISE SCIENCE (37-38 UNITS)

This option is designed to prepare the student with the necessary knowledge and skills to analyze movement and to conduct and administer physical fitness programs. The option is particularly valuable for the student interested in employment in fitness assessment laboratories or fitness centers as well as those intending to pursue graduate study.

LOWER DIVISION REQUIRED COURSES* (13-14 UNITS)

PHYS 100A/L General Physics

Select one of the following:
- CHEM 101/L General Chemistry
- CHEM 103/L Introductory Chemistry

Completion of either MATH 105 or 106 (G.E. Section A.3) or equivalent is a prerequisite to KIN 445

*Students may take these courses to satisfy up to 12 units of G.E. - Section B1 and Section A3.

UPPER DIVISION REQUIRED COURSES (9 UNITS)

KIN 325/L Motor Development
KIN 445 Quantitative Biomechanics
KIN 446/L Research in Exercise Physiology

ELECTIVES (15 UNITS)

Select 15 units with approval of advisor:

KIN 311/L Ind Prog Design, Adapted PE
KIN 337 Prevention & Care Athl Injuries I
KIN 337L Prevention & Care Athl Injuries I, Lab
KIN 402/L Comp Applications Kinesiology
KIN 415 Medical Aspects of Sport and Related Injuries
KIN 456 Adult Exercise Program Design
KIN 476 Musculoskeletal Biomechanics & Injury
KIN 479 Perception and Movement
KIN 494 Academic Internship
KIN 499 Independent Study
KIN 560 Clinical EKG Stress Testing
KIN 575/L Biomechanical Analysis Techniques

Elective: Upper Division KIN elective with prior approval of advisor

OPTION II: ATHLETIC TRAINING (27 UNITS)

This option provides the student with the academic background necessary to challenge the national certification examination of the National Athletic Trainers’ Association Board of Certification (NATA-BOC). To obtain the mandatory clinical experience required by NATA-BOC, a student must obtain formal acceptance into the Athletic Training Education Program which is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAAHEP).

LOWER DIVISION REQUIRED COURSE

HSCI 120/L Emergency Health Procedures

(SELECTABLE COURSES)

KIN 337 Prevention & Care of Athletic Injuries
KIN 337L Prevention & Care of Athletic Injuries Lab

EXECUTIVE ADMINISTRATION OF ATHEROSCLEROSIS

KIN 415 Medical Aspects of Sport and Related Injuries

SELECTABLE COURSES

KIN 337 Prevention & Care of Athletic Injuries
KIN 337L Prevention & Care of Athletic Injuries Lab

ELECTIVES (5 UNITS)

Select five units from the following:
- KIN 429 Perceptual Motor Problems of Atypical Student
- KIN 447 Implementation/Instr Adapted PE

KIN 448/L Phys Manage Phys Disabled
KIN 449 PE for Phys Disabilities
KIN 479 Perception and Movement
KIN 498KA Supervised Indiv. Projects in APE

KIN 317 Adv Analysis-Ballet, Jazz, Modern
KIN 337 Prevention and Care of Athletic Injuries ..................3
KIN 347 Individual and Special P.E. ..............................3
KIN 429 Perceptual Motor Problems of the Atypical Student .......3
KIN 436 Applied Exercise and Sports Phys ........................3
KIN 456 Adult Exercise Program Design ............................3

5. Teaching/Coaching
KIN 310 Visualization and Sport.................................3
KIN 315 Adv Analysis of Dance Forms - Social ..................3
KIN 317 Adv Analysis of Dance Forms - Ballet, Jazz, Modern ..........3
KIN 320/L Advanced Techniques of Team Sports ................3
KIN 330/L Advanced Techniques of Individual Sports ...............3
KIN 350-359 Coaching Courses ...................................3
KIN 370/L P.E. in Early Childhood Education & Lab ...............3
KIN 380 Perspectives of Dance......................................3
KIN 427 Dance Production..........................................3
KIN 428 Aesthetics of Human Movement..........................3
KIN 498WA,B,C Dance Concert Modes .............................3
KIN 426 Choreography..............................................2
KIN 425/L Creative Dance for Children .........................2
KIN 425/L Dance Concert Modes ................................2
KIN 499A,C Independent Study ..................................1-3
Upper Division KIN Elective with approval of advisor ............1-3

OPTION V: GENERAL STUDIES (25 UNITS)

This option is designed to provide a basis for dance experience and potential employment opportunities in the field of performance, choreography and teaching.

Select 25 units with approval of advisor:
KIN 314/L Creative Dance for Children and Laboratory ..........2/1
KIN 315 Adv Analysis Dance - Social ............................2
KIN 316/L Choreographic Forms and Lab ........................2/1
KIN 317 Advanced Analysis of Dance Forms - Ballet, Jazz, Modern ........2
KIN 325 Motor Development......................................3
KIN 426 Choreography..............................................2
KIN 427 Dance Production..........................................3
KIN 428 Aesthetics of Human Movement..........................3
KIN 494A,B,C Supervised Individual Projects ..................1-3
KIN 498WA,B,C Dance Concert Modes ......................1-3
KIN 499A-C Independent Study ..................................1-3
Upper Division KIN Elective with approval of advisor ............1-3

TOTAL UNITS REQUIRED FOR THE MAJOR (60-73)

GENERAL EDUCATION (49 UNITS)
An undergraduate student must complete 52 units of General Education as described in this catalog.
If students select BIOL 101 (4) that is required in the major, to satisfy the 3 units GE requirement in Section B1, the GE total is reduced to 49 units.
*In selected options, there are additional “overlap” units for courses that count in meeting both major requirements and General Education requirements. Students should meet with a department advisor before selecting General Education courses. Failure to select overlapping courses may result in additional units in the major for selected options.

TITLE 5 (6 UNITS)

TOTAL UNITS REQUIRED FOR THE DEGREE: 128

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

The graduate program provides for advanced professional preparation and for introduction to research in an area of specialization.

Students must be classified prior to completion of 12 units of graduate coursework.

Admission to classified graduate status in the program requires:
1. Undergraduate degree in Kinesiology or a related field or completion of department course distribution requirements.
2. Undergraduate grade point average of 2.5 and a score above the 50th percentile on any one of the three sections of the graduate record examination.
3. Approval by the Department Graduate Coordinator.

REQUISITE COURSES (12 UNITS)

KIN 605 Research Methods and Design ..........................3
KIN 610 Quantitative Analysis of Research in Kinesiology .......3
KIN 579 Advanced Studies in Human Motor Development (Formerly KIN 625) ........3

Select two courses from the following list (with approval of advisor)
TOTAL UNITS REQUIRED FOR THE M.S. DEGREE: 30
Note: Of the total 30 units required for the degree, at least 21 must be in 500- or 600-level courses.

COURSE LIST
(For Varsity Athletics courses, see Intercollegiate Athletics Program)

LOWER DIVISION

103. INTRODUCTION TO OUTDOOR EDUCATION AND THE BACKCOUNTRY (1)
Introduction to safe backcountry camping and travel, including elements of trip preparation, cross-country navigation, effects of environmental conditions of cold, heat, and altitude on the human body, nutrition and environmental hazards. Emphasis will be placed on safety, environmental awareness and minimizing environmental impact. Arranged field trips are required.

115A. ADAPTED AND THERAPEUTIC EXERCISE (1-1)
A special course designed for men and women unable to participate in regular activity classes. Classification is made by University physician. Course may be repeated for credit. (Available for General Education, Applied Arts and Sciences.)

116A. ADAPTED SPORTS I (1-1)
A course designed for students whose physical condition requires adaptation of aquatics, sports and rhythms. Course may be repeated for credit. (Available for General Education, Applied Arts and Sciences.)

122A. BADMINTON I (1)
Development of skill in playing badminton, including rules, etiquette, and techniques. (Available for General Education, Applied Arts and Sciences.)

124A. BASKETBALL I (1)
Development of understanding of rules, strategies and basic skills in competitive basketball. (Available for General Education, Applied Arts and Sciences.)

125A. FITNESS FOR LIFE (1)
An introductory course offering a wide variety of conditioning activities (i.e. general aerobics, jogging, weight training, stretching) designed to increase the individual's understanding of conditioning principles and level of fitness necessary for participation in sports or other conditioning activity courses. (Available for General Education, Applied Art and Sciences.)

126A. STRENGTH TRAINING (1)
Course content is designed to emphasize physical fitness with special emphasis on muscular strength. Evaluation of individual needs and fitness programming are included. (Available for General Education, Applied Arts and Sciences.)

129A. RUNNING CONDITIONING I (1)
Development of skill and training methodology for intermediate, distance and cross country running. (Available for General Education, Applied Arts and Sciences.)

129B. RUNNING CONDITIONING II (1)
Prerequisite: Ability to run three miles in 30 minutes or less, or completion of KIN 129A. Development of advanced skills and training methodology for intermediate to long-distance and cross-country running.

130A. KARATE I (1)
Development of skill in basic techniques of Japanese Karate, including self-defense and an examination of Karate history, philosophy and traditions. (Available for General Education, Applied Arts and Sciences.)

130B. KARATE II (1)
Prerequisite: KIN 130A or equivalent. Continuing development of skill in intermediate and advanced techniques of Japanese Karate, including further knowledge of history and traditions of the activity.

130C. KARATE III (2)
Prerequisite: KIN 130B or successful completion of a qualifying exam. Prepares students for tournament level performance. Students refine abilities to react to situations and appropriately combine skills. Students develop the power and speed of movement required in competitive situations.

131A. TAEKWONDO (1)
Development of skill in basic techniques of Korean martial art, including self-defense and an examination of Taekwondo history, philosophy and traditions. (Available for General Education, Applied Arts and Sciences.)

132A. AIKIDO (1)
A study of the techniques and philosophy of Aikido, a Japanese martial art. Focus is on control techniques and is based on a blending of movement and intention so that what appears as a combative situation can be resolved without conflict. (Available for General Education, Applied Arts and Sciences.)

133A. TAI CHI CH'UAN (1)
A study of the philosophy and basic techniques of Tai Chi Ch'uan with special focus on breathing, fluidity of movement, and the application of the techniques to other physical disciplines. (Available for General Education, Applied Arts and Sciences.)

135A. AEROBIC DANCE I (1)
Exercises designed specifically for improving cardiovascular function and physical fitness through the mode of dynamic rhythmic dance movements. (Available for General Education, Applied Arts and Sciences.)

136A. AQUA AEROBICS (1)
A course for swimmers and non-swimmers designed specifically to improve cardiovascular endurance, strength, agility and flexibility through the mode of free dynamic movement in the water. The water provides resistance and buoyancy that promotes a workout virtually free of orthopedic stress. (Available for General Education, Applied Arts and Sciences.)
137A. DANCE, BALLROOM I (1)  
Survey, analysis, practice, and development of social dance  
etiquette and of proficiency in the fundamental skills of  
ballroom dancing.

139A. BALLET I (1)  
Development of proficiency in basic ballet skills, and  
development of understanding and appreciation for ballet as  
an art form. (Available for General Education, Humanities.)

139B. BALLET II (1)  
Prerequisite: KIN 139A. A continued study of ballet  
techniques with emphasis upon combinations of basic skills.

140A. DANCE, FOLK I (1)  
Development of proficiency in folk dance skills, and  
development of understanding and appreciation for folk  
dancing.

140B. DANCE, FOLK II (1)  
Prerequisite: KIN 140A. Development of intermediate folk  
dance skills with emphasis on style and rhythm, as well as  
an understanding and appreciation of the cultural  
background of folk dancing.

141A. JAZZ DANCE I (1)  
Development of proficiency in Jazz Dance techniques, skill  
and development of an understanding and appreciation of  
jazz dance as an art form.

142A. DANCE, LATIN AMERICA I (1)  
Prerequisite: Basic dance skills. Development of proficiency  
in Latin American folk dance skills, in choreography, and in  
performance of group dances based upon the traditional  
forms; introduction to historical background of music.

144A. DANCE, MODERN I (1)  
Development of proficiency in modern dance technique  
skills, and development of an understanding and appreciation  
for modern dance as an art form. (Available for  
General Education, Humanities.)

145A. DANCE, SQUARE AND ROUND I (1)  
Development of square and round dance skills, etiquette,  
derstanding and appreciation.

151A. PERSONAL DEFENSE (1)  
Instruction and practice in the basic techniques of  
anticipating, avoiding, and, when necessary, protecting  
one self from attack. Emphasis is on the avoidance of physical  
confrontation and the discouragement of an attacker.

152A. SOCCER I (1)  
A course designed to practice performance techniques,  
analyze strategies and promote team play and  
sportsmanship in soccer. (Available for General Education,  
Applied Arts and Sciences.)

155A. GOLF I (1)  
Development of basic skill in playing golf, including rules,  
etiquette and background. (Available for General Education,  
Applied Arts and Sciences.)

155B. GOLF II (1)  
Prerequisite: Basic golf skills or completion of KIN 155A.  
Development of proficiency in performance of golf skills  
beyond the elementary level, with special emphasis on the  
short game, game techniques, and links play.

160A. GYMNASTICS APPARATUS - MEN I (1)  
Development of proficiency in intermediate tumbling and  
gymnastics skills, including use of trampoline, mats, and  
heavy apparatus. (Available for General Education,  
Applied Arts and Sciences.)

161A. GYMNASTICS APPARATUS - WOMEN I (1)  
Development of skills, appreciation and techniques for the  
balance beam, uneven parallel bars, side horse, and floor  
exercise. (Available for General Education, Applied Arts and  
Sciences.)

164A. HANDBALL I (1)  
Development of proficiency in handball skills, including  
rules, etiquette, and techniques of playing handball.  
(Available for General Education, Applied Arts and Sciences.)

167A. RACQUETBALL I (1)  
Development of proficiency in racquetball skills, knowledge  
of rules, and techniques and basic strategy. (Available for  
General Education, Applied Arts and Sciences.)

167B. RACQUETBALL II (1)  
Prerequisite: KIN 167A. Development of advanced  
proficiency in racquetball skills with tactics, strategy, safety,  
rules and etiquette stresses.

171A. SOFTBALL I (1)  
Development of proficiency in softball skills, including  
strategy, officiating rules, and appreciations. (Available for  
General Education, Applied Arts and Sciences.)

174A. SNOW SKIING I (1)  
Introduction to the basic snow skiing techniques and safety  
procedures, including the development of appropriate  
physical fitness. (Available for General Education, Applied  
Arts and Sciences.)

176A. SPRINGBOARD DIVING I (1)  
Prerequisite: KIN 176A. Development of proficiency in basic  
diving skills and in performance of specialized diving in the  
various classified categories.

177A. SWIMMING FOR NON-SWIMMERS (1)  
Introduction for the non-swimmer which includes  
fundamental skills for basic swimming strokes, safety and  
survival techniques. (Available for General Education,  
Applied Arts and Sciences.)

178A. SWIMMING I (1)  
Practice in performance and analysis of swimming, diving  
and other aquatic skills at the elementary level. (Available for  
General Education, Applied Arts and Sciences.)

179A. SWIMMING CONDITIONING (1)  
Prerequisite: KIN 178A or equivalent skills. Survey of  
various training methods and development of physical  
fitness utilizing aquatic activity. (Available for General  
Education, Applied Arts and Sciences.)

185A. TENNIS I (1)  
Development of skill in playing tennis, inclusion of  
etiquette, rules, and techniques. (Available for General  
Education, Applied Arts and Sciences.)

185B. TENNIS II (1)  
Prerequisite: Elementary tennis skills or completion of KIN  
185A. Development of higher proficiency in performance of  
tennis skills with special emphasis on game strategy.

191A. TRACK AND FIELD I (1)  
Introduction to and development of basic skills in selected  
running, jumping, and throwing events. (Available for  
General Education, Applied Arts and Sciences.)

195A. VOLLEYBALL I (1)  
Development of proficiency in volleyball skills, including  
background, rules and strategy. (Available for General  
Education, Applied Arts and Sciences.)
250B. VOLLEYBALL II (1)
Prerequisite: KIN 195A. Development of a high degree of skill performance with special emphasis on team strategy.

196A-Z. SELECTED PHYSICAL EDUCATION ACTIVITIES (1-2)
Selected Activity courses with content to be determined.

230. INTRODUCTION TO ADAPTED PHYSICAL EDUCATION AND SPORT (2)
Overview of the field of Adapted Physical Education and Sport activities with an emphasis on understanding the role of exercise and sport for the development of individuals with physical disabilities.

230L. ADAPTED KIN AND SPORT LAB (1)
Corequisite: PE 230. A series of laboratory assignments in Adapted Physical Education and Sport designed to provide “hands on” experience in a supervised setting with a disabled individual.

236. INTRODUCTION TO CHOREOGRAPHY (2)
Prerequisite: Appropriate skill level as determined by the instructor. Principles of dance composition; movement sources, rhythmic, spatial and dynamic techniques of organization, thematic development. Composition of solo and small group dances. (Available for General Education, Humanities.)

236L. INTRODUCTION TO CHOREOGRAPHY LABORATORY (1)
Laboratory practice in choreography.

240. CONCEPTUAL BASIS OF KINESIOLOGY (1)
Introduction to the study and application of the body of knowledge of Kinesiology.

241, 241L. MOVEMENT FORMS - EXERCISE (1, 1)
Prerequisite: KIN 240 or concurrent enrollment (prerequisite waived for Liberal Studies majors). Development of elementary physiological, biomechanical and behavioral concepts and skills in movement fundamentals and body conditioning. Application of these principles to different populations for the development and maintenance of lifelong physical conditioning. 1 unit (activity), 1 unit lab.

242. MOVEMENT FORMS - BASIC DANCE (1)
Prerequisite: KIN 240 or concurrent enrollment. An introduction for the major student to the study of dance as a human movement form. A core course which serves as a base for continued study of the knowledge and applications of Kinesiology.

243, 243L. MOVEMENT FORMS - SPORT (1, 1)
Prerequisite: KIN 240 or concurrent enrollment. An introduction for the major student to the study of sport as a human movement form. A core course which serves as a base for continued study of the knowledge and applications of kinesiology.

244. MOVEMENT FORMS - DANCE (1)
Prerequisite: KIN 240 or concurrent enrollment. An introduction for the major student to the study of stylized dance (social, ethnic, ballet, jazz) as a human movement form. A core course which serves as a base for continued study of the knowledge and applications of Kinesiology.

250BD. PROFESSIONAL ACTIVITIES - BADMINTON (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills, and knowledge of concepts, rules, and strategy in the sport of Badminton. Designed for Kinesiology majors.

250BS. PROFESSIONAL ACTIVITIES - BASEBALL/SOFTBALL (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills, and knowledge of concepts, rules, and strategy in the sports of baseball and softball. For Kinesiology majors.

250BK. PROFESSIONAL ACTIVITIES - BASKETBALL (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills, and knowledge of concepts, rules, and strategy in the sport of basketball. For Kinesiology majors.

250DB. PROFESSIONAL ACTIVITIES DANCE - BALLET (1)
Pre- or corequisite: KIN 240. Development of proficiency in social and intermediate ballet skills. Appreciation and understanding of ballet as an art form. For Kinesiology majors.

250DJ. PROFESSIONAL ACTIVITIES DANCE - JAZZ (1)
Pre- or corequisite: KIN 240. Development of proficiency in basic and intermediate skills of jazz dance and an appreciation and understanding of jazz dance as an art form. For Kinesiology majors.

250DS. PROFESSIONAL ACTIVITIES DANCE - SOCIAL (1)
Pre- or corequisite: KIN 240. Development of proficiency in social dance skills including ballroom, contra, ethnic, and square. Appreciation and understanding of these dance forms and their place in contemporary, multi-ethnic society. For Kinesiology majors.

250FB. PROFESSIONAL ACTIVITIES - FOOTBALL (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills and knowledge of concepts, rules and strategy in the sport of football. For Kinesiology majors.

250GO. PROFESSIONAL ACTIVITIES - GOLF (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills, and knowledge of concepts, rules, and strategy in the sport of golf. For Kinesiology majors.

250GY. PROFESSIONAL ACTIVITIES - GYMNASTICS (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills and knowledge of concepts, rules and strategy in the sport of gymnastics. For Kinesiology majors.

250RQ. PROFESSIONAL ACTIVITIES - RACQUETBALL (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills and knowledge of concepts, rules and strategy in the sport of racquetball. For Kinesiology majors.

250SO. PROFESSIONAL ACTIVITIES - SOCCER (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills and knowledge of concepts, rules and strategy in the sport of soccer. For Kinesiology majors.

250SW. PROFESSIONAL ACTIVITIES - SWIMMING (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills, and knowledge of concepts, rules, and strategy in the sport of swimming. For Kinesiology majors.

250TN. PROFESSIONAL ACTIVITIES - TENNIS (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills, and knowledge of concepts, rules, and strategy in the sport of tennis. For Kinesiology majors.

250TF. PROFESSIONAL ACTIVITIES - TRACK & FIELD (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills, and knowledge of concepts, rules, and strategy in the sport of track & field. For Kinesiology majors.

250VB. PROFESSIONAL ACTIVITIES - VOLLEYBALL (1)
Prerequisite: KIN 240 or concurrent enrollment. Development of skills, and knowledge of concepts, rules, and strategy in the sport of volleyball. For Kinesiology majors.
260L. LIFEGUARDING (1,1)
Prerequisite: Advanced swimming skills. Techniques of lifesaving for the advanced swimmer. Meets American Red Cross requirements for lifeguard training. Topics include rescue skills, techniques and equipment; conditioning; and emergency action plans. One hour lecture, 2 hours laboratory per week.

261. WATER SAFETY INSTRUCTOR (2)
Prerequisites: Current Red Cross Certificate in Senior Lifesaving and consent of instructor. The theory and study for teaching water safety techniques and procedures. Completion of course also includes meeting the proficiency requirements for American Red Cross water safety certification.

262. SKIN AND SCUBA DIVING (1)
Prerequisites: Current Senior Lifesaving Certificate and consent of instructor. Techniques of Skin and SCUBA Diving for the advanced swimmer. Provides orientation in such related activities as underwater photography, exploration, and specimen collection.

262L. SKIN AND SCUBA DIVING LABORATORY (1)
Prerequisite: Concurrent enrollment in KIN 262. Laboratory field practice in skin and scuba diving.

275. MUSCULOSKELETAL FOUNDATIONS OF HUMAN MOVEMENT (3)
Prerequisite: BIOL 101. Comprehensive introduction to the human skeletal, muscular, nervous, and cardiorespiratory systems with emphasis on how these systems are involved in the production, control and modification of human movement.

296. EXPERIMENTAL COURSES IN KINESIOLOGY (1-3)
Selected topics in kinesiology with course content to be determined.
Therapy majors will receive General Education credit, Applied Arts and Sciences, for this course.)

325L. MOTOR DEVELOPMENT LABORATORY (1)
A laboratory experience designed to apply motor development concepts and issues and to develop skills in gathering data, analyzing results, and comparing results to the existing body of knowledge. (Concurrent enrollment in KIN 325 is required.)

329. MOTOR LEARNING AND CONTROL (2)
Prerequisite: KIN 302; corequisite: KIN 329L. Theoretical foundation for the learning and control of motor skills with specific emphasis on the interpretation of this knowledge for the structuring of the learning environment.

329L. MOTOR LEARNING AND CONTROL LABORATORY (1)
Prerequisite: KIN 302; corequisite: KIN 329. Laboratory experiences in the basic concepts of motor learning/control and an introduction to motor behavior research.

330, 330L. ADVANCED TECHNIQUES OF INDIVIDUAL SPORTS (2, 1)
Prerequisite: Upper division standing and completion of badminton, golf, swimming, tennis and track & field movement proficiency requirements. The methods of organizing and teaching individual and dual sports: badminton, golf, swimming, tennis and track. Includes class organization procedures and practices; laboratory practice.

337. PREVENTION AND CARE OF ATHLETIC INJURIES I (3)
Prerequisites: HSCI 170, 170L, BIO 211, 212, 281. An introductory course to the field of athletic training. The role of athletic trainer shall be explored in relation to the physician, coach and athlete. Emphasis will be placed on prevention, recognition, and treatment of the more common sports injuries. Experience will be gained in basic taping skills.

337L. PREVENTION & CARE OF ATHLETIC INJURIES I LAB (1)
Prerequisites: BIOI 211, 212, 281, HSCI 170, 170L. Corequisite: KIN 337. Principles and techniques for application of protective taping, padding, wrapping and bracing with emphasis on the prevention of sport and exercise injuries.

338. TECHNIQUES OF ATHLETIC TRAINING I (2)
Prerequisites: KIN 337 Lecture/demonstration experiences designed to expose the student to the techniques and knowledge required to athletic trainers. Topics covered include: emergency medical techniques, transportation of the injured athlete, athletic equipment fitting, protective equipment fabrication, lower extremity injury evaluation, taping, and bracing.

338L. TECHNIQUES OF ATHLETIC TRAINING I LAB (1)
Laboratory and clinical experiences in athletic training. Observation and practice of skills learned in KIN 338 including evaluation and care of lower extremity injuries. Practice in dealing with actual athletic injuries. Must be taken concurrently with 338.

339. TECHNIQUES OF ATHLETIC TRAINING II (2)
Prerequisites: KIN 337 Lecture/demonstration experiences designed to expose the student to techniques and knowledge required of athletic trainers. Topics covered include: therapeutic techniques associated with athletic injury care, reconditioning regimens, upper extremity evaluation, taping, and bracing.

339L. TECHNIQUES OF ATHLETIC TRAINING II LAB (1)
Laboratory and clinical experiences in athletic training. Observation and practice of skills learned in KIN 339 including evaluation and care of upper extremity injuries. Practice in dealing with actual athletic injuries. Must be taken concurrently with 339.

345. BIOMECHANICS (2)
Prerequisites: BIOL 211 and 212 or KIN 275, and passing score on the ELM. Corequisite: KIN 345. Analysis of the ways in which anatomical makeup and mechanical laws govern the mechanics of human motion.

345L. BIOMECHANICS LABORATORY (1)
Prerequisites: BIOL 211 and 212 or KIN 275, and passing score on the ELM. Corequisite: KIN 345. Laboratory experiments designed to provide practical demonstration of mechanical laws and structured learning of qualitative and quantitative procedures for analyzing human motion.

346. PHYSIOLOGY OF EXERCISE (3)
Prerequisites: BIOL 211 and KIN 241. The effects of physical activity upon the human physiological processes and of the physiological aspects of skill, endurance, fatigue, training, and other phenomena related to physical performance.

346L. PHYSIOLOGY OF EXERCISE LABORATORY (1)
Prerequisite: KIN 346 or concurrent enrollment. Observation experiments, and demonstrations intended to augment KIN 346, Physiology of Exercise. Laboratory 3 hours.

347. INDIVIDUAL AND SPECIAL PHYSICAL EDUCATION (3)
Prerequisites: KIN 345 and 346. A study of common disabilities and deviations in growth, development and motor function in students, including the role played by all physical educators in accommodating special needs students.

350, 350L. COACHING FOOTBALL (1, 1)
Prerequisite: Football proficiency requirement. Analysis and study of techniques and materials in the coaching of football; laboratory practice.

351, 351L. COACHING BASEBALL (1, 1)
Prerequisite: Baseball proficiency requirement. Analysis and study of techniques and materials in the coaching of baseball; laboratory practice.

352, 352L. COACHING BASKETBALL (1, 1)
Prerequisite: Basketball proficiency requirement. Analysis and study of techniques and materials in coaching basketball; laboratory practice.

353, 353L. COACHING TRACK AND FIELD (1, 1)
Prerequisite: Track and field proficiency requirement. Analysis and study of techniques and materials in the coaching of track and field; laboratory practice.

356, 356L. COACHING SWIMMING, SPRINGBOARD DIVING AND WATER POLO (1, 1)
Prerequisite: Swimming proficiency requirement. Analysis and study of techniques and materials in coaching swimming, springboard diving and water polo.

359, 359L. COACHING VOLLEYBALL (1, 1)
Prerequisite: Volleyball proficiency requirement. An upper division elective course for physical education majors and/or minors.

370. PHYSICAL EDUCATION IN EARLY CHILDHOOD EDUCATION (2)
Prerequisite: Kinesiology 325. Course focuses upon the purpose, content, procedures, materials, and equipment; and upon the relation of physical education to the total curriculum development in early childhood education.
370L PHYSICAL EDUCATION IN EARLY CHILDHOOD EDUCATION LABORATORY (1)
Prerequisite: KIN 370 concurrently. Practical laboratory experience in early childhood Physical Education.

380, 380L PERSPECTIVES OF DANCE (2, 1) (Formerly 235)
The history, aesthetics, performance forms, musical forms, cultural and racial heritages and contemporary directions of dance in education and art. Dance as a performing art, as ritual, as social/recreational activity, and dance as a subject for scholarly investigation and analysis. Students will participate in dance techniques related to content presented in the classroom. (Available for General Education, Humanities, Fine Arts.)

385 WOMEN IN SPORT (3)
Prerequisite: Lower Division Writing Requirement. A survey of women's past and present involvement with sport. Examines the social, cultural and developmental implications of sport participation. (Available for General Education, Comparative Cultural Studies.)

396A-Z EXPERIMENTAL COURSES IN KINESIOLOGY (1-3)
Experimental courses in Physical Education with course content to be determined.

401 CONCEPTS OF PHYSICAL EDUCATION (2)
Prerequisite: KIN 305. Examination of the sources, nature, and role of such concepts as values, purposes, and principles found in professional thought and practice.

402 COMPUTER APPLICATIONS IN KINESIOLOGY (2)
Prerequisite: KIN 302 or equivalent. Corequisite: KIN 402L. Significance of the computer in Kinesiology. Examination and analysis of various types of software written for exercise science, physical education and athletics. Application of computer uses for skill and fitness testing in both laboratory and school settings. With 402L, satisfies the computer literacy requirement for the clear credential.

402L COMPUTER APPLICATIONS IN KINESIOLOGY LABORATORY (1)
Prerequisite: KIN 302 or equivalent. Corequisite: KIN 402. Practical application of micro-computer programs in Kinesiology. With 402, satisfies the computer literacy requirement for the clear credential.

403 MEASUREMENT AND EVALUATION LABORATORY (1) (Formerly 302/L)
Prerequisite: KIN 302. Application of measurement techniques for exercise sports, games and dance.

404 PROBLEMS OF SCHOOL ATHLETICS (2)
Prerequisite: Advanced Senior or Graduate standing. Investigation of current problems and trends in the conducting of interscholastic athletics. Examination of principles, policies, and procedures of competitive athletics.

407 SPORT, CULTURE AND SOCIETY (3)
Prerequisite: KIN 306. A study of the role, meaning, and use of American sports from colonial times to the present. An examination of the effects of forces which influence sports in this society and the status of international sports including the role of U.S. Factors affecting sports at the international level and future directions.

408 THE OLYMPIC GAMES (3)
Prerequisite: KIN 305. A study of sport through the perspective of the ancient and modern Olympic Games from a historical and philosophical point of view.

415 MEDICAL ASPECTS OF SPORT & RELATED INJURIES (3)
Prerequisite: KIN 345 or equivalent. A review of selected medical aspects of sport taught by guest medical experts from community hospitals and private practice.

420 COACHING COMPETITIVE SPORTS (3)
Prerequisite: Upper division standing. The psychological, sociological, philosophical perspectives of coaching as these relate to motivation, discipline and interpersonal relations in competitive sports programs.

426 CHOREOGRAPHY (2)
Prerequisites: KIN 236 and 316. A view of dance composition including: movement sources, rhythmic spatial, and dynamic techniques of organization; thematic development; dramatic intent. Composition of solo and small group dances.

427 DANCE PRODUCTION (3)
Prerequisite: KIN 316. The study of techniques and materials in dance as applied to music analysis, and advanced individual and group choreography for performance.

428 AESTHETICS OF HUMAN MOVEMENT (3)
Examines historical and contemporary physical activity movement forms (such as sport, dance and exercise) and the human body as aesthetic expressions and culturally symbolic representations.

429 PERCEPTUAL MOTOR PROBLEMS OF THE ATYPICAL STUDENT (3)
Prerequisite: KIN 329, 347. A descriptive analysis of motor characteristics of the atypical student, including theories of specialized instruction, evaluation, prescribing, and implementing instruction in remedial programs.

436 APPLIED EXERCISE AND SPORTS PHYSIOLOGY (3)
Prerequisites: KIN 346 and completion of lower division writing requirement. Physiological conditioning concepts, including the effects of acute and chronic bouts of exercise training, for the enhancement of health objectives and improvement of sports performance. Regular written assignments will be required.

437 PREVENTION AND CARE OF ATHLETIC INJURIES II (3)
Prerequisites: KIN 337, 345, 346, 347. Concurrent enrollment in KIN, 498AT1 or 2 for Athletic Training students. An advanced study in the prevention, recognition and care of athletic injuries. Emphasis will be placed on advanced evaluation, treatment and in particular reconditioning of injuries sustained by athletes. This is the capstone course for Athletic Training students.

445 QUANTITATIVE BIOMECHANICS (3)
Prerequisites: KIN 345; Math 105 or Math 106. The evaluation and interpretation of motor skill performance on the basis of applied mechanics.

446 RESEARCH IN EXERCISE PHYSIOLOGY (2)
Prerequisite: KIN 346 or equivalent and current certification in American Heart Association basic cardiopulmonary resuscitation (C.P.R.). Concurrent enrollment required in KIN 446L (1 unit). A course designed to explore advanced theory of exercise physiology, as well as concepts and techniques of research.

446L RESEARCH IN EXERCISE PHYSIOLOGY LABORATORY (1)
Prerequisite: KIN 346 or equivalent and current certification in American Heart Association basic cardiopulmonary resuscitation (C.P.R.). Concurrent enrollment required in KIN 446. A laboratory experience designed to provide competency in the application of biomedical instrumentation.
447. IMPLEMENTATION AND INSTRUCTION OF ADAPTED PHYSICAL EDUCATION PROGRAMS (3)
Prerequisite: KIN 347. A study of the principles used in assessment of students with disability and organizing, implementing, and instructing Adapted Physical Education programs.

448. PROGRAM MANAGEMENT FOR STUDENTS WITH PHYSICAL DISABILITIES (2)
Prerequisite: KIN 311, 311L, and 347. To be taken concurrently with KIN 448L. A study of the adapted physical education special exercise class/laboratory, including assessment techniques, programming and use of special equipment. Case studies and exercise prescriptions for students with mild to severe physical disabilities will be examined.

448L. PROGRAM MANAGEMENT FOR STUDENTS WITH PHYSICAL DISABILITIES (1)
Corequisite: Concurrent enrollment in KIN 448. Practical experience in program planning and development including the utilization of special exercise and testing equipment for the physical improvement of students with mild to severe physical disabilities.

449. PHYSICAL EDUCATION FOR STUDENTS WITH PHYSICAL DISABILITY (3)
Prerequisite: KIN 347. A comprehensive study of the etiology of physically disabling conditions including learning characteristics, assessment, and designing and instruction of appropriate physical education experiences. Practicum experience.

456. ADULT EXERCISE PROGRAM DESIGN (3)

457. THERAPEUTIC MODALITIES FOR SPORTS MEDICINE (2)
Prerequisites: KIN 338 and 339; concurrent enrollment in KIN 457L. Designed for athletic training option students. An introduction to purposes, effects, and applications of the therapeutic modalities for use in treating athletic injuries. Lecture, demonstration and discussion formats will be included.

457L. THERAPEUTIC MODALITIES FOR SPORTS MEDICINE LAB (1)
Prerequisite: Concurrent enrollment in KIN 457. Laboratory experiences designed to provide competency in the application of selected therapeutic agents.

467. THERAPEUTIC EXERCISE AND REHABILITATION FOR SPORTS MEDICINE (2)
Prerequisites: KIN 338/L, 339/L, 346; concurrent enrollment in KIN 467L. Course is designed for students in the athletic training option. An introduction to intermediate and advanced techniques in therapeutic exercise and rehabilitation programs for athletic injuries. Lecture, discussion and demonstration formats will be included.

467L. THERAPEUTIC EXERCISE AND REHABILITATION FOR SPORTS MEDICINE LAB (1)
Corequisite: Concurrent enrollment in KIN 467. Laboratory experiences designed to provide competency in the development of reconditioning programs.

470. PHYSICAL EDUCATION FOR CHILDREN (2)
Course focuses upon the growing/moving/learning elementary age child and upon purposes, content, procedures, materials, and equipment central to elementary school Physical Education. (Not available for credit for kinesiology majors.)

470L. PHYSICAL EDUCATION FOR CHILDREN LABORATORY (1)
Prerequisite: Concurrent enrollment in KIN 470. Observation and laboratory experience in elementary school Physical Education. (Not available for credit for kinesiology majors.)

471, 471L. DEVELOPMENTAL MOVEMENT PROGRAMS FOR CHILDREN AND LABORATORY (2, 1)
Prerequisites: KIN 325, KIN 329, and completion of the gymnastics movement proficiency. Content, methodology, materials and equipment central to the planning, implementation, and evaluation of developmental physical activity programs for children. Laboratory provides observation, active participation, and practical experiences in activity programs for children, with an emphasis on elementary school physical education. Not available for credit to students who have successfully completed KIN 470.

476. MUSCULOSKELETAL BIOMECHANICS AND INJURY (3)
Prerequisites: KIN 345, completion of lower division writing requirement or consent of instructor. Anatomical, physiological, and mechanical characteristics of human musculoskeletal tissues and their responses to mechanical loading. Detailed examination of injury mechanisms and their mechanical correlates.

479. PERCEPTION AND MOVEMENT (3)
Prerequisite: KIN 314 and either 470 or 471. An integrated approach into the nature of human movement across the life span with special emphasis on examining the relation between perception and movement as a function of the environment in which one lives.

494 A,B,C. ACADEMIC INTERNSHIP IN KINESIOLOGY (1-3)
Off campus study and research in selected areas of Physical Education with course content to be determined. Basis for grading limited to credit-no credit. (See subtitle in appropriate Schedule of Classes.) An Academic Internship course.

496A-Z. EXPERIMENTAL COURSES IN KINESIOLOGY (1-3)
Experimental courses in Kinesiology with course content to be determined.

496A-X. SUPERVISED INDIVIDUAL PROJECTS (1-3)
Off campus study and research in selected areas of Kinesiology with course content to be determined. Basis for grading limited to Credit-No credit.

498L. FIELD EXPERIENCE IN PHYSICAL EDUCATION FOR ELEMENTARY SCHOOL AGE CHILDREN (2)
Prerequisite: KIN 314 and either 470 or 471. A field experience course designed to give the prospective elementary school teacher an opportunity to develop understanding and skills in observing children’s motor skill behavior and in evaluating a comprehensive elementary school physical education program. Students will be required to complete 45 hours of observation/participation in assigned schools. Regular class meetings will provide guidance and the opportunity to discuss the off-campus experiences. Available for Credit/No Credit only.
GRADUATE

503. PROGRAM PLANNING IN PHYSICAL EDUCATION (3)
Prerequisite: Graduate standing. A study of theory of Physical Education curriculum development. An analysis of the foundations, background, philosophy and current types of physical education instructional programs at all school levels; methods of planning functional physical education curricula.

520. SEMINAR IN COACHING THE MODERN ATHLETE (3)
Prerequisite: KIN 420 and currently teaching or coaching. Examine different teaching and coaching personalities, styles, and communication processes as they relate to interpersonal relations, motivation, discipline, self expression, competition, cooperation, and problems associated with athletic coaching for different age groups and levels of competition.

526/526L. TEACHING EFFECTIVENESS IN KINESIOLOGY AND LABORATORY (2,1)
Prerequisite: KIN 329, 345, 346, or consent of instructor. A seminar designed to develop knowledge and skills of teaching in kinesiology based disciplines in higher education. Study of the research literature in pedagogy with a primary focus on the teaching of motor activities and laboratory courses. Students will examine instructional strategies and develop skill in the use of systematic observation. Two hours of seminar and two hours of laboratory (arranged) per week.

547. PHYSICAL EDUCATION FOR STUDENTS WITH MENTAL RETARDATION AND MULTIPLE-DISABILITIES (3)
Prerequisite: KIN 347 and 429. The design and instruction of physical education programs for students with mental retardation and multiple disabilities. Course includes etiology, assessment, motor learning and instructional principles, and curriculum models applicable to the design of these programs.

560. CLINICAL EKG AND EXERCISE STRESS TESTING (3)
Prerequisite: KIN 446 and 446L. A course in electrocardiography that includes detailed evaluation of basic EKG arrhythmias and their relationship to exercise testing and training.

566. SEMINAR IN AGING AND ENVIRONMENTAL ASPECTS OF EXERCISE (3)
Prerequisites: KIN 554. An advanced study of physiological responses to exercise as a function of aging and environmental processes.

575. BIOMECHANICAL ANALYSIS TECHNIQUES (2)
Prerequisites: KIN 345. Lower Division Writing Requirement, or consent of instructor. Concurrent enrollment required in KIN 575L (1 unit). Techniques for collecting and analyzing quantitative human movement data from high-speed film, video, dynamography, and electromyography, including theories supporting three-dimensional analysis and data-smoothing methodologies. Regular writing assignments required.

575L. BIOMECHANICAL ANALYSIS TECHNIQUES LABORATORY (1)
Prerequisites: KIN 345 and consent of instructor. Concurrent enrollment in KIN 575 (2 units). A laboratory experience designed to provide competency in the collection and interpretation of both kinematic and kinetic data for human movement research applications.

579. ADVANCED STUDIES IN HUMAN MOTOR BEHAVIOR (3)
Prerequisite: KIN 479 or consent of instructor. An in-depth investigation into the theories, principles, and research in motor development, motor learning, and motor control, with emphasis on describing and explaining changes in movement patterns across the lifespan.

600. ADMINISTRATION AND SUPERVISION OF PHYSICAL EDUCATION (3)
A study of the history, philosophy, principles and techniques of the administration and supervision of physical education on all school and college levels.

602. SEMINAR IN CURRENT ISSUES IN KINESIOLOGY (3)
An intensive study of current issues and problems in physical education through philosophical examination and analysis of literature and research findings.

605. RESEARCH METHODS AND DESIGN (3)
Prerequisite: KIN 302 and a score of 10 on the UDWPE or ENGL 305. A study of various types of research used in kinesiology, and techniques employed in collecting, classifying, interpreting and presenting data.

606. SEMINAR IN SOCIAL PSYCHOLOGY OF SPORT (3)
Prerequisite: KIN 306. An advanced study of the influence of social-psychological variables as they relate to motor performance. Topics may include aggression, attitude formation and change, arousal and anxiety, achievement motivation, attribution theory, social facilitation, social reinforcement, observational learning and the competition process.

607. SEMINAR IN SPORT HISTORY (3)
Prerequisite: KIN 305. Significant trends and problems which have affected the growth and present structure of sport from the primitive through the modern period.

610. QUANTITATIVE ANALYSIS OF RESEARCH IN KINESIOLOGY (3)
Prerequisite: KIN 302, 402 and 402L. A study of advanced statistical methods for quantitative analysis of research data in kinesiology including computer analysis.

626. PHILOSOPHIC DEVELOPMENT OF PHYSICAL EDUCATION (3)
Prerequisite: KIN 401. An analysis and synthesis of the knowledge and interpretation of the development of philosophic schools and variants in the thought and practice of physical education.

642 A,B,C. DIRECTED RESEARCH, PHYSIOLOGY OF EXERCISE (1-3)
Prerequisite: KIN 446. Library and Laboratory research techniques employed in the assessment of human performance capacity. Emphasis is primarily on physiological measurements of metabolic functions in humans.

645. SEMINAR IN BIOMECHANICS (3)
Prerequisite: KIN 445 or consent of instructor. Analysis of current and classical research literature related to human biomechanics. Emphasis on sport and ergonomic applications.
646. SEMINAR IN EXERCISE PHYSIOLOGY (3)
Prerequisite: KIN 446 or consent of instructor. Advanced human physiological variability and potentialities and requirements for muscular activity.

652. SEMINAR IN EXERCISE PHYSIOLOGY OF SKELETAL MUSCLE (3)
Prerequisites: KIN 446, 446L, Chem 235. A study of the physiological, anatomical, morphological, and biochemical adaptations of skeletal muscle to exercise training.

654. EXERCISE TOLERANCE TESTING AND PRESCRIPTION (3)
Prerequisites: KIN 456 and KIN 466 & 446L. A review of modern concepts of wellness and the application of exercise prescription principles to healthy and at risk populations in accordance with the guidelines of American College of Sports Medicine and the American Heart Association.

656. EXERCISE BASES OF CARDIAC REHABILITATION (3)
Prerequisite: KIN 466 or equivalent and basic certification in C.P.R. A study of exercise and related program components in rehabilitation of coronary heart disease. Emphasis on the role of the exercise physiologist in the integrated clinical team approach.

679. SEMINAR IN MOTOR BEHAVIOR (3)
Prerequisite: KIN 629 or equivalent. Study and seminar discussion of selected topics in motor learning.

695A-Z. SPECIAL TOPICS (1-3)
Prerequisite: Consent of advisor or instructor. Specialized topics from a concentrated field of current interest presented at an advanced level.

696. DIRECTED GRADUATE RESEARCH (1-3)
Prerequisite: Classified status and permission of graduate coordinator. Special graduate studies in kinesiology.

698A-C. THESIS OR GRADUATE PROJECT (1-3)
Prerequisite: Classified status and permission of thesis or project chair. (This course may be repeated but not more than 4 units may be included among the 30 total units required for the M.A. degree.)

699. INDEPENDENT STUDY (1-3)
Prerequisite: Consent of Graduate Coordinator. Consists of a project designed to meet a highly specialized graduate need. Project selected in conference with a faculty sponsor; progress meetings held regularly until end of semester.
LEISURE STUDIES AND RECREATION
Chair: Veda Ward

COLLEGE OF HEALTH AND HUMAN DEVELOPMENT
Department Office: Kinesiology 250  
Phone: (818) 667-3202  
Administrative Support Assistant: Patricia Tabidian

FACULTY: Craig Finney, Jack Foley, David Sterle, Jan Tolan, Veda Ward (Chair), Robert Winslow, Alan Wright

EMERITUS FACULTY: John Bullaro, Byrne Fernelius, Lola Sadlo, Isabelle Walker

UNDERGRADUATE ADVISORS: Craig Finney, Jack Foley, David Sterle, Jan Tolan, Veda Ward, Robert Winslow, Alan Wright

GRADUATE ADVISORS: Craig Finney, Jan Tolan, Veda Ward, Robert Winslow, Alan Wright

DEGREES OFFERED: B.S., Minor, M.S. in Recreation Management: B.S. option in Therapeutic Recreation.

ACCREDITATION: The department is fully accredited by the National Recreation and Park Association/American Association for Leisure and Recreation Council on Accreditation.

ACADEMIC ADVISEMENT: Academic advisement is mandatory during each semester registration period. In addition, faculty are available throughout the semester for consultations both by appointment and during regular office hours. Students are expected to meet with their assigned advisers as needed.

THE MAJOR: The major in Leisure Studies and Recreation is a competency-based curriculum that prepares the student in leadership, management, computer skills, communications, group dynamics, marketing, public relations, activity and event programming, and research by incorporating interdisciplinary perspectives. Courses apply knowledge and techniques to play, recreation and leisure throughout the life span, preparing the individual to work in a variety of human service/human development agencies with diverse, pluralistic, and international communities.

Two areas of professional concentration are available: Recreation Management and Therapeutic Recreation. These are designed to assist the student in reaching specific professional goals.

RECREATION MANAGEMENT CONCENTRATION: A critical element in urban life today is understanding and working comfortably with diverse groups. Leisure studies and recreation professionals can make a difference in the quality of life for all citizens by encouraging and facilitating the positive use of leisure time. Recreation centers and the surrounding parks can become the focal points for community residents who may need assistance in breaking out of negative life patterns or simply enjoying their leisure time, regardless of age, ability, or socioeconomic status.

The Recreation Management emphasis has been developed to educate students in leisure and play theory, recreation programming, leadership, management, and working with diverse groups. Students will complete 1200 hours of practicum and internship experiences in various leisure service settings in the for-profit, government and non-profit sectors.

THERAPEUTIC RECREATION CONCENTRATION: The Recreation Therapist is prepared to utilize recreation as a treatment and education modality for children, youth, adults, and older adults with physical, cognitive, emotional and/or social disabilities or impairments in clinical, residential, and community settings. Therapeutic Recreation programs are designed to facilitate positive changes within individuals with disabilities and to enable them to enjoy health, well-being, and independent leisure lifestyles. Therapists must be able to assess clients’ needs and abilities and apply appropriate intervention strategies.

Students in this concentration will complete 1200 hours of clinical/community Therapeutic Recreation practicum and internship experiences. Graduates qualify for both state and national therapeutic certification.

MINOR: This program provides a basic framework of skills and understandings in the function, structure and process of leisure and recreation services. Students completing the minor will be able to perform such services in relation to professional roles in related fields.

MASTER OF SCIENCE DEGREE: The master’s degree program in Recreation Administration was developed for persons interested in developing and/or improving their knowledge of and skills in leisure service management. It is geared for the working professional in the field of leisure and recreation services and students interested in pursuing doctoral study. The selection of courses allows students to “specialize” in either A) Leisure Services Administration, or B) Therapeutic Recreation Supervision/Administration.

CAREERS: Programs in this department prepare students for professional careers as coordinators, directors, supervisors, or managers in public, commercial, private, and clinical recreation and human service agencies, hospitality and outdoor recreation providers.

REQUIREMENTS FOR BACHELOR OF SCIENCE DEGREE

RECREATION MANAGEMENT CONCENTRATION
The department is committed to providing a generalist framework from which students may seek one or more professional certifications.

LOWER DIVISION REQUIRED COURSES (12 UNITS)
LSRC 200/L Introduction to Program Planning for Leisure Services .........................2,1
LSRC 251 Recreation & the Natural Environment.........................3
LSRC 270 Commercial Recreation........................................3
LSRC 286/L Leisure in the Multicultural Community ....2,1

UPPER DIVISION REQUIRED COURSES (33 UNITS)
LSRC 315 Leisure for Individuals with Special Needs & Disabilities ........................................2,1
LSRC 371/L Supervision and Leadership in Leisure Services .......................3
LSRC 376 History & Philosophy of Leisure & Recreation..........................3
LSRC 385 Urban Recreation........................................3
LSRC 434/L Community Relations & Computer Applications in Leisure & Recreation ....2,1
LSRC 461 Theory & Analysis of Play..................................3
LSRC 464 Research in Recreation & Leisure...........................3
ELECTIVES (MINIMUM 12 UNITS)

Volunteer and/or paid work practicum experiences will include at least 600 hours in a variety of human service/human development settings (public, non-profit, private, commercial, outdoor). A culminating internship experience of 500 hours will be completed during the student’s senior year in the program. Students must consult with department faculty regarding policies and procedures of the practicum and internship experiences.

In consultation with and approval from the Urban Recreation Management faculty advisor, the student will select a minimum of 12 units of electives within at least TWO of the areas identified below:

A) Career Setting

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>LSRC 471</td>
<td>Organization &amp; Management in Leisure Services</td>
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<tr>
<td>LSRC 490</td>
<td>Senior Seminar</td>
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<tr>
<td>LSRC 494</td>
<td>Internship</td>
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B) Diversity

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ANTH 345</td>
<td>Ethnic Groups in America</td>
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<tr>
<td>AAS 340</td>
<td>Asian American Women</td>
<td></td>
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<tr>
<td>AAS 450</td>
<td>Asian American Child &amp; the Schools</td>
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<tr>
<td>CHS 430</td>
<td>The Chicano Child</td>
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<tr>
<td>CHS 431</td>
<td>The Chicano/Mexican Adolescents</td>
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<tr>
<td>COMS 360</td>
<td>Communication and the Sexes</td>
<td></td>
</tr>
<tr>
<td>JOUR 372</td>
<td>Minorities &amp; the Media</td>
<td></td>
</tr>
<tr>
<td>LSRC 310/L</td>
<td>Adventure Recreation &amp; Human Relation with Lab.</td>
<td>2/1</td>
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<tr>
<td>LSRC 330</td>
<td>Women, Leisure &amp; Ethnicity in the United States</td>
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<tr>
<td>LSRC 415</td>
<td>Leisure and Aging</td>
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<tr>
<td>PAS 300</td>
<td>Contemporary Issues in the African-American Community</td>
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<tr>
<td>PAS 322</td>
<td>African-American Family</td>
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<tr>
<td>PAS 420</td>
<td>The Black Child</td>
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<tr>
<td>POLS 197</td>
<td>Ethnic Politics</td>
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<tr>
<td>RS 378</td>
<td>American Jewish Experiences</td>
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<tr>
<td>SOC 307</td>
<td>Ethnic Diversity in America</td>
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<tr>
<td>WS 300</td>
<td>Women as Agents of Change</td>
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C) Practical Application

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ACCT 220A</td>
<td>Principles of Accounting I</td>
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<tr>
<td>ARTS 303</td>
<td>Multicultural 3D Art</td>
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<tr>
<td>BLAW 280L</td>
<td>Business Law</td>
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<tr>
<td>CDEV 406/L</td>
<td>Enhancing Childhood Creativity &amp; Lab.</td>
<td>2/1</td>
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<tr>
<td>FES 330</td>
<td>Child Growth &amp; Development</td>
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<tr>
<td>KIN 470/L</td>
<td>Physical Education for Children</td>
<td>2/1</td>
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<tr>
<td>LSRC 103</td>
<td>Introduction to the Backcountry</td>
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<tr>
<td>LSRC 305</td>
<td>Dynamics of Early Childhood Play</td>
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<tr>
<td>LSRC 351</td>
<td>Practices of Nature Interpretation</td>
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<tr>
<td>LSRC 431</td>
<td>Leisure Education</td>
<td></td>
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<tr>
<td>MATH 103</td>
<td>Mathematics for Business Applications</td>
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<tr>
<td>MKTG 304</td>
<td>Introduction to Marketing Management</td>
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<tr>
<td>SPC 151</td>
<td>Fundamentals of Public Speaking</td>
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D) Urban Environment

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOL 323</td>
<td>Plants &amp; Animals of Southern California</td>
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<tr>
<td>BIOL 325/L</td>
<td>Life in the Sea &amp; Laboratory</td>
<td>3/1</td>
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<tr>
<td>GEOG 351</td>
<td>Urban Geography</td>
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<tr>
<td>GEOL 345</td>
<td>Geology of California</td>
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<tr>
<td>HSCI 336</td>
<td>Health Aspects of Drug Use</td>
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<tr>
<td>POLS 441</td>
<td>Interest Groups</td>
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<tr>
<td>POLS 467</td>
<td>Urban Administration</td>
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<tr>
<td>URBS 310</td>
<td>Growth and Development of Cities</td>
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<tr>
<td>URBS 450</td>
<td>Urban Problems Seminar</td>
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</tbody>
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TOTAL UNITS IN THE MAJOR (57 UNITS)

GENERAL EDUCATION (52 UNITS)

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (13 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 128

THERAPEUTIC RECREATION OPTION

LOWER DIVISION REQUIRED COURSES (12 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>LSRC 200/L</td>
<td>Introduction to Program Planning for Leisure Services</td>
<td></td>
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<tr>
<td>LSRC 251</td>
<td>Recreation &amp; the Natural Environment</td>
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<tr>
<td>BIOL 211, 212</td>
<td>Human Anatomy &amp; Laboratory</td>
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<tr>
<td>LSRC 275</td>
<td>Foundations of Therapeutic Recreation</td>
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<tr>
<td>BIOL 281</td>
<td>Human Physiology</td>
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UPPER DIVISION REQUIRED COURSES (44 UNITS)

THERAPEUTIC RECREATION OPTION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>LSRC 315</td>
<td>Leisure for Individuals with Special Needs &amp; Disabilities</td>
<td></td>
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<tr>
<td>PSY 310</td>
<td>Behavioral Disorders</td>
<td></td>
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<tr>
<td>FES 330</td>
<td>Child Growth &amp; Development</td>
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<tr>
<td>LSRC 375</td>
<td>Programming &amp; Adaptive Techniques in Therapeutic Recreation</td>
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<tr>
<td>LSRC 375L</td>
<td>Programming &amp; Adaptive Techniques in TR Laboratory</td>
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<tr>
<td>LSRC 376</td>
<td>History &amp; Philosophy of Leisure &amp; Recreation</td>
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<tr>
<td>LSRC 434/L</td>
<td>Community Relations &amp; Computer Applications in Leisure &amp; Recreation</td>
<td>2/1</td>
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<tr>
<td>LSRC 461</td>
<td>Theory &amp; Analysis of Play</td>
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<tr>
<td>CHS 155</td>
<td>Freshman Composition</td>
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<tr>
<td>LSRC 464</td>
<td>Research in Recreation &amp; Leisure</td>
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<tr>
<td>LSRC 475</td>
<td>Therapeutic Recreation Process</td>
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<tr>
<td>LSRC 476</td>
<td>Organization of Therapeutic Recreation Services</td>
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<tr>
<td>LSRC 490</td>
<td>Senior Seminar</td>
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<tr>
<td>LSRC 494</td>
<td>Internship</td>
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</table>

Volunteer and/or paid work practicum therapeutic recreation experiences will include at least 600 hours in a variety of settings such as hospitals, partial hospitalization programs, rehabilitation centers, long term and skilled nursing facilities developmental centers, community agencies, and correctional facilities. A culminating internship experience of 600 hours must be completed during the last semester of the student’s program. Students must consult with therapeutic recreation faculty regarding policies and procedures governing practicum and internship experiences.

ELECTIVES (6 UNITS MINIMUM)

Therapeutic Recreation Option students are required to take at least 6 units of electives outside the Department of Leisure Studies and Recreation.

A) ART

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART 481</td>
<td>Art as Therapy</td>
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B) Communicative Disorders

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<tr>
<th>Course Code</th>
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<tr>
<td>CD 345</td>
<td>Hearing Science</td>
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C) Educational Psychology and Counseling

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EPC 451</td>
<td>Fundamentals of Counseling and</td>
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</table>
D) Family Environmental Science
FES 425 Independent Living for Elderly & Disabled Individuals 3

E) Health Science
HSCI 312 Health Administration 3
HSCI 336 Health Aspects of Drug Use 3

F) Kinesiology
KIN 230/L Introduction to Adapted Physical Education & Laboratory 2/1
KIN 311/L Individual Program Design, Adapted Physical Education & Laboratory 2/1
KIN 329/L Motor Learning & Development 2/1
KIN 346 Physiology of Exercise 3
KIN 347 Individual and Special Physical Education 3
KIN 429 Perceptual-Motor Problems of the Atypical Child 3

G) Music
MUS 483 Music in Therapy 3

H) Psychology
PSY 313 Developmental Psychology 3
PSY 317 Psychopharmacology 3
PSY 345 Social Psychology 3
PSY 365 Introduction to Gerontology 3
PSY 370 Dynamics of Individual Behavior 3
PSY 383 Interpersonal Competence & Group Dynamics 3
PSY 406 Developmental Disability 4
PSY 407 Medical Psychology 4
PSY 461 Adolescence 4
PSY 465 Aging 4

I) Sociology
SOC 304 Sociology of Deviance 3
SOC 305 Culture and Personality 3
SOC 345 Social Psychology 3
SOC 348 Juvenile Delinquency 3
SOC 355 Criminology 3
SOC 440 Sociology of Aging 3
SOC 445 Social-Psychological Aspects of Health Care Problems 3
SOC 474 Contemporary Treatment of Law Violators 2/1

J) Special Education
SPED 160 American Sign Language 4
SPED 360 American Deaf Culture 3
SPED 400 Introduction to Special Education 3

TOTAL UNITS IN THE MAJOR (63 UNITS)
GENERAL EDUCATION (52 UNITS)
TITLE 5 (6 UNITS)
ADDITIONAL UNITS (7 UNITS)
TOTAL UNITS REQUIRED FOR DEGREE: 128

THE MINOR (24 UNITS)
REQUIRED CORE (12 UNITS)
LSRC 200/L Introduction to Program Planning for Leisure Services 2/1
LSRC 251 Recreation & the Natural Environment 3
LSRC 315 Leisure for Individuals with Special Needs & Disabilities 3

LEISURE STUDIES AND RECREATION
LSRC 461 Theory & Analysis of Play 3

ELECTIVES (12 UNITS, TO BE SELECTED FROM THE FOLLOWING COURSES)

LSRC 270 Commercial Recreation 3
LSRC 275 Foundations of Therapeutic Recreation 3
LSRC 286/L Leisure in the Multicultural Community 2/1
LSRC 305 Dynamics of Early Childhood Play 3
LSRC 351 Practices of Nature Interpretation 3
LSRC 370 Industrial Recreation 3
LSRC 371/L Supervision and Leadership in Leisure Services 2/1
LSRC 385 Urban Recreation 3
LSRC 405 Play and the Exceptional Child 3
LSRC 415 Leisure and Aging 3
LSRC 431 Leisure Education 3
LSRC 444 Voluntary Community 3
LSRC 471 Organization and Management in Leisure Services 3
LSRC 480 Recreational Tourism: Issues & Trends 3

MASTER OF SCIENCE DEGREE

REQUIREMENTS FOR ADMISSION TO THE PROGRAM:
Bachelor’s degree in Recreation. Students not so qualified must successfully complete a prescribed program with a grade point average of 3.0. University requirements for classified status must be met for promotion to classified status.

REOUIRED COURSES (6 UNITS)
LSRC 602 Theoretical Foundations of Leisure and Play 3
LSRC 684 Advanced Research Method and Design 3

MANAGEMENT SEMINARS (9 UNITS)
LSRC 570 Futures Research and Planning in Leisure Services 3
LSRC 580 Tourism Planning: A Cultural and International Perspective 3
LSRC 608 Consultation in Leisure Services 3
LSRC 642 Current Issues and Trends in Therapeutic Recreation 3
LSRC 644 Evaluation and Documentation in Therapeutic Recreation 3
LSRC 661 Seminar in Administrative Problems in Recreation 3
LSRC 665 Interorganizational Strategies for Leisure Agencies 3

ELECTIVES (9 - 12 UNITS, DEPENDING ON SPECIALIZATION)
To be chosen with the approval of the graduate advisor.

QUALIFICATION AREAS (WRITTEN AND ORAL)
2 areas (0 Units)

THESIS/PROJECT (3 - 6 UNITS)
LSRC 698 Thesis or Graduate Project

ORAL EXAMINATION
Required of candidates, includes the defense of thesis or project.
286. LEISURE SERVICES IN THE MULTICULTURAL COMMUNITY (2) (FALL ONLY)
Corequisite: LSRC 286L. A combination of classroom and field-based learning approaches introduces the student to the role of leisure services and recreation as a socializing force in the multicultural urban environment. Emphasis is on discussion, reflection and analysis of course materials and experiences.

286L. LEISURE SERVICES IN THE MULTICULTURAL COMMUNITY LAB (1) (FALL ONLY)
Corequisite: LSRC 286. The laboratory experience consists of placement in the City of Los Angeles under direction of a full-time licensed professional employed by the city of Los Angeles Recreation and Parks Department. Students will generate learning objectives and will be trained to achieve those objectives focusing on improved leisure service to the multicultural urban center.

296A-Z. EXPERIMENTAL COURSES IN RECREATION AND LEISURE STUDIES (1-3)
Experimental courses in Recreation and Leisure Studies with course content to be determined.

305. DYNAMICS OF EARLY CHILDHOOD PLAY (3)
Study of play in relation to the child’s early growth and development. Implications for functional, environmental, and leadership dimensions of organized play experiences in early years.

310. ADVENTURE RECREATION AND HUMAN RELATIONS (2)
Prerequisite: Lower Division Writing Requirement; corequisite: LSRC 310L. Introduction to personal growth and adventure. Explore issues of identity, racial and ethnic diversity, gender, and self-esteem through readings, written assignments, and recitation. Regular written assignments required. (Available for General Education, Applied Arts and Sciences.)

310L. ADVENTURE RECREATION LABORATORY (1)
Corequisite: LSRC 310. Introduction to adventure recreation and diversity issues through group initiatives and participation in a shared adventure of ropes course activities. (Available for General Education, Applied Arts and Sciences.)

315. LEISURE SERVICES FOR INDIVIDUALS WITH SPECIAL NEEDS AND DISABILITIES (3)
Prerequisite: Lower Division Writing Requirement; LSRC 200/200L. Study of the nature and function of leisure services for individuals from diverse cultural backgrounds, with disabilities, and/or who are older adults. Emphasis will be placed on societal attitudes toward disability, ethnicity, and aging, identifying constraints to leisure participation, accessibility and equivalency of recreation facilities and services. Regular written assignments are required.

330. WOMEN, LEISURE AND ETHNICITY IN THE UNITED STATES (3)
Prerequisite: Lower Division Writing Requirement. The relationship among women, ethnicity, and leisure will be examined, providing opportunities to investigate a variety of factors affecting women in the United States. Regular written assignments required. (Available for General Education, Comparative Cultural Studies.)

351. PRACTICES OF NATURE INTERPRETATION (3) (FALL ONLY)
Prerequisites: Lower Division Writing Requirement, and the following General Education Section B courses: Biology 323...
and 392E, and Geography 101. Nature interpretation: wilderness philosophy and recreation practices for program planning in outdoor environments. Regular written assignments will be required.

352. PLAY AND HUMAN POTENTIAL (3)
Prerequisite: Lower Division Writing Requirement. An examination of the play phenomenon across the lifespan. An exploration, analysis and evaluation of the play phenomenon in development of human potential. Regular written assignments are required. (Available for General Education, Applied Arts and Sciences.)

353. LITERATURE OF THE WILDERNESS EXPERIENCE (2)
Prerequisite: Completion of the lower division writing requirement. Corequisite: LSRC 353L. A review of the writings of various wilderness adventurers both past and present (such as Boone, Powell, Muir, Leopold, Abbey). The emphasis will be on assessing their experiences in the wilderness, their goals, and their methods. Regular written assignment will be required. (Available for General Education, Applied Arts and Sciences.)

353L. LITERATURE OF THE WILDERNESS EXPERIENCE LAB (1)
Corequisite: LSRC 353. This lab allows students to personally experience some of the values of wilderness environments discussed in LSRC 353. In addition, students will develop personal goals (such as those sought by previous wilderness adventurers) to be achieved on arranged field trips to wilderness areas. (Available for General Education, Applied Arts and Sciences.)

370. CORPORATE/EMPLOYEE RECREATION (3)
(SPRING ONLY)
Prerequisite: LSRC 200 and 200L. A study of the nature and function of recreation within the corporate setting. Development of skills required for organizing, promoting and implementing employee recreation and leisure service programs within the confines of corporate structures.

371. SUPERVISION IN LEISURE SERVICES & RECREATION (2)
(SPRING ONLY)
Prerequisites: LSRC 200, 200L, and Lower Division Writing Requirement; corequisite: LSRC 371L. A study of the principles, methods, and techniques, as well as an analysis of the functions of supervision, in the recreation and parks environment. Regular written assignments will be required.

371L. SUPERVISION LAB (1) (SPRING ONLY)
Corequisite: LSRC 371. Two hours of activity per week. Includes actual participation and demonstration in leadership and supervision techniques.

375. PROGRAMMING AND ADAPTIVE TECHNIQUES OF THERAPEUTIC RECREATION (3) (SPRING ONLY)
Prerequisites: LSRC 275, PE 345 (may be taken concurrently), and LSRC 375L taken concurrently. An upper-division course offering programming, therapeutic approaches, and adaptations of appropriate therapeutic recreation activities for diverse special needs populations.

375L. PROGRAMMING AND ADAPTIVE TECHNIQUES IN TR LABORATORY (2) (SPRING ONLY)
To be taken concurrently with LSRC 375. Designed to provide the student with the basic application of programming, therapeutic approaches, and adaptations of appropriate therapeutic recreation activities for diverse special needs populations.

376. HISTORY AND PHILOSOPHY OF LEISURE (3)
Prerequisite: LSRC 200, 200L, Lower Division Writing Requirement, and completion of General Education Section F-1. Consideration of leisure as an essential element of sociocultural traditions, and the value systems within which it has been housed. Foundations of recreation in terms of historical and philosophical roots, from ancient to contemporary eras.

385. URBAN RECREATION (3) (Formerly 285) (SPRING ONLY)
Prerequisite: Lower Division Writing Requirement. Critical examination and analysis of recreation and leisure services are examined as part of human service interventions critical to improving quality of life in the populous metropolitan environment. Emphasis is placed on multicultural dynamics affecting service delivery. Regular written assignments required.

396A-Z. EXPERIMENTAL COURSES IN RECREATION AND LEISURE STUDIES (3)
Experimental courses in Recreation and Leisure Studies with course content to be determined.

398. SUPERVISED INDIVIDUAL PROJECTS (1-1)
Study and research in selected areas with course content to be determined. An Academic Internship course.

405. PLAY AND THE EXCEPTIONAL CHILD (3)
(EVERY OTHER YEAR)
Prerequisites: Special Education 400, or LSRC 305, or FES 330. Alternative approaches to traditional play techniques for the exceptional child.

406/406L. ENHANCING CHILDHOOD CREATIVITY AND LABORATORY (2/1)
Prerequisites: Lower Division Writing Requirement, PSY 150, and a course in child growth and development. An integrative seminar and laboratory experience focusing on the theoretical approaches for enhancing childhood creativity. The uses of play and fantasy will be explored as the means for developing programs which are child oriented. Regular written assignments will be required. (Same as Child Development 406/L.)

415. LEISURE AND AGING (3) (FALL ONLY)
Study of the psycho-social aspects of aging as related to leisure and recreation. Implications for functional, environmental and leadership dimensions of leisure and recreation experiences in the later years.

431. LEISURE EDUCATION (3) (FALL ONLY)
Prerequisite: LSRC 376. A comprehensive study of the current trends, practices and techniques in the field of leisure education. Simulated situations are employed.

434. COMMUNITY RELATIONS AND COMPUTER APPLICATIONS IN RECREATION (2) (FALL ONLY)
Prerequisites: LSRC 200/200L, 376. Corequisite: LSRC 434L. Interpretation and promotion of recreation programs and activities through the use of media processes and resources, marketing principles, computer applications and community relations.

434L. COMMUNITY RELATIONS AND COMPUTER APPLICATIONS IN RECREATION LAB (1) (FALL ONLY)
Corequisite: LSRC 434. Laboratory experience geared towards the application of community relations and activities through the use of computer applications.

444. THE VOLUNTARY COMMUNITY (3) (SPRING ONLY)
Prerequisite: Senior standing or consent of instructor. The study of voluntarism as a function of leisure in American
institutions; recreation health, social service, education, and politics. The course specifically emphasizes history and the development of the volunteer movement, theory of voluntary participation and philanthropy, structure and function of voluntary agencies, and techniques for volunteer management.

**452. OUTDOOR RECREATION LEADERSHIP (3)**
Prerequisites: LSRC 251, LSRC 351, and PSY 383. Corequisite LSRC 452L. An analysis of leadership theory and small group dynamic as they apply to such unique outdoor recreation circumstances as camps, sailing programs or wilderness expedition. The course emphasis will be on the competencies, training, methods and procedures that are critical to the leading of safe outdoor programs.

**452L. OUTDOOR RECREATION LEADERSHIP LABORATORY (2)**
Prerequisites: LSRC 103, 205 or 207, Advanced First Aid. Corequisite: LSRC 452. The development of outdoor leadership through the direct application of leadership theories and methods in outdoor recreation programs and backcountry settings. Intended as a preparatory course for outdoor recreation professionals. Arranged field trips are required.

**461. THEORY AND ANALYSIS OF PLAY (3)**
Prerequisite: LSRC 376. Study of play as a phenomenon of growth, development, and psychological adjustment throughout the lifespan. Exploration of its ramifications for the individual, in relations to self-actualization, social norms, family and child-rearing practices, mental and physical health, integration with work and school patterns, social interaction, aging and retirement.

**464. RESEARCH IN RECREATION AND LEISURE (3)**
Prerequisite: LSRC 376. An investigation into the fields and methods of recreation and leisure research systems, including special techniques and concepts of research systems applicable to recreation and leisure services, processes and personnel.

**471. ORGANIZATION AND MANAGEMENT OF LEISURE SERVICES AND RECREATION (3)**
Prerequisite: LSRC 376 and Lower Division Writing Requirement. Principles of planning, directing and managing leisure service operations in a variety of settings. Included are a study of physical environment, personnel organization, financial organization, and administrative problem solving.

**475. THERAPEUTIC RECREATION PROCESS (3) (FALL ONLY)**
Prerequisites: LSRC 275, 375. An in-depth approach to therapeutic recreation assessment, individualized program planning, and documentation. Case studies will be utilized throughout the course.

**476. ORGANIZATION OF THERAPEUTIC RECREATION SERVICES (3) (FALL ONLY)**
Prerequisites: Lower Division Writing Requirement, LSRC 275, 375. An in-depth approach to therapeutic recreation philosophical concepts, program conceptualization, design, implementation, evaluation, and program accountability. Regular written assignments are required.

**480. RECREATIONAL TOURISM: ISSUES AND TRENDS (3)**
Prerequisites: LSRC 200 and 200L, or LSRC 270, or SOC 312, and Lower Division Writing Requirement. Study of the phenomena of domestic and international recreational tourism. Emphasis is on investigating and understanding the variables that impact recreational tourism and travel destination areas. Regular written assignments are required.

**490. SENIOR SEMINAR (3)**
Prerequisite: LSRC 464. An analytic approach to theories and concepts of leisure, play and principles of recreation as they relate to a senior project.

**494A-B-C. SUPERVISED INTERNSHIP (1-2-3) (Formerly 497)**
Prerequisite: Senior standing. Pre-enrollment with departmental approval is required (contact Recreation & Leisure Studies Office for details). A supervised internship in professional recreation settings. Credit/No Credit basis for grading.

**496A-Z. EXPERIMENTAL COURSES IN RECREATION AND LEISURE STUDIES (3)**
Experimental courses in Recreation and Leisure Studies with course content to be determined.

**498. FIELD ASSIGNMENT AND REPORTS (1-2)**
Prerequisite: Active, approved employment or service. Analysis and reports of the student’s performance; regular group meetings. An Academic Internship course.

**499. INDEPENDENT STUDY (1-3)**

**GRADUATE**

**570. FUTURES RESEARCH AND PLANNING FOR LEISURE SERVICES (3)**
An in-depth investigation into futures literature and research designs and methodologies and how they relate to recreation and leisure services planning for the future.

**580. SEMINAR IN TOURISM PLANNING: A CULTURAL AND INTERNATIONAL PERSPECTIVE (3)**
An analysis and evaluation of the impact of historical tourism planning trends and their influence on human services and quality of life issues. Advanced study of the application of contemporary tourism planning models.

**595A-Z. SPECIAL TOPICS (1-3)**

**602. THEORETICAL FOUNDATIONS OF LEISURE AND PLAY (3) (Formerly 502)**
An in-depth investigation into the theoretical foundations basic to the profession of leisure and play; and an analysis of current issues from the perspective of these diverse theoretical positions.

**608. CONSULTATION IN LEISURE SERVICES (3) (Formerly 508)**
Prerequisite: Course limited to students with supervisory experience in the field of recreation. Theory, analysis and application of concepts and strategies of consultation as applied to Leisure Service personnel working in field settings. In-depth exploration of the application of consulting techniques to practical situations.

**642. SEMINAR IN CURRENT ISSUES & TRENDS IN THERAPEUTIC RECREATION (3)**
Prerequisites: LSRC 602 and completion of undergraduate course work in Therapeutic Recreation. A comprehensive study and analysis of the issues and trends affecting the delivery of therapeutic recreation in clinical and community settings.
644. SEMINAR IN EVALUATION & DOCUMENTATION IN THERAPEUTIC RECREATION (3)
Prerequisites: LSRC 602 and completion of undergraduate coursework in Therapeutic Recreation. A comprehensive study and analysis of evaluation and documentation methods related to the delivery of therapeutic recreation services.

661. SEMINAR IN ADMINISTRATIVE PROBLEMS IN RECREATION (3) (Formerly 509)
Prerequisite: LSRC 471 or equivalent. Advanced study of contemporary problems involved in the administrative organization of leisure service agencies.

665. INTERORGANIZATIONAL STRATEGIES FOR LEISURE AGENCIES (3) (Formerly 510)
The study of leisure agencies and their relationships within communities, and through various levels of organization. Emphasis is on the strategies for sharing scarce resources.

684. ADVANCED RESEARCH METHOD AND DESIGN (3) (Formerly LEISURE STUDIES and RECREATION 504)
Prerequisite: LSRC 464 or equivalent. Application of research techniques to recreation and parks problems. Procedures in collection, analysis, and presentation of data; utilization of findings. Lecture-laboratory.

698. THESIS OR GRADUATE PROJECT (3-6) (Formerly 598)
Prerequisite: Classified graduate status and acceptance by a Thesis Committee. Planning, preparation and completion of a thesis or project on an advanced topic in the field of recreation.

699. INDEPENDENT STUDY (1-3) (Formerly 599)
Prerequisite: Consent of Graduate Adviser and Department Chair. Intensive investigation into the area of specialization.
LIBERAL STUDIES PROGRAM
(Interdisciplinary Major)
Director: Naomi H. Bishop

COLLEGE OF HUMANITIES
Program Office: Jerome Richfield Hall 240
Administrative Coordinator: Guadalupe Diaz
Phone: (818) 677-3300 Fax: (818) 677-4768
Website: http://www.csun.edu/~hflst005

ADVISORS: Fariba Farzan, Dean Elegado Sare, and Scott Tsuji

PROGRAM COMMITTEE: Naomi Bishop, George Dunne, Arlinda Eaton, Janice Eckmier, Sharon Klein, Joe Lewis, Judith Marti, Jennifer Matos, Evelyn McClave, Gerald Resendez, Sue Sears, Gerry Simila, James Sobredo, Ann Watkins

DEGREE OFFERED: B. A.

THE MAJOR: The Liberal Studies program is a broad undergraduate liberal arts major leading to the B.A. degree. It is an interdisciplinary major with a balance of studies in the language arts, natural sciences, mathematics, social sciences, humanities, visual arts, and performing arts. Courses are drawn from course offerings by departments throughout the university.

There are three Liberal Studies degree options, two for students preparing to be elementary teachers and one for students who seek a general liberal arts program.

OPTION ONE—PRE-CREDENTIAL OPTION, is designed for students who anticipate a career in elementary school teaching and plan to seek a post-baccalaureate teaching credential. This option integrates mastery of subject matter and pedagogy throughout the four years leading to a BA degree in Liberal Studies and awarded simultaneously with a Multiple Subject Credential (CLAD Emphasis) or a Level I Preliminary Education Specialist Credential (Mild/Moderate Disabilities). Students must be eligible for GE writing and mathematics in order to be accepted into the Integrated Program. Students will remain with their cohort throughout their four-year program of study, which includes summer classes.

OPTION TWO—INTEGRATED TEACHER EDUCATION PROGRAM, is a structured cohort program that begins in the freshman year and prepares students for careers in elementary school or special education teaching. Students will need to seek a post-baccalaureate teaching credential upon graduation. Students in Option Two have the choice of either a Preliminary Multiple Subject Credential (CLAD Emphasis) for elementary classroom teaching or a Level I Preliminary Education Specialist Credential with a specialization in Mild/Moderate Disabilities for teaching special education students.

OPTION THREE: General Studies leads to a variety of career options such as business, government, human services and almost any career requiring a liberal arts degree. Students in Option Three often pursue graduate degrees in Law, Public Administration, Business Administration, and with supplemental courses in Medicine. Students interested in Option Three should discuss academic and career planning with their Liberal Studies Advisor.

ACADEMIC ADVISEMENT: Advisement is a critical part of the Liberal Studies Program. In order to complete the major in the most efficient manner, students should see an advisor early in their programs. Transfer students from community colleges and other universities should seek advisement early in their programs. Transfer students from community colleges or other universities should seek advisement early in their programs. CSUN students should see an advisor as soon as they begin to consider a Liberal Studies major.

APPOINTMENTS NEEDED: Advisors are generally available by appointment only. Please call (818) 667-3300 to schedule an appointment. Walk-in appointments and telephone consultations are reserved for emergencies.

APPROVAL OF TRANSFER COURSES AND COURSE SUBSTITUTIONS: Students must obtain approval from an advisor in order to substitute courses from other universities or community colleges for courses in the major or to substitute a CSUN course for those prescribed in the major. Please see an advisor before selecting a course not already approved for the major.

FILING FOR GRADUATION: See an advisor at least three semesters before you plan to graduate. A graduation checklist is available from the Liberal Studies office.

OPTION ONE: PRE-CREDENTIAL LIBERAL STUDIES
Option One is designed for students interested in careers as elementary school teachers. Traditionally, elementary school teachers function in self-contained classrooms and teach a variety of subjects. The Liberal Studies major provides students with a broad undergraduate education to prepare them to teach “multiple subjects,” a term used by teacher credential programs. Therefore, students take courses in the language arts, natural sciences, mathematics, social
INTEGRATED TEACHER EDUCATION PROGRAM

OPTION TWO:

2000-2002 LIBERAL STUDIES 409

Students interested in teaching at the elementary school level and qualifying for student teaching or earning a preliminary teaching credential from the State of California must demonstrate subject matter competence in the areas typically taught during the elementary school years. Students may demonstrate their subject matter competence by either completing an approved Elementary Subject Matter Preparation Program, like the California State University, Northridge Liberal Studies Program’s Elementary Subject Matter Preparation Program, or by passing a standard test known as the Multiple Subjects Assessment for Teachers (MSAT) test given by the State of California. To complete the California State University, Northridge Elementary Subject Matter Preparation Program you must complete all the requirements for the B.A. degree in Liberal Studies and meet a set of additional requirements. Only completing the requirements for the B.A. will not meet the requirements of the Elementary Subject Matter Preparation Program. Please see an advisor for information on the requirements necessary to complete the California State University, Northridge Elementary Subject Matter Preparation Program.

OPTION TWO:
INTEGRATED TEACHER EDUCATION PROGRAM

Students enter the Integrated Teacher Education Program (ITEP) in their freshman semester and remain with this student cohort throughout the entire degree program. The program is carefully designed as an approved Elementary Subject Matter Preparation Program. It fulfills the General Education and Title V requirements for a baccalaureate degree from CSUN. Students must complete all requirements for the B.A. degree as well as meet assessment requirements for determining subject matter competence in order to receive certification of subject matter competency as required by the California Commission on Teacher Credentialing. Completing the requirements for the B.A. alone will not result in subject matter certification. The ITEP is also designed to meet the requirements for a Multiple Subject Preliminary Credential (CLAD Emphasis) or a Level I Preliminary Education Specialist Credential (Mild/Moderate Disabilities). Students who successfully complete the assessment requirements for subject matter competency and meet all additional requirements for the credential will be recommended for a preliminary credential. Students in ITEP should consult with their advisor for information on all requirements in the program. Students who are unable to remain with the cohort may remain a Liberal Studies major by changing to Option One or Three.

COURSE REQUIREMENTS

All Liberal Studies Options incorporate the requirements for GENERAL EDUCATION, TITLE V, and LOWER DIVISION WRITING REQUIREMENT. Students should consult a Liberal Studies Advisor for possible substitutions or alternatives to the specific courses listed below. Transfer students should contact the Liberal Studies office to arrange a transcript evaluation and plan a program of study.

OPTION ONE - PRE-CREDENTIAL LIBERAL STUDIES

I. LANGUAGE ARTS (24-25 UNITS)

A. Basic Skills (9 Units)
   1. Freshman Composition (3 units)
      Select one course from:
      CHS 155 Freshman Composition ............3
      ENGL 155 Freshman Composition ............3
      PAS 155 Freshman Composition ............3
   2. Critical Reasoning (3-4 units)
      Select one course from:
      AAS 201 Race, Racism and Critical Thinking ....3
      CHS 202 Race, Racism and Critical Thinking ....3
      PAS 202 Race, Racism and Critical Reasoning ....3
      PHIL 100 General Logic .................4
      PHIL 200 Critical Reasoning ............3

   3. Speech Communication (3 units)
      Select one course from:
      AAS 151 Fundamentals of Public Speaking ....3
      CHS 151 Freshman Speech Communication ....3
      ENGL 225 Introduction to Literature ..........3
      ENGL 258 Major English Writers I ............3
      ENGL 259 Major English Writers II ............3
      ENGL 275 Major American Writers ............3
      FLIT 245 Introduction to German Literature ....3
      FLIT 295A Masterpieces of European Lit. I ....3
      FLIT 295B Masterpieces of European Lit. II ....3
      PAS 245 African-American Lit. Since 1930 ....3

   2. Upper Division Literature (6 units)
      a. Select one course from:
         ENGL 300 Contemporary Literature ............3
         ENGL 316 Shakespeare ..................3
         ENGL 364 The Short Story ................3
         ENGL 431 Images of Women in Literature ....3
         FLIT 341 Twentieth Century European Lit. ....3
      b. Select one course from:
         AAS 321 Asian American Fiction ............3
         CHS 380 Chicano Literature ...............3
         CHS 381 Contemporary Chicana Literature ....3
         ENGL 310 History of African-American Writing ....3
         ENGL 314 Native American Indian Literature ....3
         PAS 344 Literature of the Caribbean and African Experience ........3
         PAS 346 Contemporary Black Female Writers ....3

   C. Grammar (3 Units)
      ENGL 302 Introduction to Modern Grammar ....3

   D. Upper Division Composition (3 Units)
      Note: COMS 321 carries the prerequisite of COMS 151 or 225.
      Select one course from:
      ENGL 305 Intermediate Expository Writing ....3
      ENGL 406 Advanced Composition for Teachers ....3
COMS 321  Rhetorical Discourse ........................3

E. Foreign Language (0 Units)
   Students must demonstrate proficiency at the level equivalent to completion of two semester of college foreign language study in a single language other than English. This requirement may be met in one of the following ways:
   a.) Completion of two semesters (total of 6-8 semester units) of coursework in learning a language other than English (including American Sign Language). A grade of "C" or better or the equivalent must be earned in each course, verified by a transcript from a regionally accredited college or university.
   b.) A score on a College-level Examination Program (CLEP) examination in a language other than English administered by the College Board. The minimum score of "41" (Spanish), "40" (German) or "39" (French).
   c.) Three years of secondary school course work in a single language other than English. The coursework must be taken in grades 9 - 12 with an overall average of "B" or better.
   d.) Passage of an Advanced Placement Examination in a language other than English with a score of 3 or higher.
   e.) Passage of a placement examination in a language other than English administered by the CSUN Department of Modern and Classical Languages and Literatures. The student must pass at a level that secures admission to the second-year college course in the same language.

II. MATHEMATICS AND NATURAL SCIENCE (19 UNITS)

A. Mathematics (7 Units)
   1. The Real Number System (3 units)
      MATH 210 Basic Number Concepts & Lab............3
   2. Geometry, Probability, and Statistics (4 units)
      MATH 310/L Basic Concepts of Geometry,
      Probability & Statistics & Lab............3/1

B. Biology (4 Units)
   Select either a or b:
   a. BIOL 100/L Introductory Biology & Lab .......3/1
   b. BIOL 101/L General Biology.....................3/1

C. Physical Science (4 Units)
   PHSC 170 Introduction to Physical Science .........4

D. Earth Science (4 Units)
   ESCI 300/L Foundations of Earth Science ..........3/1

III. SOCIAL SCIENCE (21 UNITS)

A. World (9 Units)
   1. World Geography (3 units)
      GEOG 150 World Geography ........................3
   2. Roots of European Society and Culture (3 units)
      Select one course from:
      MCLL 150 Gateways to Western Civilization:
      Greece and Rome ............................3
      MCLL 350 The Classical World and
      Western Civilization ........................3
      HIST 150 Western Civilization I .................3
      HIST 151 Western Civilization II .................3
      HIST 302 Western Cultural Heritage,............3

   Modern Age ...................................3
   HIST 303 Themes in Western Civilization
   Before 1500 ................................3
   HIST 304 Themes in Western Civilization
   After 1500 ..................................3

3. African, Asian, and Latin American Society and
   Culture (3 units)
   Select one course from:
   CHS 366 Women in Latin America .................3
   CHS 401 Pre-Columbian Meso-American
   Civilization ..................................3
   GEOG 190 Pacific Asia: A Cultural Geography ....3
   GEOG 322 Geography of Latin America ..........3
   GEOG 325 Geography of Southeast Asia .........3
   either
   HIST 145 African Civilization to
   Modern Times ..............................3
   or
   PAS 171 Classical African Civilization ............3
   (HIST 145 is the same as PAS 171)
   HIST 161 Survey of the History of
   Latin America ................................3
   HIST 185 Civilization of the Middle East .......3
   HIST 191 History of Eastern Civilization I ....3
   HIST 192 History of Eastern Civilization II ....3
   PAS 226 Traditional African Cultures ............3
   URBS 350 Cities of the Third World .............3

B. United States (6 Units)
   1. History (3 units)
      Select one course from:
      CHS 245 History of the Americas ...............3
      HIST 270 The United States to 1865 .............3
      PAS 271 African-American History to 1865 ....3
      HIST 371 Problems in American History
      1865 to Present ................................3
      PAS 272 African-American History to 1865 ....3
      PAS 272 African-American History
      Since 1865 ....................................3
   2. Government (3 units)
      Select one course from:
      CHS 260 Constitutional Issues & the Chicano ..3
      CHS 445 History of the Chicano .................3
      PAS 161 American Political Institutions:
      A Black Perspective ........................3
      POLS 155 American Political Institutions ....3
      POLS 355 American National, State, and
      Local Government .........................3

C. California (3 Units)
   Select one course from:
   GEOG 330 Geography of California ..............3
   HIST 488 California ................................3

D. Integrative Social Science (3 Units)
   Select one course from:
   AAS 340 Asian American Women ................3
   GEOG 340 Economic Geography ..................3
   GEOG 481 Political Geography ..................3
   SOC 305 Culture and Personality ................3
   SOC 312 American Society .....................3
   SOC 345 Social Psychology .....................3
   SOC 350 Population Dynamics ..................3
   WS 300 Women as Agents of Change ............3

Liberal Studies students are considered to have met the prerequisite for the Sociology courses listed above upon completion of the courses in section III.A. and the prerequisite for the Geography courses upon completion of section III.A.1.
IV. HUMANITIES & VISUAL & PERFORMING ARTS (12 UNITS)

A. Humanities (6 Units)

Note: No more than one of the two courses selected in section IV.A. below may be taken in CHS or PAS.

1. Philosophy (3 units)

Note: PHIL 100 or 200 (section I.A.2.) must be completed prior to enrollment in PHIL 310.

Select one course from:

- CHS 351 Survey of Mexican Philosophical Thought
- PHIL 150 Introduction to Philosophical Thought
- PHIL 310 Philosophical Problems
- PHIL 330 Philosophy of Science

2. Ethics, Values, and Religion (3 units)

Select one course from:

- CHS 350 Religion and Chicano Society
- PAS 382 Traditional Religions of Africa
- PHIL 160 Introduction to Philosophy: Society and Values
- RS 150 World Religions
- RS 300 Religion and Society
- RS 345 Christianity
- RS 361 Contemporary Ethical Issues
- RS 367 Modern Judaic Heritage
- RS 380 Asian Religions: Communal Traditions and Transitions

B. Visual and Performing Arts (6 Units)

Select one course each from any two of the three categories listed below.

NOTES:
(1) CHS 111. The Chicano and the Arts may be applied in categories 1, 2, or 3 of section IV.B. below.
(2) At least one of the two courses in this section must be in the upper division.
(3) No more than one of the two courses in this section may be taken in CHS or PAS.

1. Art

- ART 100 Introduction to Art Processes
- ART 205 Landmarks of Art
- ART 305 Art Today
- ART 110 History of Western Art; Pre-History to the Middle Ages
- ART 111 History of Western Art, Renaissance to the Present
- ART 112 Survey of Non-Western Art
- ART 401 Arts of Native North America

2. Music

- CHS 310 Regional Music of Mexico
- MUS 105 Understanding Music: Western Traditions
- MUS 107 Music Today
- MUS 310 Understanding World Cultures
- MUS 322 Music Through Music
- PAS 332 African-American Music

3. Theatre

- PAS 246 Introduction to African-American Theatre
- TH 110 Plays and Players
- TH 111 Actors and Acting
- TH 310 Theatre in Performance

Interdisciplinary Humanities

One of the following courses may be applied to any of the above sections in component IV.

Note: Students who select Humanities as a concentration must take HUM 105 to satisfy one of the requirements in section IV.A. and HUM 106 to satisfy one of the requirements in section IV.B. All other students may use only one of these courses in this component.

V. THE CHILD (23 UNITS)

A. Visual and Performing Arts and the Child (9 Units)

Select any three courses from:

- ART 380 Children's Art
- CHS 461 Children's Songs and Games
- MUS 361 Music Literature for Children
- KIN 314 Creative Dance for Children
- TH 371 Creative Drama

B. Children's Literature (3 Units)

- ENGL 428 Children's Literature

C. Physical Education for Children (3 Units)

- PAS 382 Physical Education for Children

D. The Ethnic Child (3 Units)

Select one course from:

- AAS 450 Asian American Child and the Schools
- CHS 430 The Chicano Child
- PAS 420 The Black Child

E. Child Development (3 Units)

- FES 330 Child Growth and Development I

F. Field Experience in the Public School (2 Units)

Select one course from:

- ESCI 391 Field Experience in Earth Science of the Public Schools
- FES 497BEE Supervised Field Study
- KIN 498LS Field Experience in Physical Education for Elementary School-Age Children
- MATH 391 Field Experience in the Mathematics of California Schools
- MUS 366 Early Field Experience in Music Education
- SPAN 392 Field Experience in Spanish
- TH 472 Field Experience in Creative Drama

VI. CONCENTRATION (12 UNITS)

Students are required to complete a 12 unit concentration in one of the following areas. See a Liberal Studies Advisor for the specific courses required within each concentration.

A. African-American Studies
B. American Sign Language
C. Art
D. Biology
E. Chicano Studies
F. Earth Science
G. English as a Second Lang.
H. General Science
I. History
J. Human Geography
K. Humanities
L. Life Science

OPTION TWO: INTEGRATED TEACHER EDUCATION PROGRAM for freshmen requires that students follow the schedule and sequence of classes listed below. Students will join a cohort upon entering the Program in their freshman year and
will remain with that cohort throughout their course of study. Students will select a 12-unit concentration from the list of possible concentrations listed for Option One.

The Integrated Teacher Education program incorporates the requirements for GENERAL EDUCATION, TITLE V, LOWER DIVISION WRITING REQUIREMENT, SUBJECT MATTER PREPARATION, PRELIMINARY MULTIPLE SUBJECT CREDENTIAL (CLAD (Crosscultural, Language, and Academic Development) Emphasis), AND LEVEL I PRELIMINARY EDUCATION SPECIALIST CREDENTIAL (Mild/Moderate Disabilities). In the course of the program, students will be responsible for completing the following examinations: Upper Division Writing Proficiency, CBEST (California Basic Educational Skills Test), and RICA (Reading Instruction Competence Assessment). (Pending final approval).

**YEAR ONE: FIRST SEMESTER (16 UNITS)**

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**YEAR ONE: SECOND SEMESTER (16 UNITS)**

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<td>CH S 201</td>
<td>3</td>
</tr>
<tr>
<td>PAS 245</td>
<td>3</td>
</tr>
</tbody>
</table>

**SUMMER ONE: (0 UNITS)**

Complete Foreign Language Requirements (See Option I, E).

**YEAR TWO: FIRST SEMESTER (15 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR S 296A/F</td>
<td>3</td>
</tr>
<tr>
<td>PHSC 170</td>
<td>4</td>
</tr>
<tr>
<td>MATH 210</td>
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</table>

Select one course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH S 260</td>
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</tr>
<tr>
<td>PAS 161</td>
<td>3</td>
</tr>
<tr>
<td>POLS 155</td>
<td>3</td>
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</table>

Select one course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 151</td>
<td>3</td>
</tr>
<tr>
<td>CHS 151</td>
<td>3</td>
</tr>
<tr>
<td>COMS 151</td>
<td>3</td>
</tr>
<tr>
<td>COMS 225</td>
<td>3</td>
</tr>
<tr>
<td>PAS 151</td>
<td>3</td>
</tr>
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</table>

**YEAR TWO: SECOND SEMESTER (16 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR S 296B/F</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 100/L</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 301</td>
<td>3</td>
</tr>
</tbody>
</table>

One course from an approved Concentration (see Option One for choices).

**SUMMER TWO: (7 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 396LLS</td>
<td>1</td>
</tr>
<tr>
<td>ART 396LLS</td>
<td>1</td>
</tr>
<tr>
<td>TH 396LLS/LLS</td>
<td>1</td>
</tr>
<tr>
<td>KIN 396LLS</td>
<td>1</td>
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</table>

Select one course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 450</td>
<td>3</td>
</tr>
<tr>
<td>CHS 430</td>
<td>3</td>
</tr>
<tr>
<td>PAS 420</td>
<td>3</td>
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**YEAR THREE: FIRST SEMESTER (16 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENGL 305</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 499A</td>
<td>1</td>
</tr>
<tr>
<td>LING 417</td>
<td>3</td>
</tr>
<tr>
<td>SPED 400</td>
<td>3</td>
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</table>

One course from chosen Concentration.

Only Multiple Subject Credential students will take:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPC 314</td>
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</tr>
</tbody>
</table>

Only Preliminary Education Specialist Credential students will take:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 401A</td>
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</tr>
</tbody>
</table>

**YEAR THREE: SECOND SEMESTER (15 - 18 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 310/L</td>
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<tr>
<td>ESCI 300/L</td>
<td>3</td>
</tr>
<tr>
<td>E ED 475</td>
<td>3</td>
</tr>
</tbody>
</table>

One course from chosen Concentration.

Only Preliminary Education Specialist Credential students will take:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 402A</td>
<td>3</td>
</tr>
</tbody>
</table>

**SUMMER THREE: (8 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG/HIST 476</td>
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</tr>
<tr>
<td>E ED 476</td>
<td>2</td>
</tr>
<tr>
<td>E ED 477A</td>
<td>3</td>
</tr>
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</table>

**YEAR FOUR: FIRST SEMESTER (13-16 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>E ED/SPED 578A</td>
<td>6</td>
</tr>
<tr>
<td>E ED/SPED 579</td>
<td>1</td>
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<tr>
<td>ENGL 428</td>
<td>3</td>
</tr>
<tr>
<td>E ED 477B</td>
<td>3</td>
</tr>
</tbody>
</table>

Only Preliminary Education Specialist Credential students will take:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 504MM</td>
<td>3</td>
</tr>
</tbody>
</table>

**YEAR FOUR: SECOND SEMESTER (13 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>KIN 470/L</td>
<td>3</td>
</tr>
<tr>
<td>E ED/SPED 579</td>
<td>1</td>
</tr>
<tr>
<td>ELPS 303</td>
<td>3</td>
</tr>
</tbody>
</table>
I. LANGUAGE ARTS (24 UNITS)

requires the following courses:

GENERAL LIBERAL STUDIES

OPTION THREE:

A. Basic Skills (9 Units)

1. Freshman Composition (3 units)
   Select one course from:
   - CHS 151 Freshman Composition..............3
   - ENGL 151 Freshman Composition..............3
   - PAS 151 Freshman Composition..............3

2. Critical Reasoning (3 units)
   Select one course from:
   - AAS 201 Race, Racism & Critical Reasoning....3
   - CHS 201 Race, Racism & Critical Reasoning....3
   - PAS 201 Race, Racism & Critical Reasoning....3
   - PHIL 100 General Logic..........................4
   - PHIL 200 Critical Reasoning..................3

3. Speech Communication (3 units)
   Select one course from:
   - AAS 151 Fundamentals of Public Speaking.....3
   - CHS 151 Freshman Speech Communication.....3
   - COMS 151 Fundamentals of Public Speaking.....3
   - COMS 225 Strategies of Argumentation........3
   - PAS 151 Freshman Speech Communication.....3

B. Literature (9 Units)

1. Introduction to Literature (3 units)
   Select one course from:
   - AAS 220 Survey of Asian American Literature..........................3
   - CHS 201 Survey of Mexican Literature in Translation.................3
   - ENGL 255 Introduction to Literature................3
   - ENGL 258 Major English Writers I..............3
   - ENGL 259 Major English Writers II..............3
   - ENGL 275 Major American Writers...............3
   - MCLL 245 Introduction to German Literature....3
   - MCLL 295A Masterpieces of European Literature I..................3
   - MCLL 295B Masterpieces of European Literature II..................3
   - PAS 245 African-American Literature Since 1930..............3

2. Upper Division Literature (6 units)
   a. Select one course from:
      - ENGL 300 Contemporary Literature..............3
      - ENGL 316 Shakespeare...........................3
      - ENGL 364 The Short Story......................3
      - ENGL 431 Images of Women in Literature.......3
      - MCLL 341 Twentieth Century European Literature..................3
   b. Select one course from:
      - AAS 321 Asian American Fiction..............3
      - CHS 380 Chicano Literature....................3
      - CHS 381 Contemporary Chicana Literature.....3
      - ENGL 311 History of African-American Writing..........................3
      - ENGL 314 Native American Indian Literature..........................3

II. MATHEMATICS AND NATURAL SCIENCE (20-23 UNITS)

A. Mathematics (3-5 Units)
   Select one course from:
   - MATH 103 Mathematics for Business Applications...........3
   - MATH 106 Principles of Mathematics................3
   - MATH 131 Mathematical Ideas..........................3
   - MATH 140 Introductory Statistics...................4
   - MATH 150A Mathematical Analysis I...................5
   - MATH 255A Calculus I..................................3
   - MATH 331 Mathematical Explorations................3

B. Biology (4 Units)
   Select either a or b:
   - a. BIOL 100/L Introductory Biology & Lab........3/1
   - b. BIOL 101/L General Biology & Lab.............3/1

C. Physical Science (4 Units)
   PHSC 170 Introduction to Physical Science...........4

D. Earth Science or Astronomy (4 Units)
   Select one course with its associated laboratory from:
   - ASTR 152 Elementary Astronomy.....................3
   and
   - ASTR 154L Observational Astronomy................1
   and
   - GEOL 101 Physical Geology.........................3
   and
   - GEOL 102 Physical Geology Laboratory............1
   and
   - GEOL 122 The World Ocean...........................3
   and
   - GEOL 123 World Ocean Laboratory..................1
   and
   - GEOL 300 Environmental Geology...................3
   and
   - GEOL 301 Environmental Geology Laboratory.....1

E. Applied Science (5-6 Units)

1. Technology (3 units)
   Select one course from:
   - COMP 100 Computers: Their Impact and Use...........3
   - EE 100 The Technological World...................3

2. Health Science (2-3 units)
   Select one course from:
   - HSCI 131 Health and Society.....................2
   - HSCI 231 Women and Health.......................3
III. SOCIAL SCIENCE (21 UNITS)

A. World (9 Units)
1. World Geography (3 units)
   GEOG 150 World Geography .........................3
2. European Society and Culture (3 units)
   Select one course from:
   MCLL 150 Gateways to Western Civilization:
      Greece and Rome ..................................3
   MCLL 350 The Classical World and
      Western Civilization ..................................3
   HIST 150 Western Civilization I ....................3
   HIST 151 Western Civilization II ....................3
   HIST 302 Western Cultural Heritage: Modern Age ........3
   HIST 303 Themes in Western Civilization
      Before 1500..................................3
   HIST 304 Themes in Western Civilization
      After 1500..................................4

3. African, Asian, and Latin American Society and
   Culture (3 units)
   Select one course from:
   CHS 366 Women in Latin America ....................3
   CHS 401 Pre-Columbian Meso-American
      Civilizations .....................................3
   GEOG 190 Pacific Asia: A Cultural Geography ...3
   GEOG 322 Geography of Latin America .........3
   GEOG 325 Geography of Southeast Asia .........3
   either
   HIST 145 African Civilization to
      Modern Times ....................................3
   or
   PAS 171 Classical African Civilization ..........3
   (HIST 145 is the same as PAS 171)
   HIST 161 Survey of the History of
      Latin America..................................3
   HIST 185 Civilization of the Middle East .......3
   HIST 191 History of Eastern Civilization I ....3
   HIST 192 History of Eastern Civilization II ....3
   PAS 226 Traditional African Cultures ............3
   URBS 350 Cities of the Third World ...............3

B. United States (6 Units)
   Note: Of the two courses selected in sections B.1. and
   B.2. below, one course must be taken from HIST or
   POLS and one course must be taken from CHS or PAS.
1. History (3 units)
   Select one course from:
   CHS 245 History of the Americas ..................3
   HIST 270 The United States to 1865 ...............3
   HIST 271 The United States since 1865 ..........3
   HIST 371 Problems in American History:
      1865 to Present ................................3
   PAS 271 African-American History to 1865 ....3
   PAS 272 African-American History since 1865 ...3

2. Government (3 units)
   Select one course from:
   CHS 260 Constitutional Issues & the Chicano ...3
   CHS 445 History of the Chicano ....................3
   PAS 161 American Political Institutions:
      A Black Perspective ............................3
   POLS 155 American Political Institutions .........3
   POLS 355 American National, State, and
      Local Government .............................3

C. California (3 Units)
   Select one course from:
   GEOG 330 Geography of California ..................3
   HIST 488 California ...................................3

D. Integrative Social Science (3 Units)
   Select one course from:
   AAS 340 Asian American Women ....................3
   GEOG 340 Economic Geography ......................3
   GEOG 481 Political Geography ......................3
   SOC 305 Culture and Personality ....................3
   SOC 312 American Society .........................3
   SOC 345 Social Psychology .........................3
   SOC 350 Population Dynamics ......................3
   WS 300 Women as Agents of Change ................3
   Liberal Studies students are considered to have met the
   prerequisite for the Sociology courses listed below upon
   completion of the courses in section III.A. and the
   prerequisite for the Geography courses upon
   completion of section III.A.

IV. HUMANITIES & VISUAL & PERFORMING ARTS (12 UNITS)

A. Humanities (6 Units)
   Note: No more than one of the two courses selected in
   section IV.A. below may be taken in CHS or PAS.
1. Philosophy (3 units)
   NOTE: PHIL 100 or 200 (section I.A.2.) must be
   completed prior to enrollment in PHIL 310.
   Select one course from:
   CHS 351 Survey of Mexican
      Philosophical Thought .......................3
   PHIL 150 Introduction to Philosophical
      Thought ..........................................3
   PHIL 310 Philosophical Problems ................3
   PHIL 330 Philosophy of Science ..................3

2. Ethics, Values, and Religion (3 units)
   Select one course from:
   CHS 350 Religion and Chicano Society ..........3
   PAS 382 Traditional Religions of Africa .........3
   PHIL 160 Introduction to Philosophy:
      Society and Values ..........................3
   RS 150 World Religions ..........................3
   RS 300 Religion and Society ......................3
   RS 345 Christianity ................................3
   RS 361 Contemporary Ethical Issues .............3
   RS 376 Modern Judaic Heritage ..................3
   RS 380 Asian Religions: Communal
      Traditions and Transitions ..................3

B. Visual and Performing Arts (6 Units)
   Select one course from any two of the three
categories listed below.
   NOTES:
   (1) CHS 111: The Chicano and the Arts may be applied
      in categories 1, 2, or 3 of section IV.B. below.
   (2) At least one of the two courses in this section must
      be in the upper division.
   (3) No more than one of the two courses in this section
      may be taken in CHS or PAS.
1. Art
   ART 100 Introduction to Art Processes ............3
   ART 205 Landmarks of Art .........................3
   ART 305 Art Today ..................................3
   ART 110 History of Western Art, Pre-History
      to the Middle Ages ..........................3
   ART 111 History of Western Art,
      Renaissance to the Present .................3
   ART 112 Survey of Non-Western Art .............3
   ART 401 Arts of Native North America ..........3

2. Music
   CHS 310 Regional Music of Mexico ...............3
   MUS 105 Understanding Music:
      Western Traditions ..........................3
MUS 107 Music Today ..........................................3
MUS 310 Understanding World Cultures
Through Music .............................................3
PAS 332 African-American Music ......................3

3. Theatre
PAS 246 Introduction to African-American
Theatre .........................................................3
TH 110 Plays and Players ..................................3
TH 111 Actors and Acting ..................................3
TH 310 Theatre in Performance .........................3

Interdisciplinary Humanities
One of the following courses may be applied to any of the
above sections in component IV.

Note: Students who select Humanities as a concentration
must take HUM 105 to satisfy one of the requirements in
section IV.A. and HUM 106 to satisfy one of the require-
ments in section IV.B. All other students may use only one
of these courses in this component.

HUM 105 Cultural Eras in Humanities I .............3
HUM 106 Cultural Eras in Humanities II ............3

V. INTERDISCIPLINARY CONCENTRATION (12 UNITS)
Students are required to complete a 12 unit
interdisciplinary concentration in one of the following
areas. See a Liberal Studies Advisor for the specific
courses required within each concentration.

A. African Studies  I. Gerontology
B. African American Studies  J. Human Sexuality
C. American Indian Studies  K. Humanities
D. Asian Studies  L. Jewish Studies
E. Chicano Studies  M. Physical Science
F. Classical Greek and
   Roman Civilization  N. United States Studies
   O. Urban Studies
G. Earth Science  P. Women’s Studies
H. General Science

VI. DISCIPLINARY MINOR (UNITS VARY)
Select a university-approved and department-certified
minor (as described in the University catalog) from one of
the single-discipline departments listed below.

Note: Courses taken to fulfill requirements in the other
components of the major may be double-counted to meet
requirements in the minor.

Anthropology  Japanese
Art  Linguistics
Biology  Mathematics
Chemistry  Philosophy
Classics  Physics
Computer Science  Political Science
Economics  Psychology
English  Religious Studies
French  Russian
Geography  Sociology
Geology  Spanish
German  Communication Studies
Italian  Theatre

OPTION ONE:
Pre-Credential Option
TOTAL UNITS IN MAJOR: 111-112
GENERAL EDUCATION
General Education courses are included in the
Liberal Studies major.

TITLE 5
Title 5 courses are included in the Liberal Studies major.

ADDITIONAL UNITS: 10-14
TOTAL UNITS REQUIRED FOR DEGREE: 124 UNITS

OPTION TWO:
Integrated Teacher Education Program (ITEP)
TOTAL UNITS FOR B.A. DEGREE/ CREDENTIAL
(135 for Multiple Subject Credential; 141 for Preliminary
Education Specialist (Mild/Moderate Disabilities) Credential)

GENERAL EDUCATION
General Education courses are included in the ITEP.

TITLE 5
Title 5 courses are included in the ITEP.

ADDITIONAL UNITS (NONE)
TOTAL UNITS REQUIRED FOR B.A. DEGREE IN LIBERAL
STUDIES/ MULTIPLE SUBJECT OR PRELIMINARY EDUCATION SPE-
CIALIST (MILD/MODERATE DISABILITIES)
CREDENTIAL: 135-141

OPTION THREE
General Option
TOTAL UNITS IN MAJOR
(89-92 units plus minor)
GENERAL EDUCATION
General Education courses are included in the Liberal
Studies major.

TITLE 5
Title 5 courses are included in the Liberal Studies major.

ADDITIONAL UNITS: varies
TOTAL UNITS REQUIRED FOR A B.A. DEGREE: 124
LINGUISTICS PROGRAM
(Interdisciplinary Major and Minor; Master’s degree)

COLLEGE OF HUMANITIES
Phone: (818) 677-3453

COORDINATOR: Sharon Klein, English.

PROGRAM COMMITTEE: Daniele Dibie, Continuing Education; Alan Harris, Speech Communication; Barbara Hawkins, Elementary Education; Barbara Kroll, English; Rebecca Litke, Speech Communication; Evelyn McClave, English; Rei Noguchi, English; Sabrina Peck, Elementary Education; Wendy Snyder, Foreign Languages; Christine Strike-Roussos, Communicative Disorders; Elizabeth Weber, Communicative Disorders.

DEGREES OFFERED: B.A. and M.A. Major in Linguistics; Minor in Linguistics; and an ESL Certificate.

ACADEMIC ADVISING: Advising is done by the coordinator during office hours and by appointment. Call the above numbers for further information.

THE MAJOR: Linguistics studies human language, seeking to define the nature of human language, to establish its relationship to human thought, to discover what distinguishes human language from other forms of communication – human and non-human, to understand how children develop a language and acquire additional ones, to understand the ways in which languages may differ from one another, and to describe how human beings use language, in context, to engage in all the activities also deemed “human.”

The Linguistics Major is presently an Upper Division Major; there are no Lower Division required courses. Students are encouraged to complete their Lower Division GE work and to pursue study in languages other than their native language in preparation for their work in Linguistics. Entering freshmen who are interested in Linguistics should consult with the Coordinator/Advisor.

CAREERS: The questions that linguistics teaches students to ask about language are related to a wide range of fields and professions, including law, psychology, education, computer science and technology, anthropology, and sociology, to name a few. Students who earn bachelor’s degrees in linguistics may select to prepare for and seek careers in any of these fields, or may pursue advanced degrees in linguistics and related fields. The ESL Minor/Certificate and the MA TESL Track prepare students – each at different levels, and with different applications – to teach English to speakers of other languages.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

REQUISITE COURSES (24 UNITS)

1. Introduction to Linguistics (3 units)
   Select one of the following courses:
   ANTH 310 Anthropological Linguistics .........................3
   ENGL 301 Language and Linguistics .............................3
   COMS 420 Language and Symbolic Processes .................3

2. Core courses in Linguistics (15 units)
   LING 402 Phonetics and Phonology .............................3
   LING 404 Syntax ..................................................3
   LING 405 Child Language Acquisition ..........................3
   LING 408 Semantics and Pragmatics ............................3
   ANTH 441 Sociolinguistics: Problems in Language and Culture ..................................................3

3. Studies in a Foreign Language (6 units)
   Students should consult with the Linguistics Coordinator/Advisor concerning the completion of this requirement.

*Note: Students selecting ANTH 310 as their introductory course may apply this selection to their GE requirements in section F. They may do the same with one course in Foreign Language Study, for a total of 6 units, shared between the Major and GE.

TRACKS

A. THE ELECTIVE TRACK (15-30 UNITS)

In consultation with the Coordinator/Advisor, a student will select coursework from the following set. Some courses in other Departments or Programs may have prerequisites.

Students should seek advising from the appropriate advisor in that Department as they select courses.

APPROVED ELECTIVE COURSES (15 UNITS)

ANTH 476D Field Study: Linguistics ..........................3
ANTH 490D Seminar in Anthropology: Linguistics ..........................3
CHS 433 Language Acquisition of the Chicano and ESL Speakers ..................3
CHS 482 Language of the Barrio ....................................3
CD 340 Phonetics ..................................................3
CD 442 Speech Science ...............................................3
CD 462 Language Development and Language Disorder ..................3
COMP 232 Concepts of Programming Languages ..................3
COMP 310 Automata, Languages, & Computation ..................3
COMP 332 Programming Language Semantics ..................3
ENGL 400 History of the English Language ..................3
ENGL 403 Transformational Generative Grammar ..................3
ENGL 405 Language Differences and Language Change ..................3
FREN 389 French Phonetics .........................................3
FREN 400 Structure of the French Language ..................3
ITAL 305 Structure of the Italian Language ..................3
LING 407 Language Varieties ........................................3
LING 427 Languages in Contact ......................................3
LING 430 Linguistic Introduction to Cognitive Science ..................3
PAS 395 Bilingualism in the African-American Community ..................3
PHIL 330 Philosophy of Science ....................................3
PHIL 331 Symbolic Logic .............................................4
PHIL 432 Semantic Theory .............................................3
PHIL 445 Philosophy of Language ....................................3
PHIL 495 Advanced Philosophy of Science and Inductive Logic ..................3
PSY 320 Statistical Methods in Psychological Research ..................4
PSY 462 The Development of Language and Thought in the Young Child ..................3
SOC 364 Social Statistics .............................................4

*Note: Students selecting ANTH 310 may apply the units from this course to their GE work in Section F.

2 Coursed with Linguistic course prerequisites.
B. THE MINOR TRACK (18-30 UNITS)

In consultation with the Coordinator/Advisor, and with the selected Department or Program, a student may complement the Linguistics Core with one of the following minors or concentrations:

Approved Minors and Concentrations:
- African American Studies
- Anthropology
- Asian American Studies
- Chicano/a Studies
- Classics
- Communication Disorders
- Communication Studies
- Computer Science
- Deaf Studies
- English
- English as a Second Language
- French
- German
- Italian
- Japanese
- Philosophy (Minor II)
- Psychology
- Russian
- Sociology
- Spanish

TOTAL UNITS IN THE MAJOR (39-54 UNITS)

Depending on a number of factors, including the minor selected for this track, the unit overlap with General Education will vary. Students should consult with their Program advisor.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (SEE PROGRAM ADVISOR)

TOTAL UNITS REQUIRED FOR DEGREE: 124

THE UNDERGRADUATE MINOR (21 UNITS)

Including the units shared between the Minor & GE: 18 Units

(See **Note** below)

Northridge students may earn a minor in Linguistics by completing the following:

INTRODUCTION TO LINGUISTICS

Select one of the following:
- ANTH 310 Anthropological Linguistics .................3
- ENGL 301 Language and Linguistics .................3
- SPC 420 Language and Symbolic Processes ...........3

(**Note: Students selecting ANTH 310 may apply the units from this course to their GE work in Section F.)

REQUIRED COURSES (15 UNITS)

LING 402 Phonetics and Phonology .................3

LING 404 Syntax ............................................3
LING 405 Child Language Acquisition .................3
LING 408 Semantics and Pragmatics .................3
LING 441 Sociolinguistics ..........................3

ELECTIVES (3 UNITS)

One course, selected in consultation with the Coordinator/Advisor, from those listed in the Elective Track of the Major.

TOTAL UNITS IN THE MINOR (21 UNITS)

THE MASTER OF ARTS DEGREE

All candidates completing the program leading to an M.A. in linguistics at Northridge will have a fundamental understanding of the core areas in linguistics at an advanced level. They may select to focus on preparing to teach English to speakers of other languages, and pursue the prescribed courses that are part of the TESL Track of the M.A. program.

Candidates may build on the core with their own program, in the General Track, in order to pursue more individual goals.

REQUIREMENTS FOR THE DEGREE

Students should consult general information about Graduate Programs at Northridge for the University requirements.

CONDITIONALLY CLASSIFIED STATUS

Candidates with undergraduate majors other than Linguistics, who otherwise satisfy the University requirements for Graduate Admission, may be admitted to the Linguistics Graduate Program as Conditionally Classified candidates.

FOR CLASSIFIED STATUS

Candidates may be admitted to the Linguistics/TESL Graduate Program with Classified status, or move from Conditionally Classified Status to Classified Status by satisfying the following requirements (again, candidates should refer to the section describing Graduate Programs).

Candidates may demonstrate prerequisite competence in linguistics by submitting a record of previous coursework for evaluation by the Coordinator/Advisor, or by completing prerequisite coursework as required by the Coordinator/Advisor while enrolled as a Conditionally Classified Student. All such coursework must be completed with a cumulative GPA of 3.0 or better.

All M.A. candidates must apply for Classified Status before they complete more than 12 units of 500 or 600 level coursework.

SPECIAL REQUIREMENTS

FOREIGN LANGUAGE REQUIREMENTS

M.A. candidates in Linguistics/TESL are required to demonstrate proficiency in a non-native language. Candidates are encouraged to consult with the Coordinator/Advisor for information about satisfying this requirement.

CULMINATING REQUIREMENTS

M.A. candidates in Linguistics/TESL may select either to complete a Thesis or Culminating Project, or to take the Comprehensive Examination. Candidates selecting the Thesis Option may enroll in 3-6 units of LING 698C in consultation with the Coordinator/Advisor. Students selecting the Comprehensive Exam will enroll in LING 697C for the semester in which they plan to take the examination.
M.A. TRACKS

LINGUISTICS CORE (9 UNITS)
All MA candidates are required to complete the following courses:

- LING 501 Seminar in Phonology ........................................3
- ENGL 610 Seminar in Transformational Generative Grammar ..........3
- LING 505 Seminar in Discourse Analysis, .........................3
  or
- LING 503 Seminar in Cognitive Linguistics..........................3

GENERAL TRACK (12 to 18 units)
In consultation with the Coordinator/Advisor, candidates will select either 18 units of coursework and LING 697, with the Comprehensive Examination, or will select 12 units of coursework and undertake the Thesis Option. All coursework must be from the 400 level and above, and at least 12 units must be selected from 500 and 600 level courses. Coursework may include LING courses or courses in other departments, in consultation with teaching faculty and with the Coordinator/Advisor. Candidates pursuing the General Track will consult with the Coordinator/Advisor, and complete an Approved Program Form, reflecting the courses selected.

TESL TRACK (15 UNITS)
TESL Track candidates must complete the following courses, and they will select from either the Comprehensive Exam and one elective course, or the preparation of a Thesis.

- LING 502 Seminar in Second Language Acquisition ..........3
- LING 520 Issues in ESL reading and writing .................3
- LING 521 Issues in ESL listening and speaking ..........3
- LING 525 English Structures for ESL/EFL teaching ......3
- EED 570 ESL Instruction in Bilingual and Multilingual Classrooms, or
  SED 525ESL Methods of Teaching English as a Second Language, ................3
  or
  SED 587ESL Methods of Teaching English as a Second Language to Adults .........3
- Electives and Comprehensive Exam,
  or
- Thesis .....................................................................................6

COURSE LIST

UPPER DIVISION

402. PHONETICS AND PHONOLOGY (3) (Formerly 302)
Prerequisite: Anthropology 310 or English 301 or Speech Communication 420. A study of the physical and acoustical properties of sound in a variety of natural languages; phonological analysis and rule formation in phonological systems.

404. SYNTAX (3) (Formerly 304)
Prerequisite: Anthropology 310, or English 301, or Speech Communication 420. Analysis of morphological and syntactic structures in a variety of natural languages; an examination of major grammatical theories.

405. LINGUISTIC PROCESSES OF CHILD LANGUAGE ACQUISITION (3) (Formerly 305)
Prerequisite: an introduction to linguistics. This course will focus on current knowledge about the development of grammatical and pragmatic knowledge, the development of visual-spatial language, bilingual development, the onset of literacy, and the development of language in exceptional contexts. A central goal of this course is to provide students with an understanding of the differences in observation, description, and explanation in the field of child language acquisition.

407. LANGUAGE VARIETIES (3)
Prerequisite: English 301 or Anthropology 310 or Speech Communication 420. An introduction to the study of language variation. Theoretical aspects of phonological, syntactic, and semantic variation will be considered in their geographical and social context.

408. SEMANTICS AND PRAGMATICS (3) (Formerly 308)
Prerequisite: Anthropology 310 or English 301 or Speech Communication 420. A linguistic study of meaning and context of discourse, and the relationship of such study to grammar.

412. SECOND LANGUAGE ACQUISITION (3)
Prerequisite: an introduction to linguistics. This course focuses on a close study of the process of second language acquisition in adults and children. Course topics will include: differences between first and second language acquisition, the effects of cognitive, sociocultural, and individual personality factors on second language acquisition; the role of input; and individual learning strategies. Work will introduce students to the major issues in the field from both theoretical and practical perspectives.

427. LANGUAGES IN CONTACT (3) (Formerly 307)
Prerequisite: Anthropology 310 or English 301 or Speech Communication 420. Identification and explanation of contrasts between languages including but not limited to Arabic, Chinese, Farsi, Hindi, Japanese, Korean, Navaho, Punjabi, Swahili, and/or Vietnamese with English. Using current models of linguistic description, students will explore the semantic, syntactic, lexical and phonological differences among languages spoken by prospective ESL populations. Such contrastive studies will provide an understanding of those aspects of the languages which differ widely from English.

430. A LINGUISTIC INTRODUCTION TO COGNITIVE SCIENCE (3) (Formerly 330)
Prerequisite: An introduction to linguistics. A survey of the fields comprising Cognitive Science: linguistics, neurology, philosophy, and psychology. Key issues to be addressed include the nature of symbolic representation, the ways in which we perceive and understand “input,” the nature of “thinking,” the role of computational models in understanding and aspects of human cognition and language.

441. SOCIOLINGUISTICS (3)
Prerequisite: ANTH310, ENGL301, OR COMS420. This course on language in society will examine linguistic behavior patterns as determined by such factors as age, gender, class, ethnicity, sexual orientation, region, and social context.

496. EXPERIMENTAL COURSES (1-3)
Consent of instructor and Linguistics Program Coordinator required. (Experimental courses in linguistics offered in other departments are subject to approval by the Linguistics Program Coordinator.)

499. INDEPENDENT STUDY OR 599 (1-3)
Consent of instructor and Linguistics Program Coordinator required.
GRADUATE

501. SEMINAR IN PHONOLOGY (3)
Prerequisites: LING 402 or equivalent. Current issues in phonological theory.

502. SEMINAR IN RESEARCH ON SECOND LANGUAGE ACQUISITION (3)
Prerequisites: LING 402, LING 404 or ENGL 403 or LING 412 or CH S 433. A critical historical examination of research on second-language acquisition. A study of analytical approaches such as contrastive analysis, error analysis, performance analysis, and discourse analysis, showing how different approaches reflect changing conceptions of language and the nature of language learners.

503. SEMINAR IN COGNITIVE LINGUISTICS (3)
Prerequisite: An introduction to linguistics and LING 402, 404, 405, 408, and LING 441. Examination of recent theoretical developments in linguistics from the general perspective of cognitive science. Focus on three major areas: cognitive grammar, semantics and pragmatic dimensions of linguistic categorization; the interface of cognition, experience, and grammar in natural discourse.

504. SEMINAR IN SOCIOLINGUISTICS OF AMERICAN SIGN LANGUAGE (3)
Prerequisites: ANTH 310, or ENGL 301 or COMS 420, LING 441, SPED 161. An examination of sociolinguistic variables in American Sign Language.

505. SEMINAR IN DISCOURSE ANALYSIS (3)
Prerequisites: LING 407, LING 408, or LING 441. Seminar in the theoretical and methodological aspects of Discourse Analysis in a linguistic perspective.

520. ISSUES IN ESL READING AND WRITING (3)
Prerequisites: Prior completion of or concurrent enrollment in LING 502. This course provides students with a foundation for understanding the processes of reading and writing--as well as the relationships between them--as they are experienced by adult second language learners. Topics to be addressed in the area of reading include skills and strategies that contribute to the second language learner's ability to read and to comprehend a variety of texts, and curricular design. Topics in writing include aspects of the composing process specific to second language students, the design of curriculum and assignments, and the effects of various types of responses to student writing.

521. ISSUES IN ESL LISTENING AND SPEAKING (3)
Prerequisites: Prior completion of or concurrent enrollment in LING 502. This course will provide students with a foundation for understanding the processes of listening and speaking as these are experienced by adult second language learners. While the course focuses on the academic environment, it will include an examination of skills necessary for learners to comprehend a variety of speakers in a range of spoken discourse covering both transactional and interactional situations. The course will also look at various components that contribute to effective participation in conversations, including fluency and pronunciation and cultural and universal rules of discourse, bringing the areas of speaking and listening together in the context of curricular design.

525. ENGLISH STRUCTURES FOR ESL/EFL TEACHING (3)
Prerequisites: ENGL 30 or ANTH 310 or COMS 420, and LING 404. This course will provide a systematic description of the structures and usages of English grammar from the perspective of someone learning English as an additional language. Students in the course will focus on ways that such material may most effectively be presented to non-native speakers of English.

696. DIRECTED GRADUATE RESEARCH (1-3) (Formerly 596)
Consent of Linguistics Program Coordinator required.

697. DIRECTED COMPREHENSIVE STUDIES (3) (Formerly 597)
Enrollment required in the semester that the Comprehensive Examination is taken; consent of Linguistics Program Coordinator required.

698. THESIS (1-6) (FORMERLY 598)
Consent of Linguistics Program Coordinator required. Maximum of 6 units of 696 and 698 allowed in program.

699. INDEPENDENT STUDY (1-3) (Formerly 599)
Classified graduate status required. Consent of instructor and Linguistics Program Coordinator required. Maximum of 6 units of 599 and 699 allowed in a student's program.
**Mathematics Department Chair: Magnhild Lien**

**College of Science and Mathematics**

Department Office: Faculty Office Building, Room 114  
Phone: (818) 677-2721  
Fax: (818) 677-3634  
Website: http://www.csun.edu/math/  
Secretary: Carol Cekosh

**Faculty:** James Bock, Stephen Breen, Kwang-nan Chow, Lawrence Clevenston, Helen Coulson, John Dye, Kellie M. Evans, Lorraine Foster, Terry Fuller, Jerry Gold, Robert Henderson, Werner Horn, David Klein, Magnhild Lien (Chair), Elena Anne Marchisotto, Weston Nathanson, Michael Neubauer, Helena Noronha, David Ostroff, Jacke Polewczak, David Protas, Jerry Rosen, Mary Rosen, Upadhyayula Satyanarayana, Mark Schilling, B. A. Sethuraman, Carol Shubin, Malcolm Soule, Ramin Vakilian, Ann Watkins, William Watkins, Ali Zakeri, Joel Zeitlin, Seth Steinberg, Warren Willig, Muriel Wright

**Emeritus Faculty:** George Biriuk, John Blattner, Walter Davison, Vladimir Filipenko, Jack Gaston, Artur Grigori, William Karush, Tung-Po Lin, John Lindsay, Efrem Ostrow, Donald Potts, Ralph Sabella, Ernest Scheuer, Maria Davison, Vladimir Filippenko, Jack Gaston, Artur Grigori, William Karush, Tung-Po Lin, John Lindsay, Efrem Ostrow.

**Undergraduate Advisors:** To be assigned an advisor, please call the Mathematics Department.


**Graduate Advisors:** Noronha, Option I; Zakeri, Options II and III

**Degrees Offered:** B.A., B.S., M.S.

**Credential Information:** The B.A. Degree (Secondary Teaching Option) provides preparation for the student planning to teach mathematics at the secondary level. This option has been approved by the State of California as an academic program for the Mathematics Credential. The student is directed to the Credential Preparation Office for specific information concerning Secondary Credential requirements. Students wishing to do graduate work in mathematics appropriate to the credential should consider the M.S. Degree (Option II). For details on the Credential program see the Credentials section of this Catalog or refer to the Index.

**Academic Advisement:** Upon admission as a mathematics major, the student should contact the Mathematics Department for assignment of an advisor. Courses taken to fulfill elective requirements must have prior approval by the student’s advisor. Undergraduate mathematics majors must consult with their advisor each semester in order to be cleared for registration through TTR. Graduate students should plan a program of study in consultation with a graduate advisor.

**Department Programs:** The Bachelor of Arts in mathematics is designed for students who (a) plan to teach mathematics in secondary or elementary schools; or (b) wish to prepare for graduate work in pure mathematics. The Bachelor of Science in mathematics is designed for students who (a) wish to pursue occupational careers involving applied mathematics; or (b) wish to prepare for graduate work in applied mathematics. The minor in mathematics is designed to provide students with mathematical preparation useful for future employment opportunities. The Department of Mathematics offers three options in the Master of Science program.

**Option I:** A program primarily designed to prepare students for community college teaching, entry level positions in industry and government, or future graduate work in mathematics.

**Option II:** A program primarily designed for students planning educational careers.

**Option III:** A program primarily designed to prepare students for entry level positions in industry, business, government, community college teaching or for future graduate work in applied mathematics.

**The Major:** Mathematicians today are engaged in a wide variety of activities. Research mathematicians create new theories and techniques. Applied mathematicians use that theory and mathematical modeling to solve problems in economics, science, medicine, engineering, and management. Teachers of mathematics develop new ways to teach mathematical concepts to children and adults. University-level mathematics involves more than algorithms and computational techniques. Mathematics majors also learn to construct proofs and how to approach a real life problem from a mathematical point of view.

**Learning Outcomes:** At the end of their program of study, students should be able to 1) express mathematical ideas clearly and cogently, both orally and in written form; 2) understand the principles underlying various branches of mathematics and recognize their interrelationship; 3) present clear and rigorous proofs; 4) exhibit competency in analytical skills; 5) build mathematical models; and 6) independently read and understand mathematical articles or texts written up to an undergraduate or beginning graduate level.

**Careers:** Math majors tend to be highly satisfied with the jobs they get after college. The pay is generally good and the work is usually strongly related to mathematics. The best five jobs listed in a recent Jobs Rated Almanac - software engineer, actuary, computer systems analyst, computer programmer, and mathematician - all require a very strong background in mathematics. In fact, almost every one of the top fifty jobs involves a significant amount of mathematical reasoning and knowledge.

**Requirements for the Bachelor Degrees**

It is assumed that the student has a facility in mathematics normally gained by recent completion of four years of high school mathematics through trigonometry and “Mathematical Analysis.” Because of the variation in curriculum at the high school level it is necessary to obtain satisfactory scores on the Mathematics Placement Test (MPT) and Entry Level Mathematics Exam (ELM) to enter the first mathematics course in the program, MATH 150A. Without satisfactory scores a student will need to complete additional coursework.

**Lower Division Core (31-32 Units)**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 150A</td>
<td>Mathematical Analysis I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 150B</td>
<td>Mathematical Analysis II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Mathematical Analysis III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 262</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>
The student must complete the Lower Division Core and one of the following Options, and must have at least a 2.0 grade point average for all upper division units required in the major.

**RESIDENCE REQUIREMENT**

In addition to University residence requirements for a bachelor's degree, the student must complete a minimum of 18 units of upper division mathematics in residence at Cal State Northridge with the approval of a mathematics advisor.

**BACHELOR OF ARTS REQUIREMENTS**

**LOWER DIVISION REQUIRED COURSES (32-33 UNITS)**

Lower Division Core 
- **MATH 150AL** Calculus Computer Lab A ..................1
- or **MATH 150BL** Calculus Computer Lab B .................1

**UPPER DIVISION REQUIRED COURSES (18 UNITS)**

- **MATH 340** Introduction to Probability ....................3
- **MATH 350** Advanced Calculus I ............................3
- **MATH 351** Differential Equations ..........................3
- **MATH 364** Elementary Modern Algebra .................3
- **MATH 462** Advanced Linear Algebra .....................3

**UPPER DIVISION ELECTIVES (12 UNITS)**

Upper division mathematics electives selected with advisor approval, not to include MATH 310, 310L, 311, 312, 391 and 490. Students considering graduate work in mathematics are strongly advised to include Math 450, 455 and 464 in their program of study.

**TOTAL UNITS IN THE MAJOR (62-63 UNITS)**

**GENERAL EDUCATION (37 UNITS)**

Subsection A.2, Critical Reasoning, is satisfied by PHIL 230. Subsection A.3, Mathematics, is satisfied by MATH 150A. Section B, Natural Sciences, is partially satisfied by the lower division Physics courses required in the major. Three units of Section E, Applied Arts and Sciences, is satisfied by the lower division major requirement of COMP 106/106L or COMP 110/110L.

**TITLE 5 (6 UNITS)**

**ADDITIONAL UNITS (18-19 UNITS)**

**TOTAL UNITS REQUIRED FOR THE BA DEGREE, SECONDARY TEACHING OPTION: 124**

**BACHELOR OF SCIENCE REQUIREMENTS**

**LOWER DIVISION REQUIRED COURSES (32-33 UNITS)**

- **MATH 150BL** Calculus Computer Lab A ..................1
- or **MATH 150AL** Calculus Computer Lab B .................1

**UPPER DIVISION REQUIRED COURSES (27 UNITS)**

- **MATH 320** Foundations of Higher Mathematics ..........3
- **MATH 340** Introduction to Probability ....................3
- **MATH 350** Advanced Calculus I ............................3
- **MATH 351** Differential Equations ..........................3
- **MATH 380** Introduction to Applied Mathematics ....3
- **MATH 462** Advanced Linear Algebra .....................3
- **MATH 480** Partial Differential Equations ...............3
- **MATH 481A** Numerical Analysis ..........................3
- **MATH 483** Mathematical Modeling ......................3

**UPPER DIVISION ELECTIVES (9 UNITS)**

Choose nine (9) units from among (i) all upper division math courses (excluding MATH 310, 310L, 311, 312, 331, 391 and 490) and (ii) approved courses in other departments. At least three (3) units must be in mathematics. Recommended courses from other departments are listed below:

- **CHEM** 351, 352
- **AM** 410, 509
- **EE** 320, 350, 351, 422, 470
- **ME** 370, 390, 470
- **PHYS** 301, 311, 370, 372, 431, 489

**NOTE:** Some of these courses have prerequisites in the departments concerned. The student is responsible for planning his/her schedule to meet those prerequisites when necessary.
TOTAL UNITS IN THE MAJOR, OPTION I (68-69 UNITS)

GENERAL EDUCATION (37 UNITS)

Subsection A.2, Critical Reasoning, is satisfied by PHIL 230.
Subsection A.3, Mathematics, is satisfied by MATH 150A.
Section B, Natural Sciences, is partially satisfied by the lower division Physics courses required in the major. Three units of Section E, Applied Arts and Sciences, is satisfied by the lower division major requirement of COMP 106/106L or COMP 110/110L.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (16-17 UNITS)

TOTAL UNITS REQUIRED FOR THE BS DEGREE, OPTION I: 128

OPTION II: STATISTICS

LOWER DIVISION REQUIRED COURSES (32-33 UNITS)

<table>
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<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 150AL</td>
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<tr>
<td>MATH 150BL</td>
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UPPER DIVISION REQUIRED COURSES (24 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
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<td>MATH 320</td>
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<tr>
<td>MATH 340</td>
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<td>MATH 350</td>
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<td>MATH 440A</td>
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<td>MATH 440B</td>
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<td>MATH 462</td>
<td>3</td>
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<tr>
<td>MATH 483</td>
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</table>

UPPER DIVISION ELECTIVES (9 UNITS)

Choose nine (9) units from among (i) all upper division math courses (excluding MATH 310, 310L, 311, 312, 323, 391 and 490) and (ii) approved courses in other departments. At least three (3) units must be in mathematics. Recommended courses are listed below:

- MSCI 409, 467, 469
- MATH 380, 442, 450, 465, 480, 481AB, 482, 540, 542
- PSY 322, 420
- SOC 460

All classes taken outside the Mathematics Department must have the approval of a statistics advisor prior to enrollment.

NOTE: Some of the courses have prerequisites in the department concerned. These prerequisites will be waived for students who have completed MATH 340 and 440A. Early completion of MATH 340 and 440A is recommended, and courses outside the mathematics department are encouraged. Students will need MATH 340, 440A, and 440B to pass the second actuarial examination.

TOTAL UNITS IN THE MAJOR, OPTION II (65-66 UNITS)

GENERAL EDUCATION (37 UNITS)

Subsection A.2, Critical Reasoning, is satisfied by PHIL 230.
Subsection A.3, Mathematics, is satisfied by MATH 150A.
Section B, Natural Sciences, is partially satisfied by the lower division Physics courses required in the major. Three units of Section E, Applied Arts and Sciences, is satisfied by the lower division major requirement of COMP 106/106L or COMP 110/110L.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (19-20 UNITS)

TOTAL UNITS REQUIRED FOR THE BS DEGREE, OPTION II: 128

DOUBLE MAJOR

A student pursuing either a Bachelor of Arts or a Bachelor of Science degree may combine a second major with mathematics. In this circumstance, upon approval of an advisor, 6 units of upper division electives may be satisfied by courses in the second major. The remaining electives must be taken in the department of mathematics. Under certain rare conditions the physics requirement in the Lower Division Core may be replaced by appropriate course work in the second major. Prior approval must be obtained from an advisor and the chair of the department of mathematics for this latter occurrence.

REQUIREMENTS FOR THE MINOR

LOWER DIVISION REQUIRED COURSES (16 UNITS)

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<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>MATH 150A</td>
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<tr>
<td>MATH 150B</td>
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<tr>
<td>MATH 250</td>
<td>3</td>
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<td>MATH 262</td>
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Note: PHIL 230, Symbolic Logic I, is recommended and satisfies Subsection A.2 of General Education.

UPPER DIVISION ELECTIVES (12 UNITS)

Selected upper division mathematics courses totaling at least 12 units which must be approved IN ADVANCE by a mathematics minor advisor. Depending on the student’s area of interest, any one of the following 9-unit sequences may be used as part of the required 12 units (or other choices if approved by the mathematics minor advisor).

- Computer Mathematics MATH 326, 340, 482
- Secondary Teaching MATH 320, 373, 411 or 412
- Statistics MATH 340, 440A, 440B

TOTAL UNITS REQUIRED FOR THE MINOR (28 UNITS)

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

FOR ADMISSION TO CLASSIFIED GRADUATE STATUS

Academic preparation essentially equivalent to a B.A. or B.S. degree in mathematics at CSU Northridge with an average of B or better in all undergraduate work and the major is required to be eligible for Classified status. Students with less than a B average may be eligible for conditional status. Classified status may be attained upon successful completion of course work approved by a graduate advisor and satisfaction of University requirements.

OPTION I: MATHEMATICS

Option I is designed to study in depth the mainstream of modern mathematics: topology, analysis, and algebra. Students who successfully complete this option should be equipped to teach at the junior college level, or to continue study and research toward the doctorate, or to perform effectively as mathematicians in industry.

REQUIRED COURSES (15 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 501</td>
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<td>MATH 550</td>
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<td>MATH 650</td>
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<td>MATH 655</td>
<td>3</td>
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<tr>
<td>MATH 660</td>
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</table>

ELECTIVES (15 UNITS)

Select courses with the approval of the Option I Graduate Advisor. At least 6 of the 15 units must be at the 500- or 600-level. Up to 6 units may be taken in fields outside mathematics, but related to the student’s program. For example, courses in relativity, quantum mechanics and
applications of group theory may be taken from the physics department.

**COMPREHENSIVE EXAM OR MASTER'S THESIS**

Students must successfully complete one of the following:

a. Comprehensive Examination

   The Examination, which consists of two parts, will be based on the student's graduate course work. The student must take the algebra part of the exam and choose one of the two analysis parts.

   Algebra (covers topics from 462, 464 and 660)
   Analysis I (covers topics from 501 and 655)
   Analysis II (covers topics from 550 and 650)

b. A Master's Thesis

   In order for a student to write a master's thesis, he or she will be required to have a grade point average of at least 3.4 in the five core courses MATH 501, 550, 650, 655 and 660.

   Units in MATH 697 (Directed Comprehensive Studies) or MATH 698 (Thesis or Graduate Project) do not count toward the 30 units required for the degree.

**TOTAL UNITS REQUIRED FOR THE MS DEGREE, OPTION I: 30**

**OPTION II: MATHEMATICS FOR EDUCATIONAL CAREERS**

Option II is designed specifically to develop mathematical background of in-service secondary school teachers, and of those students who are prospective secondary school teachers.

The individual courses are designed for the high school teacher to consider at an advanced level the wide spectrum of concepts of secondary school mathematics, and to encourage the study of problems associated with the teaching of mathematics. A Master's paper provides the opportunity for individual study in depth of one area of mathematics under the direction of a member of the mathematics faculty.

**REQUIRED COURSES (21 UNITS)**

a. (15 Units)

   MATH 540 Regression Analysis.........................3
   or
   MATH 542 Topics in Statistics and Probability......3
   MATH 622 Algebraic Structures..........................3
   or
   MATH 660 Algebra...........................................3
   MATH 623 Geometry.........................................3
   MATH 624 Analysis...........................................3
   MATH 625 Advanced Mathematical Modeling........3

b. (3 Units)

   MATH 698 Master's Paper..............................3

c. (3 Units)

   S ED 625MA Theory and Research in Teaching Secondary School Mathematics.....3

   (The teaching credential is generally required as prerequisite to this course.)

**ELECTIVES (9 UNITS)**

Choose 9 units of electives with advisor approval. Some or all of these may be taken in fields outside mathematics, but must be related to overall program. The M.S. degree requires a total of 30 units of approved graduate work, with at least 21 units out of 30 at the 500- or 600-level.

**TEACHING CREDENTIAL REQUIREMENT**

Students must have a California Single Subject Credential in Mathematics when they enter the program or at least by the time they are ready to graduate.

**TOTAL UNITS REQUIRED FOR THE MS DEGREE, OPTION II: 30**

**OPTION III: APPLIED MATHEMATICS**

Option III is designed to prepare students for entry-level positions in industry, business, government, community college teaching or for future graduate work in applied mathematics. Students entering this program should have undergraduate preparation in calculus, linear algebra, differential equations, advanced calculus, advanced linear algebra and experience in mathematical computing and programming. The requirement for a B.A. or B.S. Degree in mathematics may be waived for students with relevant experience in business or industry, although students may be required to complete prescribed prerequisite courses prior to attaining classified status.

**REQUIRED COURSES (12 UNITS)**

At least four courses from the following:

MATH 540 Regression Analysis............................3
MATH 542A-D Topics in Statistics and Probability....3
MATH 550 Calculus on Manifolds.........................3
MATH 581 Advanced Numerical Analysis................3
MATH 582A-D Topics in Numerical Analysis.............3
MATH 592A-D Topics in Applied Mathematics..........3
MATH 625 Advanced Mathematical Modeling............3
MATH 650 Real Analysis....................................3
MATH 655 Complex Analysis.............................3
MATH 680A Methods of Applied Mathematics........3
MATH 680B Methods of Applied Mathematics II........3

**ELECTIVES (18 UNITS)**

These should be selected with the approval of the Option III graduate advisor to total 18 units. At least nine units of the 18 must be at the 500- or 600-level. Up to 10 units may be taken from fields outside of the Mathematics Department, but related to the student's program.

**COMPREHENSIVE EXAM OR MASTER’S THESIS**

Students must successfully complete one of the following:

a. Comprehensive Examination

   The examination, which consists of two parts, will be based on the student's graduate course work. The student should select any two parts from the following list with at most one part from analysis:

   Analysis I (covers topics from 501 and 655)
   Analysis II (covers topics from 550 and 650)
   Statistics and Probability (covers topics from 540 and 542)
   Numerical Analysis (covers topics from 581 and 582)

   Methods of Applied Mathematics (covers topics from 680A and 680B)

b. A Master's Thesis

   In order for a student to write a master's thesis, he or she will be required to have a grade point average of at least 3.4 in the four courses chosen from the Required Courses list.

   Units in MATH 697 (Directed Comprehensive Studies) or MATH 698 (Thesis or Graduate Project) do not count toward the 30 units required for the degree.

**TOTAL UNITS REQUIRED FOR THE MS DEGREE, OPTION III: 30**
SWITCHING OPTIONS IN THE GRADUATE PROGRAM
For a graduate student to switch options, a request must be submitted in writing to a graduate advisor for consideration by the Graduate Committee.

COURSE LIST
ENTRY LEVEL MATHEMATICS EXAM (ELM)
The ELM is a CSU systemwide examination on elementary and intermediate algebra; geometry; data interpretation, counting, probability and statistics. A passing score on the ELM or an exemption from the ELM is required for enrollment in any CSU Northridge mathematics course numbered 100 or above. For a discussion of ELM exemptions, refer to Entry Level Mathematics Examination in the Catalog Index.

MATHEMATICS PLACEMENT TEST (MPT)
The MPT is a required test, in addition to the ELM, for enrollment in MATH 150A and 255A. A minimum score 24 on the MPT (precalculus) is required for enrollment in MATH 150A, and a minimum score of 22 is required for enrollment in 255A. For a description of MPT, refer to Mathematics Placement Test in the Catalog Index.

PREREQUISITE MATHEMATICS COURSES
The University entrance requirements (two years of high school algebra and one year of geometry) are the basic prerequisites to all courses. Additional prerequisites may be listed in the course descriptions which follow. Prerequisite courses must be passed with a grade of “C” or better.

LOWER DIVISION
090. INTRODUCTION TO PROBLEM SOLVING (2)
An introduction to problem-solving, with an emphasis on basic mathematics skills. Diagnostic tests enable students to identify specific topics for study. The course involves collaborative learning, individualized advisement and instruction, and use of media and computers. Normally offered as a Summer Bridge course. Credit will not apply toward the baccalaureate degree but will apply as 2 units of University credit.

094. DEVELOPMENTAL MATHEMATICS (5)
Prerequisite: This class is restricted to students who have scored 400 or above, but below 550 on the ELM test. A review of the fundamental concepts of arithmetic, measurement geometry, and elementary and intermediate algebra. Students who earn Credit in this course qualify for entrance into MATH 103, 105, and 106 and satisfy the Entry Level Mathematics (ELM) requirement. This course is offered Credit/No Credit/U only. Credit will not apply toward the baccalaureate degree but will apply as 5 units of University credit.

094A. ARITHMETIC AND MEASUREMENT GEOMETRY (5)
Prerequisite: This class is restricted to students who have scored below 400 on the ELM test. MATH 094A and 094B together cover the topics studied in MATH 094. Students earning Credit in both 094A and 094B qualify for entrance into Mathematics 131, 140, or 210 and satisfy the Entry Level Mathematics (ELM) requirement. This course is offered Credit/No Credit/U only. Credit will not apply toward the baccalaureate degree but will apply as 5 units of University credit.

094B. ALGEBRA (5)
Prerequisite: MATH 094A. MATH 094A and 094B together cover the topics studied in MATH 094. Students earning Credit in both 094A and 094B qualify for entrance into MATH 131, 140, or 210 and satisfy the Entry Level Mathematics (ELM) requirement. This course is offered Credit/No Credit/U only. Credit will not apply toward the baccalaureate degree but will apply as 5 units of University credit.

095. REVIEW OF PRECOLLEGE MATHEMATICS (5)
Prerequisite: This class is restricted to students who score 400 or above but below 550 on the ELM test. A review of the fundamental concepts of elementary and intermediate algebra. Students earning credit in this course qualify for entrance into MATH 103, 105, and 106 and satisfy the Entry Level Mathematics (ELM) requirement. This course is offered Credit/No Credit/U only. Credit will not apply toward the baccalaureate degree but will apply as 5 units of University credit.

103. CALCULUS FOR BUSINESS APPLICATIONS I (3)
Prerequisites: A passing score on the Entry Level Mathematics Examination, or credit in MATH 095. Calculus and its applications to business problems; linear, quadratic, exponential and logarithmic functions; limits, derivatives, extreme value problems, applications to graphing functions; integration. Not open to students majoring in the physical sciences or mathematics. (Available for General Education, Basic Subjects.)

105. PRE-CALCULUS (5)
Prerequisite: A passing score on the Entry Level Mathematics Examination, or credit in MATH 095. Number systems and their algebraic properties; systems of equations and inequalities; basic analytic geometry of lines and conic sections; elementary functions including polynomial, rational, exponential, and logarithmic, with emphasis on trigonometric functions; polar equations. Graphing calculators are used and the interplay between graphical and algebraic solutions is stressed. Not open for credit to students who have successfully completed MATH 150A. (Available for General Education, Basic Subjects.)

106. PRINCIPLES OF MATHEMATICS (5)
Prerequisite: A passing score on the Entry Level Mathematics Examination, or credit in MATH 095. Mathematics applicable to problems in Health Science. Sets; Inequalities; Functions and Graphs: polynomial, rational, exponential, logarithmic, trigonometric; Calculus: differentiation, extreme values, integration, areas; Matrices: systems of linear equations, inverse; Probability. This course is not open to students who have credit in MATH 103, 105 or 255A. (Available for General Education, Basic Subjects.)

131. MATHEMATICAL IDEAS (3)
Prerequisites: A passing score on the Entry Level Mathematics Exam, or credit in MATH 094, or credit in both MATH 094A and MATH 094B. A General Education course intended to acquaint the student with basic mathematical ideas. (Available for General Education, Basic Subjects.)

140. INTRODUCTORY STATISTICS (4)
Prerequisite: A passing score on the Entry Level Mathematics Exam, or credit in Math 094, or credit in both Math 094A and Math 094B. Methods for displaying, describing, and producing data. The normal distribution. Correlation and regression. Sampling distributions and probability. Statistical inference for means and proportions. (Available for General Education, Basic Subjects.)
150A. MATHEMATICAL ANALYSIS I (5)
Prerequisite: Passing scores on the Entry Level Mathematics Examination and on the Mathematics Placement Test. Limits, derivatives, applications of differentiation. Definite and indefinite integrals, the Fundamental Theorem of Calculus. (Available for General Education, Basic Subjects.)

150B. MATHEMATICAL ANALYSIS II (5)
Prerequisite: MATH 150A with a grade of “C” or better. Techniques of integration, numerical integration, improper integrals, applications of the integral. Taylor polynomials, sequences and series, power series.

150C. MATHEMATICAL ANALYSIS III (5)
Prerequisite: MATH 150B with a grade of “C” or better. Applications of the calculus including transcendental functions, sequences and series; calculus in many variables; matrices.

150AL. CALCULUS COMPUTER LAB A (1)
Prerequisite or corequisite: MATH 150A. Reinforcement of calculus concepts and applications of calculus through the use of computers. Introduction to mathematical software to prepare students for use in later courses. Three laboratory hours per week.

150BL. CALCULUS COMPUTER LAB B (1)
Prerequisite or corequisite: MATH 150B. Reinforcement of calculus concepts and applications of calculus through the use of computers. Introduction to mathematical software to prepare students for use in later courses. Three laboratory hours per week.

203. CALCULUS FOR BUSINESS APPLICATIONS II (3)
Prerequisites: MATH 103 (or equivalent) with a grade of “C” or better. A continuation of the calculus from MATH 103. A short review of the calculus from MATH 103; calculus in one variable: numerical methods, mean value theorem, simple differential equations, sequences and series; calculus in many variables; matrices.

210. BASIC NUMBER CONCEPTS (3)
Prerequisites: A passing score on the Entry Level Mathematics Exam, or credit in MATH 094, or credit in both MATH 094A and MATH 094B. Language of sets, systems of numeration, operations on numbers and fundamentals of logical reasoning, relations and functions, domain of integers, field of rational and real numbers. Designed primarily for students intending to teach in the elementary or junior high school. Not available for credit toward the major or minor.

250. MATHEMATICAL ANALYSIS III (5)
Prerequisite: Completion of MATH 150B with a grade of “C” or better. A continuation of MATH 150B. Solid analytic geometry, partial differentiation, and multiple integrals with applications.

255A. CALCULUS I (3)
Prerequisites: Passing scores on the Entry Level Mathematics Examination and on the Mathematics Placement Test. Knowledge of trigonometry is assumed. This is the first semester of a short course in the calculus. Topic in calculus of functions of one variable including techniques of differentiation, applications to graphing, extreme problems, and an introduction to integration. Not open for credit to students who have successfully completed MATH 150A. (Available for General Education, Basic Subjects.)

255B. CALCULUS II (3)
Prerequisite: Completion of MATH 255A with a grade of “C” or better. A continuation of MATH 255A. Techniques of integration, series, applications, functions of several variables and partial differentiation. Not open for credit to students who have successfully completed MATH 150AB.

262. INTRODUCTION TO LINEAR ALGEBRA (3)
Prerequisite: MATH 150B. Systems of linear equations, matrices, determinants, eigenvalues, vector spaces, linear transformations, introduction to inner products on $\mathbb{R}^n$, spectral theorem for symmetric matrices.

280. APPLIED DIFFERENTIAL EQUATIONS (3)
Prerequisite or Corequisite: Math 250. Ordinary differential equations, series solutions, systems of equations, Laplace transforms, with emphasis on applications and introduction to numerical techniques. This course is not open to students who have credit for MATH 351.

UPPER DIVISION

310. BASIC CONCEPTS OF GEOMETRY, PROBABILITY AND STATISTICS (3)
Prerequisites: A passing score on the Entry Level Mathematics Examination and completion of MATH 210 with a grade of “C” or better. A second course for students intending to teach in elementary or junior high school. Geometry as a system; congruence and similarity through construction with straightedge and compass; transformational geometry; the nature of measurement, precision, and accuracy; basic principles of probability and statistics. Not available for credit toward the major or minor.

310L. GEOMETRY, PROBABILITY AND STATISTICS LABORATORY (1)
Prerequisites: Passing score on the ELM; MATH 210; prior or concurrent enrollment in MATH 310. Use of the computer in geometry including an introduction to the Computer Language LOGO, probability and statistics; problem solving using models and simulation; the metric system of measurement. Offered Credit/No Credit only. Three hours of laboratory per week.

311. BASIC GEOMETRIC CONCEPTS (3)
Prerequisites: A passing score on the Entry Level Mathematics Examination and completion of MATH 210 and MATH 310 with a grade of “C” or better or consent of instructor. A continuation of the investigation of elementary geometry begun in MATH 310. Topics selected from: topology, motion geometry, metric geometry, geometry as a mathematical system, absolute geometry, Euclidean geometry, non-Euclidean geometry. Not available for credit toward the math major or minor.

312. BASIC ALGEBRAIC CONCEPTS (3)
Prerequisites: A passing score on the Entry Level Mathematics Examination and completion of MATH 210 and MATH 310 with a grade of “C” or better, or consent of instructor. Topics selected from: abstract algebra and applied algebra using elementary mathematical models. Not available for credit toward the math major or minor.

320. FOUNDATIONS OF HIGHER MATHEMATICS (3)
Prerequisite: MATH 150B. Corequisite: Philosophy 230. This course provides an introduction into the language and methods of higher mathematics. Sets, relations, functions and limits are introduced using the concepts of axioms, definitions, propositions and proofs. Students are expected to write mathematical proofs, and communicate mathematical ideas clearly in written and oral form.

326. DISCRETE MATHEMATICS (3)
Prerequisites: MATH 150B and Philosophy 230. Propositional calculus, predicate calculus, set algebra, relations, functions, mappings, fields, number systems.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>331.</td>
<td>Mathematical Explorations (3)</td>
<td>Passing score on the ELM; completion of the lower-division writing requirement and upper-division standing. A course designed for non-mathematics majors to give students an appreciation of the diversity of mathematics and the spirit in which it is employed in various applications. The character and origin of key topics from different branches of mathematics are explored. The contributions of various cultures to the field are studied along with the use of mathematical models for physical problems. The development is conceptual rather than axiomatic and includes several supervised reading and writing assignments. One significant writing assignment is required. Strongly recommended for prospective teachers in all fields. (Available for General Education, Basic Subjects.)</td>
</tr>
<tr>
<td>340.</td>
<td>Introductory Probability (3)</td>
<td>MATH 150B. Sample spaces, probability rules, independence, conditional probability, Bayes' Theorem, discrete and continuous random variables and their distributions (e.g., binomial, Poisson, geometric, normal, exponential, uniform), expectation, moment generating functions, joint distributions, central limit theorem.</td>
</tr>
<tr>
<td>350.</td>
<td>Advanced Calculus I (3) (Formerly 450A)</td>
<td>MATH 320. Topics include the real number system, continuous functions, differentiation, and Riemann integration of functions of one real variable.</td>
</tr>
<tr>
<td>351.</td>
<td>Differential Equations (3)</td>
<td>MATH 250 and 262. Linear equations, series solutions, singular points, existence and uniqueness of solutions, systems of equations. This course is not open to students who have credit for MATH 280.</td>
</tr>
<tr>
<td>364.</td>
<td>Elementary Modern Algebra (3)</td>
<td>MATH 250 and 262 and 320. Elementary number theory, groups, rings, fields.</td>
</tr>
<tr>
<td>373.</td>
<td>Modern Geometry (3)</td>
<td>MATH 320. Topics in Euclidean geometry to include foundations, constructions, transformations and the discovery of non-Euclidean geometries.</td>
</tr>
<tr>
<td>380.</td>
<td>Introduction to Applied Mathematics (3)</td>
<td>MATH 250. Vector analysis, line and surface integrals, vector field theory, Fourier series.</td>
</tr>
<tr>
<td>390A-D.</td>
<td>Mini-Courses in Mathematics for Elementary Teachers (1)</td>
<td>Passing score on ELM, and MATH 210 with a grade of &quot;C&quot; or better or consent of instructor. This course is intended for Liberal Studies Credential Candidates and inservice elementary and middle school teachers. Important concepts of mathematics that have particular application to the elementary school curriculum. A-History of Mathematics; B-Computational Methods; C-Computer-Assisted Instruction; D-Strategies in Problem Solving. Enrollment for Credit/No Credit only.</td>
</tr>
<tr>
<td>391.</td>
<td>Field Experience in the Mathematics of the Public Schools (2)</td>
<td>Multiple Subject Candidates) MATH 210 &amp; 310 or corequisite with 310; a passing score on the ELM. (Single Subject Candidates) MATH 150A and 150B; junior standing. A field experience course designed to give the prospective teacher an appreciation of a quality mathematics program in the public schools. Requirements include 45 hours of participation in an assigned school and regular group meetings to discuss the classroom experience. Offered Credit/No Credit only.</td>
</tr>
<tr>
<td>411.</td>
<td>Foundations of Geometry (3)</td>
<td>MATH 373. Non-Euclidean geometries and/or advanced results of Euclidean geometry.</td>
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<tr>
<td>412.</td>
<td>Foundations of Algebra (3)</td>
<td>MATH 364. Examination of the historical background and modern perspective of the algebraic concepts back to secondary mathematics. Topics include basic algebraic structures, postulational approach to the real number system, complex number system, sets, and Boolean algebra.</td>
</tr>
<tr>
<td>440A.</td>
<td>Mathematical Statistics I (3)</td>
<td>MATH 262 and 340. Point estimation, bias and mean squared error, optimality theory for estimates, maximum likelihood estimation, confidence intervals, test of hypotheses, power, optimality theory for tests.</td>
</tr>
<tr>
<td>440B.</td>
<td>Mathematical Statistics II (3)</td>
<td>MATH 440A. Chi-square goodness of fit tests, simple and multiple linear regression, one and two-way analysis of variance, statistical analysis using the computer.</td>
</tr>
<tr>
<td>441.</td>
<td>Introduction to Statistical Inference (3)</td>
<td>MATH 150B and 262. An introduction to statistical methods condensing much of the material of MATH 440A mainly by devoting less time to the underlying theory. Not open for credit to those having completed MATH 440A.</td>
</tr>
<tr>
<td>442A-Z.</td>
<td>Topics in Mathematical Statistics (3)</td>
<td>MATH 340 or MATH 440A. Topics selected from statistics and/or probability, such as nonparametric statistics, multivariate statistics, experimental design, decision theory, and advanced probability theory.</td>
</tr>
<tr>
<td>450.</td>
<td>Advanced Calculus II (3) (formerly 450B)</td>
<td>MATH 350. Topics include sequences and series of functions, Heine-Borel theorem, Jacobians, inverse and implicit function theorems.</td>
</tr>
<tr>
<td>455.</td>
<td>Complex Variables (3)</td>
<td>MATH 350. Complex numbers, analytic functions, complex integration, Cauchy’s Theorem, power series, calculus of residues, conformal mappings.</td>
</tr>
<tr>
<td>462.</td>
<td>Advanced Linear Algebra (3)</td>
<td>MATH 262 and 320. Finite dimensional vector spaces, linear transformations, matrix polynomials, canonical forms.</td>
</tr>
<tr>
<td>463.</td>
<td>Number Theory (3)</td>
<td>MATH 364. The Euclidean algorithm and the unique factorization theorem, congruences, primitive roots and indices, quadratic residues and the law of quadratic reciprocity, distribution of primes.</td>
</tr>
<tr>
<td>464.</td>
<td>Advanced Modern Algebra (3)</td>
<td>MATH 364. Further topics in group and ring theory, field extensions.</td>
</tr>
<tr>
<td>465.</td>
<td>Introduction to Linear Programming (3)</td>
<td>MATH 262. Linear inequalities, duality and equilibrium theorems, the simplex method, applications and models. Other topics selected from parametric programming, large scale methods, generalized programming, integer programming.</td>
</tr>
<tr>
<td>480.</td>
<td>Partial Differential Equations (3) (Formerly 480A)</td>
<td>MATH 380, and either MATH 351 or MATH 280. Orthogonal functions, Laplace’s equation, Poisson’s equation, Bessel’s equation, self-adjoint operators, Sturm-Liouville theory, Fourier series, separation of variables.</td>
</tr>
</tbody>
</table>
applied to the heat equation and wave equation, nonhomogeneous problems, Green’s functions for time-independent problems, infinite domain problems.

481A. NUMERICAL ANALYSIS (3)
Prerequisites: MATH 262, Computer Science 106/106L or 110/110L. Techniques of applied mathematics, solution of equations, interpolation, numerical integration, numerical solution of differential equations.

481B. NUMERICAL ANALYSIS (3)
Prerequisite: MATH 481A. Techniques of applied mathematics, finite differences, orthogonal polynomials, least squares, harmonic analysis, smoothing of data.

482. COMBINATORIAL ALGORITHMS (3)
Prerequisites: MATH 150B and 262 and some computer programming experience. Computer oriented study of seminumerical and non-numerical algorithms. Sorting, tree search, generation of combinatorial structures, algorithm proof techniques, best algorithms, programming complexity.

483. MATHEMATICAL MODELING (3)
Prerequisites: MATH 340 and 351. Applications of mathematical techniques to solve selected problems in ecology, biology, economics, finance, social sciences, life sciences, physical sciences, and engineering. Models discussed include deterministic, stochastic, optimization, static, and dynamic ones. Emphasis will be placed on the initial phase of building mathematical models and the final phase of interpreting the solutions in terms of real-life applications.

490. SEMINAR (3)
Prerequisites: Senior standing and permission of instructor.

496. TOPICS IN MODERN MATHEMATICS (3)
Prerequisites: Senior standing and permission of instructor.

499. INDEPENDENT STUDY (1-3)
See independent study under courses of study.

GRADUATE COURSE LIST

501. TOPOLOGY (3)
Prerequisite: MATH 350. Set theory, topology of the real line, general topological spaces, metric spaces, arcs and curves.

540. REGRESSION ANALYSIS (3)
Prerequisite: MATH 440A. The general linear model in matrix form, multiple regression, analysis of variance, robust regression, principal components and factor analysis. Statistical software will be utilized.

542A-D. TOPICS IN STATISTICS AND PROBABILITY (3)
Prerequisite: MATH 340 or 440A. Topics from statistics and probability presented at an advanced level. Sample topics: stochastic processes, experimental design, nonparametric statistics, multivariate statistics, probability theory and statistical computing.

550. CALCULUS ON MANIFOLDS (3)
Prerequisite: MATH 450. The careful development of the calculus of several variables.

571. DIFFERENTIAL GEOMETRY (3) (Formerly 471)
Prerequisite: MATH 450. Space curves studied with the aid of the Serret-Frenet formulas, theory of surfaces considered from the viewpoint of the fundamental forms and bending invariants, fundamental equations and curvilinear coordinates in space.

581. ADVANCED NUMERICAL ANALYSIS (3)
Prerequisite: MATH 450 and knowledge of computer programming, or consent of instructor. Error analysis, interpolation by rational and trigonometric functions (fast fourier transforms), numerical quadratures, root findings, minimax and near minimax problems, numerical ordinary differential equations (initial-value problems), numerical solution of system of linear equations.

582A-D. TOPICS IN NUMERICAL ANALYSIS (3)
Prerequisite: MATH 481A or consent of instructor. Topics from numerical analysis presented at an advanced level. Sample topics: numerical ordinary differential equations, numerical partial differential equations, numerical optimization, numerical linear algebra and matrices. Numerical software will be used.

589. MATHEMATICAL PHYSICS SEMINAR (1)
Prerequisites: Senior or graduate standing in the Mathematics or Physics and Astronomy Department. This seminar course is comprised of a series of weekly lectures in mathematical physics by faculty members and invited speakers. This course is identical to Phys 589.

592A-D. TOPICS IN APPLIED MATHEMATICS (3)
Prerequisite: MATH 350 or 351. Topics from applied mathematics presented at an advanced level. Sample topics: ordinary differential equations, partial differential equations, integral equations, Fourier series, wavelets, filters, approximation theory.

595A-Z. SPECIAL TOPICS (1-3)
Prerequisite: Consent of instructor. Specialized topics from a concentrated field of current interest presented at an advanced level.

620. HISTORY OF MATHEMATICS (3)
Important concepts of current mathematics: inception, development, present viewpoint. Lecture-discussion.

621. THE AXIOMATIC METHOD (3)
Prerequisites: MATH 364, 373, and one of 412 or 464. Study of a variety of axiomatic systems including set theory, the reals, transfinite arithmetic. Lecture-discussion.

622. ALGEBRAIC STRUCTURES (3)
Prerequisite: MATH 412 or equivalent. Fundamental structures of algebra such as groups, rings, fields, vector spaces, and linear transformations, particularly their connections with other parts of mathematics.

623. GEOMETRY (3)
Prerequisite: MATH 411 or 621 or equivalent. Description and classification of different geometries by axiomatic theories and by invariants of groups of transformations. Advanced study of geometric transformations with introductions to other advanced topics in geometry.

624. ANALYSIS (3)
Prerequisite: MATH 450 or equivalent. Introduction to point set topology, metric and normed spaces; integration theory; selected topics from calculus in vector spaces or the complex plane, and differential forms.

625. ADVANCED MATHEMATICAL MODELING (3)
Selected problems in ecology, biology, economics, finance, social sciences, life sciences, physical sciences, and engineering will be used to develop advanced techniques of mathematical modeling.

650. REAL ANALYSIS (3)
Prerequisite: MATH 501. Lebesgue measure and integration; functions of bounded variation, Vitali covering theorem and
differentiation of real-valued functions; LP-spaces; general measure and integration; product measures and Fubini's theorem; differentiation of set functions.

651ABC. ADVANCES IN ANALYSIS (3-3-3)
Prerequisites: MATH 650 and 655. A lecture-discussion course on results in mathematical analysis appearing in current mathematical research journals.

655. COMPLEX ANALYSIS (3)
Prerequisites: MATH 501 and 455. Topics covered: the general Cauchy theorem, power series and analytic continuation, series and product expansions, conformal mapping, the Dirichlet problem.

660. ALGEBRA (3)
Prerequisite: MATH 464. A further study of abstract algebra.

661ABC. ADVANCES IN ALGEBRA (3-3-3)
Prerequisite: MATH 660. A lecture-discussion course on results in algebra appearing in current mathematical research journals.

680A. METHODS OF APPLIED MATHEMATICS I (3)
Prerequisites: MATH 501. Properties of Banach and Hilbert spaces, Hahn-Banach Theorem, fixed point theorem, with emphasis on applications, adjoint and self-adjoint operators, applications to approximation theory, differential and integral equations.

680B. METHODS OF APPLIED MATHEMATICS II (3)
Prerequisite: MATH 680A. Closed operators, conjugate and compact operators, optimization, calculus of nonlinear operators, constrained and unconstrained optimization, convex duality, eigenvalue problems.

690. SEMINAR (3)
Prerequisites: MATH 501 and 660.

696. DIRECTED GRADUATE RESEARCH (3)
697. DIRECTED COMPREHENSIVE STUDIES (1-3)
698. THESIS OR GRADUATE PROJECT (1-6)
699. INDEPENDENT STUDY (1-6)
See independent study under courses of study.
MODERN AND CLASSICAL LANGUAGES AND LITERATURES
Chair: Edda Spielmann

DEPARTMENT PROGRAMS: The Department of Modern And Classical Languages and Literatures offers a wide variety of courses and programs in the fields of foreign languages, literatures and cultures. They are designed for those students who intend to major or minor in languages other than English, for students who seek a broad liberal arts education in preparation for a variety of professions, and for students whose careers will be furthered by the knowledge of another language and culture.

In addition to the majors and graduate degrees, the department offers minors in Classics, French, German, Italian, Japanese, Russian, and Spanish, and a number of courses in Armenian, Chinese, Farsi, Hebrew, and Korean.

DEGREES OFFERED: B.A.–French, German, Spanish. For options available within the Major, refer to specific language section.
M.A.–Spanish. For degree requirements, refer to specific language section.

CREDENTIAL INFORMATION: Students interested in teaching languages other than English in the secondary schools should seek advisement as soon as possible. In order to be admitted to student teaching, a student must complete a major in a foreign language with a GPA of 3.04 or higher, take the required courses in Education, including Methods of Secondary Teaching, SED 425, and be interviewed by a faculty committee of the department. Students who have completed their degree elsewhere must complete the requirements of the CSUN credential major.

Students wishing to teach Spanish must choose the Language and Culture option of the major which is designed to meet the requirements of the Single Subject Teaching Credential. Students who have completed their degree elsewhere must complete successfully six upper division units in this department and meet the requirements of the CSUN credential major.

Students wishing to teach French or German should follow the single major outlined in the catalog. For details on the Credential program see the Credentials section of this Catalog or refer to the Index.

GENERAL EDUCATION ADVISEMENT: Students who have completed the first two semesters should see the chair or an advisor in the department to determine appropriate courses for the General Education Program.

ACADEMIC ADVISEMENT: Faculty advisors are available to both undergraduate and graduate students during registration, and throughout the semester during scheduled office hours.

CREDIT BY CHALLENGE EXAMINATION
See individual course descriptions to find out which courses may or may not be challenged. For procedures governing the challenging of language classes, please consult with the department office.

The Department of Modern and Classical Languages and Literatures supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Program Study Centers abroad are equivalent to courses in the Department of Modern and Classical Languages and Literatures and may be used to fulfill some of the requirements for degree options offered by the Department and/or certain general education requirements. Students should consult the International Programs Bulletin available in the Office of International and Exchange Programs, a departmental advisor, or the campus International Programs Advisor for more information.

FOREIGN LITERATURES IN ENGLISH

TRANSLATION (FLIT)
In addition to its traditional curricula, the Department offers a number of foreign literature and culture courses taught in English that are designed for students who do not have the background to read the works in the original language.

Students are urged to consult the Foreign Literatures in Translation (FLIT) Section in the Schedule of Classes for offerings in Selected Topics courses.

COURSE LIST
LOWER DIVISION

150. GATEWAYS TO WESTERN CIVILIZATION: GREECE AND ROME (3)
May not be taken by students who have completed FLIT 350. Conducted in English. The basic elements of modern civilization have their origins in Greece and Rome. These are explored with emphasis on historical development and on their impact on contemporary society. (Available for General Education, Comparative Cultural Studies.)

245. INTRODUCTION TO GERMAN LITERATURE (3)
Prerequisite: Completion of the lower division writing requirement. Conducted in English. The study of representative works of the major genres of German literature: drama, prose fiction, poetry. Introduction to the technique of literary analysis. (Available for General Education, Humanities.)

295A. MASTERPIECES OF EUROPEAN LITERATURE I (3)
Prerequisite: Completion of the lower division writing requirement. Conducted in English. A course designed to introduce the student to masterpieces of European literature from the Middle Ages through the Classical period. (Available for General Education, Humanities.)

295B. MASTERPIECES OF EUROPEAN LITERATURE II (3)
Prerequisite: Completion of the lower division writing requirement. Conducted in English. A course designed to introduce the student to masterpieces of European literature from Romanticism to the modern period. (Available for General Education, Humanities.)

UPPER DIVISION

341. 20TH CENTURY EUROPEAN LITERATURE (3)
Prerequisite: Completion of the lower division writing requirement. Conducted In English. This course examines major trends and themes in fiction and drama of Eastern
and Western Europe in the 20th century. Readings will be supplemented by required or recommended viewing of films and videotapes. Critical writing required. (Available for General Education, Humanities.)

350. THE CLASSICAL WORLD & WESTERN CIVILIZATION (3)
Prerequisite: Completion of the lower division writing requirement. Conducted in English. May not be taken by students who have completed FLIT 150. This survey course examines the influence of the ancient Greek and Roman cultures on Western Civilization. It includes an examination of primary materials, e.g., inscriptions, documents, poems, plays, historical writings, etc., which become the subjects for extensive study for reports and papers. (Available for General Education, Comparative Cultural Studies.)

380. CULTURAL DEVELOPMENT OF MODERN RUSSIA AND EASTERN EUROPE (3)
Prerequisite: Completion of the lower division writing requirement. Conducted in English. This course examines the cultural history and current developments of the Slavic people in the USSR and Eastern Europe, and traces the role of these people in American culture and society. (Available for General Education, Comparative Cultural Studies.)

390. JAPANESE LITERATURE (3)
No prerequisite. Conducted in English. A survey of Japanese literature from earliest times to the present with particular emphasis on Japanese cultural values as applied to Western literary forms (same as Japanese 402).

423. THE GREEK AND ROMAN EPIC IN TRANSLATION (3)
Conducted in English. This course will trace the development of the epic genre in antiquity. Emphasis will be on readings from Homer’s Iliad, Odyssey, and Virgil’s Aeneid. (Same as English 423.)

424. DRAMA OF GREECE AND ROME (3)
Conducted in English. Analysis of major Greek and Roman plays as literature and as works for the theater. (Same as English 424.)

426. DRAMA FROM 1660 TO IBSEN (3)
Conducted in English. Study of significant plays of the Neo-classic period, Romanticism, Realism, and Naturalism. (Same as English 426.)

427. DRAMA FROM IBSEN TO THE PRESENT (3)
Conducted in English. Development of significant theater movements in Europe and America; intensive study of selected plays. (Same as English 427.)

435. SELECTED WRITERS IN 20TH CENTURY FRENCH FICTION (3)
Conducted in English. An examination of the most significant novels and short stories of 20th century France. Cannot be applied toward major or minor requirements in French.

435. WOMEN WRITERS OF ASIA (3)
Prerequisite: Completion of the lower division writing requirement. Conducted in English. A study of selected literary works by women of Asia. The course will examine the role of gender and women’s creativity in response to the religious and ideological currents and social conditions in the region.

450. SELECTED WRITERS IN 20TH CENTURY LATIN AMERICAN FICTION (3)
Conducted in English. An examination of the most significant literary works in 20th century Latin America. Cannot be applied toward major or minor requirements in Spanish.

479. ASIAN LITERATURE IN TRANSLATION (3)
Conducted in English. Study of representative works of near and far Eastern literature in translation. (Same as English 479.)

480. GREEK AND ROMAN LITERATURE IN TRANSLATION (3)
Conducted in English. Study of representative works of classical literature in translation, and a consideration of their contributions to western thought. (Same as English 480.)

483. EUROPEAN LITERATURE: MODERN TIMES (3)
Conducted in English. A study of representative European works from 1700 to the present; consideration of their contribution to western thought. (Same as English 483.)

485. MAJOR RUSSIAN WRITERS (3)
Conducted in English. Study of major Russian writers with emphasis on writers of the pre-revolutionary period. (Same as English 485.)

486. GERMANIC LITERATURE IN TRANSLATION (3)
Conducted in English. Study of representative German and Scandinavian works from the medieval age to modern times. (Same as English 486.)

488. MAJOR EUROPEAN NOVELISTS I: LACLOS TO ZOLA (3)
Conducted in English. Study of selected works by outstanding Continental writers of the late eighteenth through the nineteenth centuries. (Same as English 488.)

489. MAJOR EUROPEAN NOVELISTS II: PROUST TO CAMUS (3)
Conducted in English. Study of selected works by outstanding Continental writers of the twentieth century. (Same as English 489.)

496A-Z. EXPERIMENTAL COURSES—FOREIGN LITERATURE IN TRANSLATION (3)
Prerequisite: Upper division standing. Conducted in English. Selected topics in Foreign Literature in Translation with course content to be determined.

499. INDEPENDENT STUDY (1-3)

560. LATIN AMERICAN WOMAN WRITERS (3)
Prerequisite: Spanish 306, 307. A topical study of selected works of Latin American women writers, exploring women’s literary traditions and their relationships to mainstream literary movements. Application of recent trends in literary theories and critical methodologies will be emphasized. Conducted in Spanish.
ARMENIAN
(In the Department of Modern And Classical Languages and Literatures)

COURSE LIST
LOWER DIVISION
101. ELEMENTARY ARMENIAN I (3)
A study of the fundamentals of Armenian: alphabet and additional sounds, grammatical structure, reading, writing and practice in the spoken language. (Available for General Education, Comparative Cultural Studies.)

102. ELEMENTARY ARMENIAN II (3)
Prerequisite: Completion of Armenian 101 or equivalent. Continuation of the study of the fundamentals of Armenian. (Available for General Education, Comparative Cultural Studies.)

201. INTERMEDIATE ARMENIAN I (3)
Prerequisite: Completion of Armenian 102 or equivalent. Intensive practice in pronunciation, conversation and writing. Brief review of grammar and study of more advanced grammatical concepts. Introduction to reading of literature and study of Armenian culture. (Available for General Education, Comparative Cultural Studies.)

202. INTERMEDIATE ARMENIAN II (3)
Prerequisites: Armenian 201 or equivalent. Extensive grammar study designed to increase students’ proficiency in writing, and to clarify and deepen their understanding of Armenian syntax. Readings and discussions of representative Armenian essays, short stories, plays and poetry. Cultural issues are an integral part of this course. (Available for General Education, Comparative Cultural Studies.)

310. ARMENIAN CULTURE (3)
Prerequisite: Completion of the lower division writing requirement. Course will cover all aspects of the Armenian Culture from ancient civilization to modern day life both in Armenia and in the Diaspora. It will introduce the Armenian culture: language, literature, history including waves of immigration to the USA and the Genocide of 1915, religion, political parties, music, visual and performing arts, architecture, tapestry, customs, holidays, and ethnic food. Daily class participation and regular written assignments will be required. (Available for General Education, Comparative Cultural Studies.)

CHINESE
(In the Department of Foreign Languages and Literatures)

COURSE LIST
101, 101C. ELEMENTARY MANDARIN CHINESE I (4)
A study of the fundamentals of Mandarin Chinese: grammatical structure, reading, practice in the spoken language. 101C, a one-unit conversational module emphasizing development of oral skills, is an integral part of the course and must be taken concurrently with 101. Not open to students with oral proficiency or who have attended schools where Mandarin was the language of instruction. May not be challenged. Credit will not be given for both 101/101C and 103. (Available for General Education, Comparative Cultural Studies.)

102, 102C. ELEMENTARY MANDARIN CHINESE II (4)
Prerequisite: Completion of 101/101C or permission of instructor. Continuation of the study of the fundamentals of Mandarin Chinese. 101C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 102. Not open to students with oral proficiency or who have attended schools where Mandarin was the language of instruction. May not be challenged. Credit will not be given for both 102/102C and 104. (Available for General Education, Comparative Cultural Studies.)

103. ELEMENTARY WRITTEN CHINESE (MANDARIN) I (3)
Open only to those students with oral fluency in Mandarin. This class will emphasize the development of reading and writing skills and will include the study of specific areas of grammar. Taught in Mandarin. Credit will not be given for both 101/101C and 103. Entrance by permission of instructor, subject to verification of oral skills at the beginning of semester. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

104. ELEMENTARY WRITTEN CHINESE (MANDARIN) II (3)
Prerequisite: Completion of Chinese 103 or permission of instructor. Continuation of Chinese 103, with reading and writing at a more advanced level. Taught in Mandarin. Credit will not be given for both 102/102C and 104. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

201. INTERMEDIATE MANDARIN CHINESE I (3)
Prerequisite: Chinese 102/102C or 104 or equivalent. May not be challenged if principal schooling has been in Mandarin. (Available for General Education, Comparative Cultural Studies.)

202. INTERMEDIATE MANDARIN CHINESE II (3)
Prerequisite: Chinese 201. Recapitulation of basic grammar; intense practice in reading and writing; reading of short stories, poems and essays, and analysis of the reading. May not be challenged if principal schooling has been in Mandarin. (Available for General Education, Comparative Cultural Studies.)

499. INDEPENDENT STUDY (1-3)
CLASSICS
(In the Department of Modern And Classical Languages and Literatures)

ADVISORS: Adams

THE MINOR: The Classics section offers courses in Greek and Latin languages, literatures, and civilizations.

The minor is designed for students who desire to become acquainted with the literature and culture of Ancient Greece and Rome, who need Latin as a necessary background for an understanding of the development of the Romance Languages, or who plan to teach.

Students with advanced placement:
1. Cannot receive credit for courses below the level at which they are enrolled.
2. Must include additional courses approved by an advisor to complete the minor.

LOWER DIVISION REQUIRED COURSES (12 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CLAS 101L</td>
<td>Elementary Latin I</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 102L</td>
<td>Elementary Latin II</td>
<td>3</td>
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<tr>
<td>CLAS 201L</td>
<td>Intermediate Latin I</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 202L</td>
<td>Intermediate Latin II</td>
<td>3</td>
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UPPER DIVISION REQUIRED COURSES (12 UNITS)

Take four of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 315</td>
<td>Greek and Roman Mythology</td>
<td>3</td>
</tr>
<tr>
<td>FLIT 423</td>
<td>The Greek and Roman Epic</td>
<td>3</td>
</tr>
<tr>
<td>FLIT 480</td>
<td>Greek and Roman Literature</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 496A-Z</td>
<td>Experimental Courses in Classics</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN GENERAL MINOR (24 UNITS)

COURSE LIST
Interviews with instructors designed to place lower division students at appropriate levels of language achievement will be given before registration week.

LOWER DIVISION

101G. ELEMENTARY GREEK I (3)
The fundamentals of Attic Greek; reading of a simplified nature from Xenophon's Anabasis. (Available for General Education, Comparative Cultural Studies.)

102G. ELEMENTARY GREEK II (3)
Continuation of Elementary Greek I. (Available for General Education, Comparative Cultural Studies.)

101L. ELEMENTARY LATIN I (3)
An introduction to the structure of Latin with emphasis on reading Latin and on the role of Latin to the development of English. (Available for General Education, Comparative Cultural Studies.)

102L. ELEMENTARY LATIN II (3)
Continuation of Latin 101. (Available for General Education, Comparative Cultural Studies.)

201L. INTERMEDIATE LATIN I (3)
Prerequisite: Classics 102L. Reading and analysis of selected Latin prose.

202L. INTERMEDIATE LATIN II (3)
Prerequisite: Classics 201L. Reading and analysis of classical Latin poetry.

UPPER DIVISION

315. GREEK AND ROMAN MYTHOLOGY (3)
Prerequisites: Completion of the lower-division writing requirement. Conducted in English. The study of the myths of Greeks and Romans and of their impact on the literature of the Western world. (Available for General Education, Humanities.)

496A-Z. EXPERIMENTAL COURSES IN CLASSICS (3)
Prerequisite: Upper division standing. Selected topics in Classics with course content to be determined.

499G. INDEPENDENT STUDY-GREEK (1-3)

499L. INDEPENDENT STUDY-LATIN (1-3)
FRENCH

(Interdepartmental Department of Modern And Classical Languages and Literatures)

ADVISORS: Ford, Mandel.

THE MAJOR: The French major provides an opportunity for students to pursue intensive study in the language, literatures and cultures of the French-speaking world, in order to prepare themselves to teach in the schools, to pursue a career in which a strong background in French language and culture is essential, or to pursue graduate work in French/ Francophone literatures and cultures.

Interviews with instructors, designed to place lower division students at appropriate levels of language achievement, will be given before registration. Students may also wish to take the F-CAPE placement test (available in the Language Learning Resource Center, Jerome Richfield 316) and discuss its results with an advisor before registering.

Students with advanced placement cannot receive credit for courses below the level at which they are enrolled. However, 200-level classes may be waived or replaced by appropriate classes. Please consult an advisor.

CAREERS: In our multicultural, global community French, with over 150,000,000 speakers, is a major means of communication between peoples in over forty countries of the world. As such, it is essential both for students who anticipate a career as teachers of French language, civilization and culture and for those who see the study of French as an adjunct to studies in another field. Careers for these students are available in such areas as: international business, the tourist industry (including hotel and restaurant management) and public services, both with local and national governmental agencies and with international agencies such as the UN, NAFTA and the European community.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

Table: Requirements for the Bachelor of Arts Degree

<table>
<thead>
<tr>
<th>LOWER DIVISION REQUIRED COURSES (9 UNITS)</th>
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<tbody>
<tr>
<td>FREN 200 Beginning French Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FREN 204 Review of French Grammar</td>
<td>3</td>
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<tr>
<td>FREN 208 Intermediate Reading and Writing</td>
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<tr>
<th>LOWER DIVISION ELECTIVES (3 UNITS)</th>
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<tbody>
<tr>
<td>Choose one from the following:</td>
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<tr>
<td>FLIT 295A Masterpieces of European Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FLIT 295B Masterpieces of European Literature II</td>
<td>3</td>
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<thead>
<tr>
<th>UPPER DIVISION REQUIRED COURSES (21 UNITS)</th>
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<tbody>
<tr>
<td>FREN 300 Advanced French Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FREN 305 French Pronunciation and Diction</td>
<td>3</td>
</tr>
<tr>
<td>FREN 315A Masterpieces of French Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FREN 315B Masterpieces of French Literature II</td>
<td>3</td>
</tr>
<tr>
<td>FREN 380 French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FREN 381 The Contemporary French World</td>
<td>3</td>
</tr>
<tr>
<td>LING 412 Second Language Acquisition</td>
<td>3</td>
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</tbody>
</table>

(Majors not preparing the Single-Subject Credential may substitute --after approval by a French Advisor--another 300- or 400-level class.)

<table>
<thead>
<tr>
<th>UPPER DIVISION ELECTIVES (15 UNITS)</th>
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<tbody>
<tr>
<td>Choose one from the following:</td>
<td></td>
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<tr>
<td>FREN 312 Readings in French for Business</td>
<td>3</td>
</tr>
<tr>
<td>FREN 405 Art of Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one from the following:

| ANTH 310 Anthropological Linguistics      | 3 |
| ENGL 381 Language and Linguistics         | 3 |

TOTAL UNITS IN THE MAJOR (48 UNITS)

GENERAL EDUCATION (46-49 UNITS)

The French major satisfies Section C.1; Anthropology 310 (if taken) satisfies Section F.1.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (21-24 UNITS)

TOTAL UNITS REQUIRED FOR B.A. DEGREE: 124

MINORS IN FRENCH

I. GENERAL MINOR

<table>
<thead>
<tr>
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</tr>
<tr>
<td>FREN 208 Intermediate Reading and Writing</td>
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</table>

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<tr>
<th>LOWER DIVISION ELECTIVES (3 UNITS)</th>
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<tbody>
<tr>
<td>Choose one from the following:</td>
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</tr>
<tr>
<td>FLIT 295A Masterpieces of European Literature I</td>
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<tr>
<td>FLIT 295B Masterpieces of European Literature II</td>
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<tr>
<th>UPPER DIVISION REQUIRED COURSES (6 UNITS)</th>
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<tbody>
<tr>
<td>FREN 305 French Pronunciation and Diction</td>
<td>3</td>
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<tr>
<td>FREN 306 Advanced Composition</td>
<td>3</td>
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</tbody>
</table>

One additional upper-division course chosen in consultation with an advisor (3 Units).

TOTAL UNITS IN GENERAL MINOR (24 UNITS)

II. MINOR IN FRENCH FOR BUSINESS MAJORS

<table>
<thead>
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<td>3</td>
</tr>
<tr>
<td>FREN 208 Intermediate Reading and Writing</td>
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</table>

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<tr>
<th>UPPER DIVISION REQUIRED COURSES (15 UNITS)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>FREN 300 Advanced Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FREN 306 Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>FREN 312 Readings in French for Business</td>
<td>3</td>
</tr>
<tr>
<td>FREN 313 Beginning Commercial Correspondence</td>
<td>3</td>
</tr>
<tr>
<td>FREN 381 The Contemporary French World</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN BUSINESS MINOR (24 UNITS)
Lower Division

101, 101C. Elementary French I (4)
A study of the fundamentals of French: grammatical structures, reading, practice in the spoken language. 101C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 101. Not open to students who have attended schools where French was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

102, 102C. Elementary French II (4)
Prerequisite: Completion of French 101/101C or equivalent. Continuation of the study of the fundamentals of French: grammatical structures, reading, practice in the spoken language. 102C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 102. Not open to students who have attended schools where French was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

200. Beginning French Conversation (3)
Prerequisite: French 102 or equivalent. Can be taken concurrently with French 103. Not open to students who have attended schools where French was the language of instruction. May not be challenged. A course intended to develop students’ aural-oral skills and to improve their fluency in spoken French. (Available for General Education, Comparative Cultural Studies.)

204. Review of French Grammar (3)
Prerequisite: French 102. Extensive grammar study intended to clarify and deepen the students’ understanding of French grammar through a thorough review of its basic concepts. Should be taken concurrently with French 208. May not be challenged if principal schooling has been in French. (Available for General Education, Comparative Cultural Studies.)

208. Intermediate French Reading and Writing (3)
Prerequisite: FREN 102 or equivalent. In this course, students will acquire the techniques and strategies necessary to read and write French at appropriate intermediate levels. May not be challenged if principal schooling has been in French.

Upper Division

300. Advanced French Conversation (3)
Prerequisite: Upper division standing in French. A course intended to encourage majors and minors in French engaged in the junior-year program to develop further their ability to express themselves in the French language. Not open to students who have attended schools where French was the language of instruction. May not be challenged.

305. French Pronunciation and Diction (3)
Prerequisite: Upper division standing in French. A course in applied phonetics. Students will apply what they learn about the nature of French sounds toward improving their pronunciation by means of dramatic readings ranging from simple prose to poetry and drama.

306. Advanced Composition (3)
Prerequisites: Upper division standing in French. A course devoted to the analysis of types of French style and to the practical application of these type patterns in writing.

312. Readings in French for Business (3)
Prerequisite: Upper-division standing in French (completion of French 306 is recommended). Readings and discussion of texts dealing with various aspects of business, designed to introduce the students to the basic vocabulary and structures of commercial French.

313. Beginning Commercial Correspondence (3)
Prerequisites: French 312. This course will introduce students to the basic principles of business correspondence in French.

315A. Masterpieces of French Literature (3)
Prerequisite: Upper division standing in French. A course designed to introduce the student to the highlights of French literature from the Middle Ages to the Classical period.

315B. Masterpieces of French Literature II (3)
Prerequisite: Upper division standing in French. A course designed to introduce the student to the highlights of French literature from the 18th century to the contemporary period.

380. French Civilization (3)
Prerequisite: Upper division standing in French. A study of the historical, cultural, and societal evolution of the French people from the earliest records to the contemporary period.

381. The Contemporary French World (3)
(Formerly 310)
Prerequisite: Upper division standing in French. A course in advanced conversation, focusing on aspects of modern culture.

405. The Art of Translation (3)
Prerequisite: Upper division standing in French or consent of the instructor. An examination of the similarities and differences between English and French idiom and syntax by means of translation exercises ranging from colloquial to literary in nature.

406. Textual Analysis and Composition (3)
Prerequisites: French 306 or 313, and French 315A or B. It is recommended that this course be taken before enrollment in French 415D/F/P. A course designed to assist the student in acquiring literary analytical faculties and in applying these stylistic techniques to written analysis based upon classroom discussion, explication in class, and the student’s developing sensitivities to structure, style, and composition.

415D. French Drama (3)
Prerequisite: Upper division standing in French. An examination of French drama from the medieval period to the twentieth century.

415F. French Fiction (3)
Prerequisite: Upper division standing in French. A study of selected French novels and short stories tracing the development of the genre from the Middle Ages to the present.

415P. French Poetry (3)
Prerequisite: Upper division standing in French or consent of instructor. A study of French poetry as a genre from its origins to its modern manifestations in the 19th and 20th centuries.
496A-Z. EXPERIMENTAL COURSES IN FRENCH LITERATURE (3)
Prerequisites: Senior standing and one upper division course in French literature. Selected topics in French literature with course content to be determined.

499. INDEPENDENT STUDY (1-3)

GRADUATE
(300-level courses in French do not carry graduate credit for a master’s degree in French. German 301 and 302 or Spanish 301 and 302 may be taken to meet the foreign language graduate reading requirement. For ways of meeting this requirement see Foreign Language Reading Examination.)
(400-level courses in French carry credit for a master’s degree in French if they are approved by the French Graduate Advisors.) All graduate-level classes are conducted in French.

500. HISTORY OF THE FRENCH LANGUAGE (3)
The development of French from Latin to the present.

514. SEMINAR IN LITERATURE AND SOCIETY (3)
Study of the relationship of literature to the society that nurtured it. Literary period(s) or author(s) to vary from semester to semester.

526. STUDIES IN FRENCH CULTURE (3)
Prerequisite: Completion of French 380 or the equivalent, or consent of the Graduate Advisor. A detailed analysis of the complex interplay of political, artistic, and intellectual forces at work at any given moment in history. The period treated will vary from semester to semester.

597. DIRECTED COMPREHENSIVE STUDIES

599. INDEPENDENT STUDY (1-6)
GERMAN

(In the Department of Modern And Classical Languages and Literatures)

ADVISORS: Spielmann.

THE MAJOR: The German major provides an opportunity for students to pursue intensive study in the language, literatures, and cultures of the German-speaking world, in order to prepare themselves to teach in the schools, or to pursue a career in which a strong background in German language and culture is essential, or to pursue graduate work in German literature. Before selecting the upper division courses best suited to their goals, students should seek guidance from an advisor.

Interviews with instructors, designed to place lower division students at appropriate levels of language achievement, will be given before registration. Students with advanced placement cannot receive credit for courses below the level at which they are enrolled. However, 200-level classes may be waived or replaced by appropriate classes. Please consult an advisor.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

LOWER DIVISION REQUIRED COURSES (15 UNITS)

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>GERM 101</td>
<td>Elementary German I</td>
<td>4</td>
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<tr>
<td>GERM 101C</td>
<td>Elementary German 1</td>
<td>4</td>
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<tr>
<td>GERM 102</td>
<td>Elementary German II</td>
<td>4</td>
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<td>GERM 102C</td>
<td>Elementary German 2</td>
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<tr>
<td>GERM 201</td>
<td>Intermediate German</td>
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<tr>
<td>GERM 202</td>
<td>Intermediate German Reading</td>
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<tr>
<td>GERM 204</td>
<td>Intermediate German</td>
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UPPER DIVISION REQUIRED COURSES (21 UNITS)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GERM 300</td>
<td>Advanced Conversation</td>
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<tr>
<td>GERM 304</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERM 310</td>
<td>The Contemporary German-Speaking World</td>
<td>3</td>
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<tr>
<td>GERM 315A</td>
<td>Masterpieces of German Literature I</td>
<td>3</td>
</tr>
<tr>
<td>GERM 315B</td>
<td>Masterpieces of German Literature II</td>
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</table>

UPPER DIVISION ELECTIVES (12 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>GERM 310</td>
<td>The Contemporary German-Speaking World</td>
<td>3</td>
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<tr>
<td>GERM 300</td>
<td>Advanced Conversation</td>
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<tr>
<td>GERM 315A</td>
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<tr>
<td>GERM 315B</td>
<td>Masterpieces of German Literature II</td>
<td>3</td>
</tr>
<tr>
<td>GERM 310</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERM 304</td>
<td>Advanced Composition</td>
<td>3</td>
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<tr>
<td>GERM 400</td>
<td>Structure of the German Language</td>
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<td>GERM 404</td>
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<tr>
<td>GERM 405</td>
<td>The Art of Translation</td>
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<tr>
<td>GERM 431</td>
<td>Modern German Literature</td>
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</tr>
<tr>
<td>GERM 450</td>
<td>The Age of Goethe</td>
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</tr>
<tr>
<td>GERM 496A-Z</td>
<td>Experimental Courses in German Lit.</td>
<td>3</td>
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</tbody>
</table>

TOTAL UNITS IN THE MAJOR (48 UNITS)

GENERAL EDUCATION (46-49 UNITS)

The German major satisfies Section C.1.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (21 UNITS)

TOTAL UNITS REQUIRED FOR B.A. DEGREE: 124

MINORS IN GERMAN

I. GENERAL MINOR

LOWER DIVISION REQUIRED COURSES (9 UNITS)

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<tr>
<th>Course Code</th>
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<tr>
<td>GERM 201</td>
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<tr>
<td>GERM 202</td>
<td>Intermediate German Reading</td>
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</tr>
<tr>
<td>GERM 204</td>
<td>Intensive German Grammar</td>
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UPPER DIVISION REQUIRED COURSES (15 UNITS)

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<tbody>
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<td>GERM 304</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERM 310</td>
<td>The Contemporary German-Speaking World</td>
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<tr>
<td>GERM 315A</td>
<td>Masterpieces of German Literature I</td>
<td>3</td>
</tr>
<tr>
<td>GERM 315B</td>
<td>Masterpieces of German Literature II</td>
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TOTAL UNITS IN GENERAL MINOR (24 UNITS)

II. MINOR IN GERMAN FOR BUSINESS MAJORS

LOWER DIVISION REQUIRED COURSES (9 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>GERM 201</td>
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<td>3</td>
</tr>
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UPPER DIVISION REQUIRED COURSES (15 UNITS)

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<th>Units</th>
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</thead>
<tbody>
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<td>GERM 304</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERM 310</td>
<td>The Contemporary German-Speaking World</td>
<td>3</td>
</tr>
<tr>
<td>GERM 312</td>
<td>Readings in German for Business</td>
<td>3</td>
</tr>
<tr>
<td>GERM 313</td>
<td>Beginning Commercial Correspondence</td>
<td>3</td>
</tr>
<tr>
<td>GERM 404</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN BUSINESS MINOR (24 UNITS)

COURSE LIST

LOWER DIVISION

101, 101C. ELEMENTARY GERMAN 1 (4)

A study of the fundamentals of German: grammatical structures, reading, practice in the spoken language. 101C, a one-unit conversational module, emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 101. Not open to students who have attended schools where German was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

102, 102C. ELEMENTARY GERMAN II (4)

Prerequisite: Completion of German 101/101C or equivalent. Continuation of the study of the fundamentals of German: grammatical structures, reading, practice in the spoken language. 102C, a one-unit conversational module, emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 102. Not open to students who have attended schools where German was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

201. INTERMEDIATE GERMAN (3)

Prerequisite: Completion of German 102 or equivalent. Brief review of grammar and study of more advanced grammatical concepts. Introduction to the reading of literature. May not be challenged if principal schooling has been in German. (Available for General Education, Comparative Cultural Studies.)
202. INTERMEDIATE GERMAN READING (3)
Prerequisite: German 201 or equivalent. Readings and discussion of German essays, short stories, poetry, and plays. No formal grammar. May be taken concurrently with German 204. May not be challenged if principal schooling has been in German. (Available for General Education, Comparative Cultural Studies.)

204. INTENSIVE GERMAN GRAMMAR (3)
Prerequisite: German 201 or equivalent. A one-semester course consisting of extensive grammar review. May be taken concurrently with German 202. May not be challenged if principal schooling has been in German. (Available for General Education, Comparative Cultural Studies.)

UPPER DIVISION

300. GERMAN CONVERSATION (3)
Prerequisite: Completion of German 202 or 204. Native speakers not admitted. A course designed to improve the conversational skills of German majors and minors.

304. ADVANCED GRAMMAR AND COMPOSITION (3)
Prerequisite: Upper division standing in German. A one-semester course consisting of the study of difficult problems of syntax peculiar to the German language, with composition exercises designed to develop the student’s command of the written language.

310. THE CONTEMPORARY GERMAN-SPEAKING WORLD (3)
Prerequisite: Upper division standing in German. A course in advanced conversation, focusing on aspects of modern culture.

312. READINGS IN GERMAN FOR BUSINESS (3)
Prerequisite: Completion of German 304. Readings and discussion of texts dealing with various aspects of business, designed to introduce the student to the basic vocabulary and structures of commercial German.

313. BEGINNING COMMERCIAL CORRESPONDENCE (3)
Prerequisite: Completion of German 312. This course will introduce students to the basic principles of business correspondence in German.

315A. MASTERPIECES OF GERMAN LITERATURE I (3)
Prerequisite: Upper division standing in German. A course designed to introduce the student to the highlights of German literature from its origins through the classical period.

315B. MASTERPIECES OF GERMAN LITERATURE II (3)
Prerequisite: Upper division standing in German. A course designed to introduce the student to the highlights of German literature from Romanticism to the modern period.

380. GERMAN CIVILIZATION (3)
Prerequisite: Upper division standing in German. A survey of cultural development from earliest times to the present with special emphasis on pre-18th century manifestations: Hohenstaufen Age, Mystics, Humanism, Reformation, Baroque.

390. GERMAN PRONUNCIATION AND DICTION (3)
Prerequisite: Upper division standing in German. A course in applied phonetics. The students will apply what they learn about the nature of German sounds toward improving their pronunciation by means of dramatic readings ranging from simple prose to poetry and drama.

391. GERMAN PLAY (3)
Prerequisite: Personal interview and audition. The study and performance of a full-length German play to be chosen from the range of German drama. May be repeated once.

400. STRUCTURE OF THE GERMAN LANGUAGE (3)
Prerequisite: Upper division standing in German. A study of the language, emphasizing concepts of phonetics, phonemics, syntax, and intonation.

404. ADVANCED COMPOSITION (3)
Prerequisite: Completion of German 304. Analysis and evaluation of German style with practice exercises designed to develop the student’s command of the written language.

405. THE ART OF TRANSLATION (3)
Prerequisite: Upper division standing in German or consent of instructor. This course will focus on similarities and differences between English and German idiom and syntax by means of translation exercises which will range from everyday spoken German (Umgangs Sprache) to Newspaper German and literary German, including poetry. It may be taken as an option to German 404, Advanced Composition.

431. MODERN GERMAN LITERATURE (3)
Prerequisite: Upper division standing in German. A study of the most significant works by German writers of the first half of the 20th century.

450. THE AGE OF GOETHE (3)
Prerequisite: Upper division standing in German. A course designed as a survey of the Storm and Stress and Classical periods, with special emphasis on the major works of Goethe and Schiller.

451. THE ROMANTIC AGE IN GERMANY (3)
Prerequisite: Upper division standing in German. A survey of the Romantic movement with readings of the representative works of the major Romantic writers.

496A-Z. EXPERIMENTAL COURSES IN GERMAN LITERATURE (3)
Prerequisite: Upper division standing in German. Selected topics in German literature with course content to be determined.

499. INDEPENDENT STUDY (1-3)
HEBREW
(In the Department of Modern And Classical Languages and Literatures)

COURSE LIST

LOWER DIVISION

101, 101C. ELEMENTARY HEBREW I (4)
This course is only open to students who are beginning their study of Hebrew. Not open to students who have attended schools where Hebrew was the language of instruction. A study of the fundamentals of Hebrew: grammatical structure, reading, practice in the spoken language. 101C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 101. Credit will not be given for both 101/101C and 101A. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

101A. ELEMENTARY HEBREW FOR THE NON-BEGINNER (3)
Open only to students whose previous study of Hebrew has included the alphabet, reading the printed form, cursive writing, and the acquisition of a basic vocabulary. This class will stress the development of reading, writing, grammatical knowledge, oral skills, and cultural development. Credit will not be given for both 101A and 101/101C. Entrance by permission of instructor. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

102, 102C. ELEMENTARY HEBREW II (4)
Prerequisite: Completion of Hebrew 101/101C or 101A. Continuation of the study of the fundamentals of Hebrew: grammatical structure, reading, practice in the spoken language. 102C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 102. Not open to students who have attended schools where Hebrew was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

201. INTERMEDIATE HEBREW I (3)
Prerequisite: Hebrew 102. Three hours lecture. May not be challenged if principal schooling has been in Hebrew. (Available for General Education, Comparative Cultural Studies.)

ITALIAN
(In the Department of Modern And Classical Languages and Literatures)

ADVISOR: Costantini

MINOR IN ITALIAN

Students with advanced placement:
1. Cannot receive credit for courses below the level at which they are enrolled.
2. Must include additional courses approved by advisor to complete the minor.

LOWER DIVISION REQUIRED COURSES (9 UNITS)

ITAL 201 Intermediate Italian I ....................................6
ITAL 202 Intermediate Italian II...................................6
ITAL 204 Intermediate Italian Grammar & Composition .............................................3

UPPER DIVISION REQUIRED COURSES (12 UNITS)

ITAL 300 Advanced Conversational Italian.................3
ITAL 305 Structure of the Italian Language................3
ITAL 315 Masterpieces of Italian Literature ...............3

Choose one from the following:
ITAL 330 Italian Civilization from the Middle Ages to Renaissance .........................3
ITAL 496A-Z Experimental Courses in Italian Lit. ........3

TOTAL UNITS IN GENERAL MINOR (21 UNITS)

COURSE LIST

LOWER DIVISION

101, 101C. ELEMENTARY ITALIAN I (4)
A study of the fundamentals of Italian: grammatical structures, reading, practice in the spoken language. 101C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 101. Not open to students who have attended schools where Italian was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

102, 102C. ELEMENTARY ITALIAN II (4)
Prerequisite: Completion of Italian 101/101C or equivalent. Continuation of the study of the fundamentals of Italian: grammatical structures, reading, practice in the spoken language. 102C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 102. Not open to students who have attended schools where Italian was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

201. INTERMEDIATE ITALIAN I (3)
Prerequisite: Italian 102. May not be challenged if principal schooling has been in Italian. (Available for General Education, Comparative Cultural Studies.)

202. INTERMEDIATE ITALIAN II (3)
Prerequisite: Italian 201. Brief review of grammar. Intensive practice in pronunciation and conversation. Reading of essays, short stories, plays, study of some problems pertinent to Italian culture. May be taken concurrently with Italian 204. May not be challenged if principal schooling has been in Italian. (Available for General Education, Comparative Cultural Studies.)
204. INTERMEDIATE ITALIAN GRAMMAR & COMPOSITION (3)
Prerequisite: Completion of Italian 201 or consent of instructor. A one-semester course for non-native speakers consisting of extensive grammar review and literary composition. May be taken concurrently with Italian 202. May not be challenged if principal schooling has been in Italian. (Available for General Education, Comparative Cultural Studies.)

300. ADVANCED CONVERSATIONAL ITALIAN (3)
Prerequisite: Italian 204. A one-semester course intended to encourage students to further develop their ability to express themselves in the Italian language.

305. STRUCTURE OF THE ITALIAN LANGUAGE (3)
Prerequisite: Italian 204. A one-semester course devoted to the analysis of the structure of Italian.

315. MASTERPIECES OF ITALIAN LITERATURE (3)
Prerequisite: Italian 202. A course designed to present the highlights of Italian literature from its origins to the contemporary period.

330. ITALIAN CIVILIZATION FROM THE MIDDLE AGES TO THE RENAISSANCE (3)
Prerequisite: Italian 202. History, literature and art will be used to introduce some of the high points in Italian civilization, from the literature of Dante, Petrarch, Boccaccio and Ariosto to the art of Masaccio, Giotto, Michelangelo and the political thought of Machiavelli and Guicciardini.

496A-Z. EXPERIMENTAL COURSES IN ITALIAN LITERATURE (3)
Prerequisite: Completion of Italian 315. Selected topics in Italian literature with course content to be determined.

499. INDEPENDENT STUDY (1-3)

JAPANESE

(In the Department of Modern And Classical Languages and Literatures)

ADVISORS: Hirota, Snyder

THE MINOR: The Minor in Japanese is designed to provide students with language training and an understanding of Japanese society and culture as revealed through the study of the language and literature.

Students with previous studies in Japanese should consult the advisor for advanced placement and course selections to complete the minor.

Successful completion of the Minor in Japanese will be noted on the student's official CSUN transcript.

CAREERS: It prepares the students for teaching Japanese as well as for graduate programs in area studies, business and law that require the knowledge of the Japanese language. It will also help the students in careers in international business and law, public and community service, and communication and the media.

PREREQUISITE FOR THE MINOR (8 UNITS)
JAPN 101/C Elementary Japanese I.........................4
JAPN 102/C Elementary Japanese II.........................4

LOWER DIVISION REQUIRED COURSES (8 UNITS)
JAPN 201/C/L Intermediate Japanese I (2, 1, 1)...............4
JAPN 202/C/L Intermediate Japanese II (2, 1, 1).............4

UPPER DIVISION REQUIRED COURSES (12 UNITS)
Select four courses from the following:
JAPN 300 Advanced Japanese Conversation ............3
JAPN 304 Advanced Grammar and Composition ....3
JAPN 305 Language and Culture in Japanese............3
JAPN 306 Advanced Reading and Composition .......3
JAPN 402/FLIT 402 Japanese Literature ..................3

TOTAL UNITS IN GENERAL MINOR (20 UNITS)

COURSE LIST

101, 101C. ELEMENTARY JAPANESE I (4)
A study of the fundamentals of Japanese: grammatical structure, reading, practice in the spoken language. 101C, a one-unit conversational module emphasizing development of oral skills, is an integral part of the course and must be taken concurrently with 101. Not open to students with oral proficiency or who have attended schools where Japanese was the language of instruction. May not be challenged. Credit will not be given for both 101/101C and 103. (Available for General Education, Comparative Cultural Studies.)

102, 102C. ELEMENTARY JAPANESE II (4)
Prerequisite: Completion of Japanese 101/101C or permission of instructor. Continuation of the study of the fundamentals of Japanese: grammatical structure, reading, practice in the spoken language. 102C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 102. Not open to students with oral proficiency or who have attended schools where Japanese was the language of instruction. May not be challenged. Credit will not be given for both 102/102C and 104. (Available for General Education, Comparative Cultural Studies.)
201, 201C, 201CL. INTERMEDIATE JAPANESE I (2, 2, 1)
Prerequisite: Japanese 102/C or equivalent. 201 is a study of grammar and sentence patterns and written Japanese. 201C, a three-unit conversational module emphasizing development of oral/aural skills, must be taken concurrently with 201. Students with sufficient oral fluency and knowledge of fewer than 100 kanji (Chinese characters) may enroll in 201 only. The course may not be challenged. (Available for General Education, Comparative Cultural Studies.)

202, 202C, 202CL. INTERMEDIATE JAPANESE II (2, 2, 1)
Prerequisite: Japanese 201/C or equivalent. 202, a 2-unit linguistic lecture module, and 202C, a 3-unit conversational drill module, must be taken concurrently. Students with sufficient oral proficiency and knowledge of fewer than 250 kanji may enroll in 202 only. The course may not be challenged. (Available for General Education, Comparative Cultural Studies.)

300. ADVANCED JAPANESE CONVERSATION (3)
Prerequisite: Completion of second-year sequence in Japanese. A course designed to develop further the students’ ability to express themselves in spoken Japanese. Strongly recommended for students planning to participate in study abroad programs in Japan.

304. ADVANCED GRAMMAR AND COMPOSITION (3)
Prerequisite: Completion of second-year sequence in Japanese. A course consisting of advanced studies in grammar, syntax, and kanji (Chinese characters) with composition exercises designed to develop the students’ command of the written language.

305. LANGUAGE AND CULTURE IN JAPANESE (3)
Prerequisite: Japanese 300 or equivalent. Practice in communication utilizing grammatical and socio-linguistic studies. Through video presentation, role play, interpretation exercises, and other activities, the students describe the situation, identify any problems, and practice solving problems or accomplishing goals in a non-confrontational manner appropriate in the Japanese social context.

306. ADVANCED READING AND COMPOSITION (3)
Prerequisite: Japanese 304 or equivalent. The course aims to increase balanced skills in reading and writing. The readings focus on various aspects of Japanese society and values. Composition exercises are designed to develop ability to address intercultural differences and resulting problems.

402. JAPANESE LITERATURE (3)
No prerequisite. Conducted in English. A survey of Japanese literature from earliest times to the present with particular emphasis on Japanese cultural values as applied to Western literary forms. (Same as MCLL 402.)

499. INDEPENDENT STUDY (1-3)

RUSSIAN
(In the Department of Modern And Classical Languages and Literatures)

MINOR IN RUSSIAN

LOWER DIVISION REQUIRED COURSES (14 UNITS)

RUSS 101/C Elementary Russian I .........................4
RUSS 102/C Elementary Russian II .........................4
RUSS 201 Intermediate Russian I ..........................3

Choose one course from the following:

RUSS 200 Beginning Russian Conversation ...............3
RUSS 202 Intermediate Russian Reading .................3

These courses should be taken after consultation with the Advisor of the Russian program.

UPPER DIVISION REQUIRED COURSES (12 UNITS)
A total of twelve (12) units to be completed from the following two areas according to the student’s interest and background (qualifications), and upon approval by the Russian Advisor.

Area A (Language)

RUSS 308 Translating and Interpreting ....................3
RUSS 310 Advanced Composition and Conversation ....3
RUSS 407 Advanced Commercial Correspondence ....3

Area B (Literature and Culture)

RUSS 380 Russian Civilization ..............................3
RUSS 390 Russian Folklore: Slavic Myths and Traditions ..3
FLIT 485 Masterpieces of Russian Literature ............3

TOTAL UNITS IN THE MINOR (26 UNITS)

COURSE LIST

LOWER DIVISION

101, 101C. ELEMENTARY RUSSIAN I (4)
A study of the fundamentals of Russian: grammatical structures, reading, practice in the spoken language. 101C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 101. Not open to students who have attended schools where Russian was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

102, 102C. ELEMENTARY RUSSIAN II (4)
Prerequisite: Completion of Russian 101/101C. Continuation of the study of the fundamentals of Russian: grammatical structures, reading, practice in the spoken language. 102C, a one-unit conversational module emphasizing the development of oral skills, is an integral part of the course and must be taken concurrently with 102. Not open to students who have attended schools where Russian was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

200. BEGINNING RUSSIAN CONVERSATION (3)
Prerequisite: Russian 102 or consent of instructor. A course designed to develop the aural-oral skills of students of Russian and to improve their fluency in spoken Russian. Strongly recommended. Not open to students who have attended schools where Russian was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)
201. INTERMEDIATE RUSSIAN (3)
Prerequisite: Completion of Russian 102. Brief review of grammar and study of more advanced grammatical concepts. Introduction to the reading of literature. May not be challenged if principal schooling has been in Russian. (Available for General Education, Comparative Cultural Studies.)

202. INTERMEDIATE RUSSIAN READING (3)
Prerequisite: Russian 201. Continuation of study of fundamentals; introduction to Russian literature. May not be challenged if principal schooling has been in Russian. (Available for General Education, Comparative Cultural Studies.)

UPPER DIVISION

307. BEGINNING COMMERCIAL CORRESPONDENCE (3)
Prerequisite: Russian 201. This course will introduce students to the basic principles of business correspondence in Russian.

308. TRANSLATING AND INTERPRETING (3)
Prerequisite: Upper division standing in Russian. Practical translating and interpreting. Course may be repeated once for a total of 6 units of credit.

310. COMPOSITION AND CONVERSATION I (3)
Prerequisite: Completion of lower division courses or consent of instructor.

380. RUSSIAN CIVILIZATION (3)
Prerequisite: Consent of instructor and completion of the lower-division writing requirement. A study of the background of the salient features and institutions of contemporary Russian society.

390. RUSSIAN FOLKLORE: SLAVIC MYTHS & TRADITIONS (3)
Prerequisite: Consent of instructor. The epic ballads of early Russia, the fairytale and folk tale, modern ballads and folk songs, folklore, with emphasis on the role of the folk element in Russian literature, art, and music.

407. ADVANCED COMMERCIAL CORRESPONDENCE (3)
Prerequisite: Russian 307. This course will build on the skills acquired in Russian 307 and will enable students to conduct business correspondence in Russian on a professional level.

496A-Z. EXPERIMENTAL COURSES IN RUSSIAN LITERATURE (3)
Selected topics in Russian literature with course content to be determined.

499. INDEPENDENT STUDY (1-3)
**SPANISH**

(In the Department of Modern And Classical Languages and Literatures)

**UNDERGRADUATE ADVISORS:** Castronovo, Dimo, McCarty, Millner, Nelson, Pellarolo, Ramos, Rosas.

**GRADUATE ADVISOR:** Dimo

**MAJOR IN SPANISH**

The Spanish major - consisting of two options: Literature and Language Culture - is designed for students who wish to prepare for a career in secondary, college, or university teaching, or who intend to pursue other careers where a strong background in Spanish is essential. Students should seek advisement from Spanish faculty advisors concerning the option best suited to their goals.

Students with some knowledge of Spanish wishing to take lower division courses should take the Spanish placement exam before registration. The exam is available on a drop-in basis at certain hours or by appointment in the Language Learning Resource Center, JR 316. Students with advanced placement cannot receive credit for courses below the level at which they are enrolled. However, 200-level classes may be waived or replaced by appropriate classes. Please consult an advisor.

**REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE**

**OPTION I - LITERATURE**

**LOWER DIVISION REQUIRED COURSES (15 UNITS)**

Choose one from the following:

- SPAN 201A/L Communicating in Spanish
- SPAN 210B Intermediate Spanish Conversation
- SPAN 220A Intermediate Spanish I
- SPAN 220B Intermediate Spanish II
- FLIT 295A Masterpieces of European Literature I
- FLIT 295B Masterpieces of European Literature II

**UPPER DIVISION REQUIRED COURSES (33 UNITS)**

**A. Language Proficiency Development (9 Units)**

- SPAN 220B Intermediate Spanish II
- FLIT 295B Masterpieces of European Literature II

**B. Literary Analysis (3 Units)**

- SPAN 307 Introduction to the Analysis of Hispanic Literature

**C. Literature (9 Units)**

Choose three from the following:

- SPAN 315A Literature of Spain I
- SPAN 315B Literature of Spain II
- SPAN 363 Literature of Latin America I
- SPAN 364 Literature of Latin America II

**D. Civilization and Culture (3 Units)**

Choose one from the following:

- SPAN 380 Latin American Civilization
- SPAN 381 Spanish Civilization
- SPAN 382 Literature and Society in Latin America
- SPAN 383 Literature and Society in Spain

**E. Language and Linguistics (3 Units)**

Choose one from the following:

- SPAN 395 Spanish Phonetics
- SPAN 401 Language and Culture

**F. Electives (12 Units)**

Select three (3) courses from the following chosen to assure a balance between peninsular and Latin American.

- SPAN 508 Literature of the Middle Ages
- SPAN 509 Literature of the Renaissance
- SPAN 512 Golden Age Prose
- SPAN 513 Golden Age Poetry
- SPAN 518 Spanish Neoclassicism, Romanticism
- SPAN 519 Spanish Realism and Naturalism
- SPAN 520 Latin American Cinema and Literature
- SPAN 530 Latin American Novel
- SPAN 560 Latin American Women Writers
- SPAN 580 Spanish Literature from 1898 to 1936
- SPAN 581 Spanish Literature Since 1936
- SPAN 584 The Novel of the Mexican Revolution
- SPAN 587 The Contemporary Mexican Novel
- SPAN 596A-Z Experimental Courses in Spanish Lit

Select one course from the following with prior advisement (3 Units):


**OPTION II - LANGUAGE AND CULTURE**

**LOWER DIVISION REQUIRED COURSES (9 UNITS)**

Choose one from the following:

- SPAN 210A/L Communicating in Spanish
- SPAN 210B Intermediate Spanish Conversation
- SPAN 220A Intermediate Spanish I
- SPAN 220B Intermediate Spanish II

**UPPER DIVISION REQUIRED COURSES (39 UNITS)**

**A. Language Proficiency Development (9 Units)**

- SPAN 307 Advanced Grammar and Composition
- SPAN 306 Advanced Composition

Choose one from the following:

- SPAN 300 Advanced Conversational Spanish
- SPAN 310 Language and Contemporary Hispanic Life

**B. Language and Linguistic Analysis (9 Units)**

- SPAN 395 Spanish Phonetics
- SPAN 401 Language and Culture

Choose one from the following:

- SPAN 400 Comparative Structure of Spanish and English

**C. Literature and Literary Aspects of Culture (15 Units)**

- SPAN 307 Introduction to the Analysis of Hispanic Literature

**LITERATURE**

Choose one from Group A and one from Group B:

**Group A:**

- SPAN 315A Literature of Spain I
- SPAN 315B Literature of Spain II

**Group B:**

- SPAN 363 Literature of Latin America I
- SPAN 364 Literature of Latin America II

Choose one course from the following:

- SPAN 508 Literature of the Middle Ages
- SPAN 509 Literature of the Renaissance
- SPAN 512 Golden Age Prose
- SPAN 513 Golden Age Poetry
- SPAN 518 Spanish Neoclassicism and Romanticism
- SPAN 519 Spanish Realism and Naturalism
- SPAN 580 Spanish Literature from 1898 to 1936
- SPAN 581 Spanish Literature Since 1936
- SPAN 584 The Novel of the Mexican Revolution
- SPAN 587 The Contemporary Mexican Novel
- SPAN 496A-Z Experimental Courses in Spanish Lit

Choose one course from the following:

- SPAN 520 Latin American Cinema and Literature
- SPAN 550 Latin American Novel
- SPAN 560 Latin American Women Writers
- SPAN 584 Novel of the Mexican Revolution
- SPAN 587 The Contemporary Mexican Novel
D. Civilization and Culture (6 Units)
   Choose one from Group A and one from Group B
   Group A:
   SPAN 380 Latin American Civilization ....................3
   SPAN 382 Literature & Society in Latin America ..........3
   Group B:
   SPAN 381 Spanish Civilization ................................3
   SPAN 383 Literature & Society in Spain ..................3

TOTAL UNITS IN THE MAJOR (48 UNITS)

GENERAL EDUCATION (49 UNITS)
The Spanish major satisfies Section C.1.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (21 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 124

MINORS IN SPANISH

1. GENERAL MINOR

LOWER DIVISION REQUIRED COURSES (9 UNITS)
   SPAN 220A Intermediate Spanish I ........................3
   SPAN 220B Intermediate Spanish II ........................3
   Choose one from the following:
   SPAN 210A/L Communicating in Spanish ................3
   SPAN 210B Intermediate Spanish Conversation ..........3

UPPER DIVISION REQUIRED COURSES (15 UNITS)
   A. Language (6 Units)
   SPAN 306 Advanced Composition ............................3
   SPAN 401 Language and Culture ............................3
   B. Literature (6 Units)
   Choose one from the following:
   SPAN 315A The Literature of Spain I ....................3
   SPAN 315B The Literature of Spain II ....................3
   Choose one from the following:
   SPAN 363 The Literature of Latin America I ............3
   SPAN 364 The Literature of Latin America II ..........3
   C. Linguistics (3 Units)
   Choose one from the following:
   SPAN 395 Spanish Phonetics ...............................3
   SPAN 400 Structure of the Spanish Language ..............3

TOTAL UNITS IN THE GENERAL MINOR (24 UNITS)

2. MINOR IN SPANISH FOR BUSINESS MAJORS

LOWER DIVISION REQUIRED COURSES (9 UNITS)
   SPAN 220A Intermediate Spanish I ........................3
   SPAN 220B Intermediate Spanish II ........................3
   Choose one from the following:
   SPAN 210A/L Communicating in Spanish ................3
   SPAN 210B Intermediate Spanish Conversation ..........3

UPPER DIVISION REQUIRED COURSES (15 UNITS)
   A. Language and Culture (9 Units)
   SPAN 300 Advanced Conversational Spanish
      (for non-natives only) .................................3
   SPAN 306 Advanced Composition ............................3
   SPAN 310 Language and Contemporary Hispanic Life ....3
   B. Spanish for Business (6 Units)
   SPAN 312 Readings in Spanish for Business ..............3
   SPAN 313 Beginning Commercial Correspondence ..........3
   Students in Minor Option 2 (Spanish for Business Majors) -
   should use Spanish 211 in lieu of Spanish 220B when offered.
   Students with advanced placement, or native speakers who
   are not permitted to take Spanish 300, must include an
   additional upper-division course chosen with the approval
   of an advisor.

TOTAL UNITS IN THE BUSINESS MAJOR (24 UNITS)

3. MINOR IN SPANISH FOR THE HEALTH SCIENCES

LOWER DIVISION REQUIRED COURSES (9 UNITS)
   SPAN 220A Intermediate Spanish I ........................3
   SPAN 220B Intermediate Spanish II ........................3
   Choose one from the following:
   SPAN 210A/L Communicating in Spanish ................3
   SPAN 210B Intermediate Spanish Conversation ..........3

UPPER DIVISION REQUIRED COURSES (15 UNITS)
   A. Language (9 Units)
   SPAN 300 Advanced Conversational Spanish
      (for non-natives only) .................................3
   SPAN 303 Practical Spanish for Health Professionals ..3
   SPAN 306 Advanced Composition ............................3
   B. Culture (3 Units)
   SPAN 310 Language and Contemporary Hispanic Life ....3
   C. Medical Practicum (3 Units)
   SPAN 391 Medical Practicum: Interpreting for the Spanish Speaking ............................3

TOTAL UNITS IN THE GENERAL MINOR (24 UNITS)

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

REQUIREMENTS FOR ADMISSION TO THE PROGRAM

Department evaluation and approval by a graduate advisor are required before a student can be admitted to either classified or unclassified graduate standing. Please see additional information regarding classified status in the Graduate Section.

Admission requirements for classified graduate status in the Spanish program are the same as the general University requirements for classified status.

SPECIAL REQUIREMENTS

Second foreign language. Candidates are expected to have reading competence in a second foreign language other than English. The second foreign language is to be selected with the approval of the graduate advisor. See Foreign Language Reading Examination.

Successful Completion of a comprehensive examination. See Spanish 697.

REQUIRED COURSES (18 UNITS)

Choose a total of six courses (at least one in each field):
   A. Language
   SPAN 600 History of the Spanish Language ...............3
   SPAN 603 Seminar in Romance Linguistics .................3
   SPAN 605 Advanced Translation ............................3
   B. Literature
   SPAN 606 Seminar in a Genre ................................3
   SPAN 607 Seminar in a Literary Period .....................3
   SPAN 608 Seminar in Selected Authors ....................3
   SPAN 609 Seminar in Style ..................................3
   SPAN 620 Spanish Literary Criticism ........................3
   C. Civilization
   SPAN 680 Topics in Latin-American Culture ...............3
   SPAN 681 Topics in Spanish Culture ........................3

ELECTIVES (12 UNITS)

Select at least two courses from each group:
   A. Language
SPAN 400 Structure of the Spanish Lang ..................3
SPAN 505 Art of Translation .....................................3
SPAN 506 Advanced Written Expression ..................3

B. Literature
Any 400-1 or 500-level literature courses not used to
satisfy B.A. requirements, or any 600-level literature
courses listed in the Core, but not used to satisfy Core
requirements.

TOTAL UNITS REQUIRED FOR THE DEGREE: 30

COURSE LIST
LOWER DIVISION

101, 101C. ELEMENTARY SPANISH I (4)
A study of the fundamentals of Spanish: grammatical
structures, reading, practice in the spoken language. 101C, a
one-unit conversational module emphasizing the
development of oral skills, is an integral part of the course
and must be taken concurrently with 101. Not open to
students with oral proficiency or who have attended schools
where Spanish was the language of instruction. May not be
challenged. Credit will not be given for both 101/101C and
103. (Available for General Education, Comparative Cultural
Studies.)

101D. ELEMENTARY SPANISH FOR STUDENTS WITH HEARING
IMPAIRMENT I (4)
Open only to those students who are unable to take Spanish
101/101C or 103 because of inability to hear. The focus of this
beginning language class is on reading, translating, and
creative expression in writing. A basic knowledge of English
is presumed, but grammatical terminology will be reviewed
in depth, as required for contrasting English and Spanish
usage. This course will be taught in sign-assisted spoken
English (Total Communication). May not be challenged.
(Available for General Education, Comparative Cultural
Studies.)

102, 102C. ELEMENTARY SPANISH II (4)
Prerequisite: Completion of Spanish 101/101C or permission
of instructor. Continuation of the study of the fundamentals
of Spanish grammatical structures, reading, practice in the
spoken language. 102C, a one-unit conversational module emphasizing the
development of oral skills, is an integral part of the course and must be taken concurrently with 102. Not open to students who have attended schools where Spanish was the language of instruction. May not be challenged. Credit will not be given for both 102/102C and 104. (Available for General Education, Comparative Cultural Studies.)

102D. ELEMENTARY SPANISH FOR STUDENTS WITH HEARING
IMPAIRMENT II (4)
Prerequisite: Spanish 101D or equivalent and by interview
with instructor. Continuation of Spanish 101D. Open only to
those students who are unable to take Spanish 102/102C or
104 because of inability to hear. The focus of this class is on
reading, translating, and creative expression in writing. A
basic knowledge of English is presumed. This course will be
taught in sign-assisted spoken English (Total
Communication). May not be challenged. (Available for
General Education, Comparative Cultural Studies.)

103. ELEMENTARY WRITTEN SPANISH I (3)
Open only to those students with oral fluency in Spanish.
This class will emphasize the development of reading and
writing skills and will include the study of specific areas of
grammar. Reading selections will emphasize Hispanic
culture. Taught in Spanish. Credit will not be given for both
101/101C and 103. Entrance by permission of instructor, subject to verification of oral skills at the beginning of the semester. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

104. ELEMENTARY WRITTEN SPANISH II (3)
Prerequisite: Completion of Spanish 103 or equivalent, or
permission of instructor. Continuation of Spanish 103 with
reading and writing at a more advanced level. Reading
selections will emphasize Hispanic culture. Taught in
Spanish. Credit will not be given for both 102/102C and
104. (Available for General Education, Comparative Cultural Studies.)

210A/210AL. COMMUNICATING IN SPANISH (3)
Prerequisite: Completion of Spanish 102 or 104 or placement
test. Situational Spanish for intercultural communication.
The development of listening and speaking skills in the
context of world-wide Hispanic cultures. Reading and
writing activities in addition to lab requirement.
Recommended for students wanting to strengthen Spanish
skills before entering other 200-level courses, or for those
primarily interested in developing practical communicative
ability. Not open to students who have attended schools
where Spanish was the language of instruction. May not be
challenged. (Available for General Education, Comparative Cultural Studies.)

210B. INTERMEDIATE SPANISH CONVERSATION (3)
Prerequisite: Completion of Spanish 102 or 104 or equivalent. Can be taken concurrently with Spanish 220A/B.
A course intended to develop the students' oral-aural skills and to improve their fluency in spoken Spanish. Not open to students who have attended schools where Spanish was the language of instruction. May not be challenged. (Available for General Education, Comparative Cultural Studies.)

211. INTERMEDIATE READING IN BUSINESS SPANISH (3)
Prerequisite: Completion of Spanish 220A or equivalent. A
course in intermediate Spanish reading, focusing on aspects
of business. Does not count toward the major or minor
(option I or III) in Spanish.

220A. INTERMEDIATE SPANISH I (3)
Prerequisite: Completion of Spanish 102 or 104 or equivalent. May be taken concurrently with Spanish 210B.
A course designed to improve listening and speaking skills, although reading and writing skills will be strengthened as necessary. Review of basic grammar and introduction of more advanced grammatical structures and syntax. Vocabulary expansion. May not be challenged if principal schooling has been in Spanish. (Available for General Education, Comparative Cultural Studies.)

220B. INTERMEDIATE SPANISH II (3)
Prerequisite: Completion of Spanish 220A or equivalent. May be taken concurrently with Spanish 210B.
A course designed to improve reading and writing skills in Spanish and to use these skills in the context of an introductory study of Hispanic literature. Critical theory will be introduced as an essential to analysis. Application of grammar skills to composition will be reviewed. The class will be conducted in Spanish. May not be challenged if principal schooling has been in Spanish. (Available for General Education, Comparative Cultural Studies.)
UPPER DIVISION

300. ADVANCED CONVERSATIONAL SPANISH (3)
Prerequisite: Completion of Spanish 220A or equivalent. May be taken concurrently with Spanish 220B. A course intended to encourage majors and minors in Spanish engaged in the Junior Year Program to further develop their ability to express themselves in the Spanish language. Strongly recommended for prospective teachers of Spanish. Not open to students who have attended schools where Spanish was the language of instruction. May not be challenged.

304. ADVANCED GRAMMAR & COMPOSITION (3)
Prerequisite: Upper division standing in Spanish. A one-semester course consisting of the study of difficult problems of syntax peculiar to the Spanish language, with composition exercises designed to develop the student’s command of the written language.

306. ADVANCED COMPOSITION (3)
Prerequisite: Completion of Spanish 304 or upper division standing in Spanish. A course devoted to the analysis and evaluation of types of Spanish style and to the practical application of these type patterns in writing.

307. INTRODUCTION TO THE ANALYSIS OF HISPANIC LITERATURE (3)
Prerequisites: Completion of Spanish 220B (or equivalent). Reading, discussion, and practical analysis of selected works of Hispanic literature to acquire the basic knowledge of the genres, archetypes, and movements which are unique to it. Students will be introduced to the analytical tools (terminology, critical approaches, research methodology, and term paper format) necessary to the study of the above. Conducted in Spanish.

310. LANGUAGE & CONTEMPORARY HISPANIC LIFE (3)
Prerequisite: Upper division standing in Spanish. A course in advanced conversation focused on aspects of contemporary culture.

312. READINGS IN SPANISH FOR BUSINESS (3)
Prerequisite: Completion of Spanish 306. Readings and discussion of texts dealing with various aspects of business, designed to introduce the students to the basic vocabulary and structures of commercial Spanish.

313. BEGINNING COMMERCIAL CORRESPONDENCE (3)
(Formerly 307)
Prerequisite: Spanish 306, 312. This course will introduce students to the basic principles of business correspondence in Spanish.

315A. LITERATURE OF SPAIN I (3)
Prerequisite: Completion of Span. 306 and 307. A course designed to introduce the students to the highlights of Spanish literature from its origins to the Golden Age period, including Cervantes.

315B. LITERATURE OF SPAIN II (3)
Prerequisite: Completion of Span. 306 and 307. A course designed to introduce the students to the highlights of Spanish literature from the Golden Age period to the modern period.

320A. CULTURE & CIVILIZATION IN CONTEMPORARY HISPANIC SOCIETY (3)
Prerequisite: Spanish 220B or equivalent. For the Liberal Studies Program concentration. Not open to majors or minors. This is a course designed to develop the formal writing skills needed in the preparation of essays and research papers. Readings upon which the writing exercises will be based will discuss Hispanic (European as well as Latin American) culture and civilization from the mid-nineteenth century to the present. Conducted in Spanish.

320B. LITERATURE & CULTURE IN CONTEMPORARY HISPANIC SOCIETY (3)
Prerequisite: Spanish 320A. For the Liberal Studies Program concentration. Not open to majors or minors. Reading and discussion of selected literary works with emphasis on their place in the development of Spanish and Spanish-American literature and their relationship to social and historical movements, the history of ideas and the development of the arts from the mid-nineteenth century to the present. Conducted in Spanish.

363. LITERATURE OF LATIN AMERICA I (3)

364. LITERATURE OF LATIN AMERICA II (3)
Prerequisite: Spanish 306, 307. A two-semester course dealing with representative authors of Central and South America; study of the cultural and social backgrounds of their work; analysis of literary genres, such as native Indian elements and gauchesco literature.

380. LATIN AMERICAN CIVILIZATION (3)
Prerequisite: Upper division standing in Spanish. Evolution of Latin American civilization, with special reference to social, cultural, and artistic elements.

381. SPANISH CIVILIZATION (3)
Prerequisite: Upper division standing in Spanish. A study of Spanish customs and institutions in the light of their historical development.

382. LITERATURE & SOCIETY IN LATIN AMERICA (3)
Prerequisite: Upper division standing in Spanish. Reading and discussion of selected works of fiction and non-fiction with emphasis on their place in the development of Latin American literature and their relationship to social and historical movements, the history of ideas and the development of the arts. Given in Spanish.

383. LITERATURE AND SOCIETY IN SPAIN (3)
Prerequisite: Upper division standing in Spanish. Reading and discussion of selected works of fiction and non-fiction with emphasis on their relationships to social and historical movements, the history of ideas and the development of the arts in Spain. Given in Spanish.

391. PRACTICUM IN SPANISH: WORKING IN THE HISPANIC COMMUNITY (3)
Prerequisite: Spanish 300 or consent of instructor. A course designed to provide training and practical field experience in interpreting for the Spanish speaking in areas such as medicine, legal aid, education, etc. Emphasis will be placed on the development of appropriate professional vocabulary as well as speaking and comprehension skills. May be repeated once. CR/NC only.

392. FIELD EXPERIENCE IN SPANISH (2)
Prerequisite: Working knowledge of Spanish (Native speaker or completion of Spanish 220B). This course is designed as a practicum for teaching in the bilingual or LSEP classroom. Enrollment is limited to Liberal Studies majors. Class work conducted in Spanish.

395. SPANISH PHONETICS (3)
Prerequisite: Upper division standing in Spanish. The primary aim of this course is to improve pronunciation and to consolidate and supplement basic theoretical knowledge.
about sounds, sound relationships, and sentence inflection.

400. STRUCTURE OF THE SPANISH LANGUAGE (3)
Prerequisite: Upper division standing in Spanish. Scientific analysis of the structure of Spanish; comparison with traditional descriptions; review of problems of usage in writing and speaking Spanish.

401. LANGUAGE AND CULTURE (3)
Prerequisite: Upper division standing in Spanish. A linguistic study of the Spanish language in a social and cultural context. Topics covered may include the study of cultural influences on the development of the language and its varieties, languages in contact with other languages, bilingualism, and socio-cultural factors in language use.

496A-Z. EXPERIMENTAL COURSES IN SPANISH LITERATURE (3)
Prerequisites: Spanish 306, 307. Selected topics in Spanish literature or linguistics with course content to be determined.

497. COMPARATIVE STRUCTURE OF SPANISH & ENGLISH (3)
Prerequisite: Completion of Spanish 395. Recommended for native speakers. A comparative study of the Spanish and English linguistic structures at the phonemic, morphemic, syntactic, and semantic levels as they interact in the bilingual learning process.

499. INDEPENDENT STUDY (1-3)

GRADUATE

For ways of meeting the foreign language graduate reading requirement see Foreign Language Reading Examination. All graduate level classes are conducted in Spanish.

505. THE ART OF TRANSLATION (3)
Prerequisite: Spanish 306 or consent of the instructor. A study of the morphemic, syntactic, and semantic problems of translating Spanish into English and vice versa, complemented by practical work in both areas.

506. ADVANCED WRITTEN EXPRESSION (3)
Prerequisite: Spanish 306 or consent of the instructor. A course in advanced expository writing designed to take the student beyond the basic skills of clarity and organization to improved language mastery and use of stylistic modes. Conducted in Spanish.

508. LITERATURE OF THE MIDDLE AGES (3)
Prerequisites: Spanish 306, 307. A study of the literary and intellectual developments in Spain during the Middle Ages.

509. LITERATURE OF THE RENAISSANCE (3)

512. GOLDEN AGE PROSE (3)
Prerequisites: Spanish 306, 307. A study of the major trends in the prose literature of the Golden Age; Cervantes and the novel, mystic prose, the essay, and historiography.

513. GOLDEN AGE POETRY (3)

518. SPANISH NEOCLASSICISM AND ROMANTICISM (3)
Prerequisites: Spanish 306, 307. A study of the aesthetic, social, and philosophical ideas in the writings of major Spanish Neoclassic and Romantic figures.

519. SPANISH REALISM AND NATURALISM (3)

520. LATIN AMERICAN CINEMA AND LITERATURES (3)
Prerequisites: Spanish 306, 307. This course will study the relationship between film and literature in Latin America, focusing on cinematic adaptations of literary works. Films will be viewed by the students outside of the classroom. Class time will be almost entirely devoted to discussion of readings and films. Given in Spanish.

550. THE LATIN AMERICAN NOVEL (3)
Prerequisites: Spanish 306, 307. Development of the Latin American novel from the colonial period to the present day. Emphasis on the “Nueva Novela” (Fuentes, García Márquez, Rulfo, Roa Bastos, Sabato, Vargas Llosa, etc.) Given in Spanish.

560. LATIN AMERICAN WOMEN WRITERS (3)
Prerequisites: Spanish 306, 307. A topical study of selected works of Latin American women writers, exploring women’s literary traditions and their relationships to mainstream literary movements. Application of recent trends in literary theories and critical methodologies will be emphasized. Conducted in Spanish.

561. SPANISH WOMEN WRITERS (3)
Prerequisites: SPAN 306, 307. A topical study of selected works of Spanish women writers, exploring women’s literary traditions and their relationship to mainstream literary movements. Application of recent trends in literary theories and critical methodologies will be emphasized. Conducted in Spanish.

580. SPANISH LITERATURE FROM 1898 TO 1936 (3)
Prerequisites: Spanish 306, 307. A study of social, philosophical, and aesthetic issues as reflected in Spanish literature from 1898 to 1936.

581. SPANISH LITERATURE SINCE 1936 (3)
Prerequisites: Spanish 306, 307. A study of the major works of Spanish literature from 1936 to the present, including those of writers exiled during the Spanish Civil War (1936-39). All works will be studied within the framework of life in Spain during and after the Civil War and in relation to the Spanish literary tradition.

584. THE NOVEL OF THE MEXICAN REVOLUTION (3)
Prerequisites: Spanish 306, 307. A study of selected novels which describe the revolutionary struggle during the years 1910-1915 and the profound changes which the revolution produced in Mexican society. Also emphasized will be the novelists’ disillusion with many of the revolutionary governments. (Same as Chicano Studies 584.)

587. THE CONTEMPORARY MEXICAN NOVEL (3)
Prerequisites: Spanish 306, 307. A study of the recent trends in the Mexican Novel through the reading of selected works by the best-known contemporary Mexican novelists. (Same as Chicano Studies 487.)

600. HISTORY OF THE SPANISH LANGUAGE (3) (Formerly 500)
The development of Spanish from Latin to the present.

603. SEMINAR IN ROMANCE LINGUISTICS (3) (Formerly 503)
Major linguistic problems with specific reference to Spanish.
605. ADVANCED TRANSLATION (3) (Formerly 505)
Prerequisite: Completion of Spanish 405 or consent of instructor. Further study of translation as it goes beyond the functional conveyance of meaning to the more complex tasks of transferring stylistic features of genre patterns. Analysis of texts already translated into English or Spanish and practice according to the students' area of interest.

606. SEMINAR IN A GENRE (3) (Formerly 506)
Topics will vary from semester to semester.

607. SEMINAR IN A LITERARY PERIOD (3) (Formerly 507)
The period studied will vary from semester to semester.

608. SEMINAR IN SELECTED AUTHORS (3) (Formerly 508)
Authors studied will vary from semester to semester.

609. SEMINAR IN STYLE (3) (Formerly 509)
A review of principal stylistic theories and their application to Spanish.

620. SPANISH LITERARY CRITICISM (3) (Formerly 520)
The historical development of Spanish literary criticism; analysis of representative critics.

680. TOPICS IN LATIN AMERICAN CULTURE (3) (Formerly 580)
Prerequisite: Completion of Spanish 380 or the equivalent, or consent of the instructor. A detailed analysis of the complex interplay of political, artistic and intellectual forces at work at any given moment in history. The period or area treated will vary from semester to semester.

681. TOPICS IN SPANISH CULTURE (3) (Formerly 581)
Prerequisite: Completion of Spanish 381 or the equivalent, or consent of the instructor. A detailed analysis of the complex interplay of political, artistic and intellectual forces at work at any given moment in history. The period treated will vary from semester to semester.

697. DIRECTED COMPREHENSIVE STUDIES (3) (Formerly 597)
Required for comprehensive examinations. To be taken in final semester.

699. INDEPENDENT STUDY (1-6) (Formerly 599)
MUSIC

Chair: Jerry D. Luedders

COLLEGE OF ARTS, MEDIA, AND COMMUNICATION
Department Office: Music 100
Phone: (818) 677-3181, (818) 677-3184

STAFF: Steve Martinez..................Director of Music Advisement
Pat Kuhn .....................Administrative Coordinator
Sandra Browne ..................Administrative Analyst/Specialist
Linda Gray ..................Administrative Support Coordinator
Mary Reale ..................Director of Public Relations
James Karukas ..................Piano Technician
Guy Fabre ..................Production Coordinator/Instrument Technician
Phil Calvert ..................Recording Technician

FACULTY: Full-Time: David Aks, Ric Alviso, Ronald Borczon, Charles Fierro, Matt Harris, Elmer Heerema, Julia Heinen, Dan Hosken, Jeanine Jacobson, Daniel Kessner, Mary Kim, Gerard Knieter, Joel Leach, Jerry Luedders, Deanna Murray, Gary Pratt, Ronald Purcell, Francoise Regnat, David Sannerud, Mary Schiff, Elizabeth Sellers, Paul Smith, Linda Stones, William Toutant, David Whitwell.
Part-Time (applied): John Acevedo, viola; Wayne Bergeron, jazz trumpet; William Bing, trumpet; Sandra Bostrom, piano; William Booth, trombone; Marie Casale, harp; Franklyn D’Antonio, violin; Karen Ervin, percussion; Judy Farmer, bassoon; Michael Ferril, violin; Grant Geissman, jazz guitar; Kimaree Gilad, oboe; Keith Greene, viola; David Hoover, horn; Alex Iles, jazz trombone; Clay Jenkins, jazz trombone; Don Kasper, jazz bass; Brian Kilgore, percussion; Sandra Kipp, flute; Larry Koonce, jazz guitar; Rob Lockart, trumpet; Jacqueline Salas, piano; David Scott, voice; Judith Scott, voice; David Shostac, flute; Douglas Tornquist, tuba/euphonium; Richard Weller, jazz drumset, John West, organ; Michelle West, jazz voice.


THE MAJOR: Research increasingly confirms and reveals the power and potential of music in human development. The study of music, requiring a variety of learning modalities, develops essential skills that carry over into the study of other fields. The performance components allows for deep cultivation of its expressive potential. The student also has an opportunity to develop maturity and poise in public settings, leading to growth in self-confidence and flexibility. In group music making the student becomes part of an artistic community, reaping the satisfaction of working with others toward common goals and the sense of accomplishment resulting from fine performance.

CAREERS: Music Department graduates are gainfully employed in diversified positions throughout the world; these include teachers in public and private schools and colleges, practicing music therapists, conductors of orchestras and bands, published composers and arrangers, award-winning recording artists, performers in renowned opera companies, and many involvements with the entertainment industry in Southern California and elsewhere.

DEGREES OFFERED: Bachelor of Arts, Bachelor of Music, Master of Arts, Master of Music.

ADMISSION TO THE MAJOR: All undergraduate options listed require an audition on the major performing instrument, plus placement testing in aural and keyboard musicianship. Graduate options require an audition or demonstration of competence in the area of specialty, plus entry examinations in Music History and Music Theory. Information regarding entry standards for specific instruments is available on request (B.A., B.M., M.M.).

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

LOWER DIVISION REQUIRED COURSES (26 UNITS)

MUS 101 Your Career in Music ........................................2
MUS 111/L, 112/L, 211/L Musicanship I,II,III (2-2-2) ...........6
MUS 110AB, 210A Keyboard Musicianship II,III (1-1-1) .........3
MUS 191/L Fundamentals of Music Technology ...............3
MUS 201 Style and Literature of Western Music I: Pre-Renaissance to 1800 ........................................3
MUS 202 Style and Literature of Western Music II: 1800 to Present ....................................................3
Individual Lessons (1-1) ..................................................2
Ensembles .................................................................4

UPPER DIVISION REQUIRED COURSES (4 UNITS)

MUS 307 Music from a Global Perspective .......................3
MUS 495 Senior Recital Project ......................................3

OPTION REQUIREMENTS

BREADTH STUDIES IN MUSIC (35 UNITS)

MUS 212/L Musicanship IV ...........................................2
MUS 210B Keyboard Musicianship IV ................................1
MUS 213, 214 Harmony I and II (3-3) .............................6
Individual Lessons (1-1) ..................................................2
Ensembles ..................................................................4
Upper division music courses, to be selected .................20
(in consultation with the Advisement Coordinator in Music)
from the following categories and directed toward a specific Capstone:

Literature (2 courses required): 401 Opera Lit.; 403 Vocal Lit.; 404 Symphonic Lit., 405 Wind Lit.; 407 Keyboard Lit.; 409 Chamber Lit.; 411 Performance Practices; 412 Choral Lit.; 302 Jazz History.

Theory/Composition: 314 Tonal Counterpoint; 315AB Orchestration; 316 Analysis; 320 20th C. Composition; 321 Beginning Composition.

Conducting: 363/L Choral Conducting/Arranging; 364/L Instrumental Conducting/Arranging.


Individual Lessons: Maximum of two units (in addition to the required 4), to be requested by the student in writing at the time of the 4th semester jury. If approved, this choice leads to a Capstone #3 below. Ensemble is co-requisite.

Ensembles: Maximum of 4 units toward the 20-unit elective total. 4 required for students receiving two additional units of lessons.

Other: Up to six units in one or more disciplines outside music. Alternate course selections if approved through advisement.
Capstone (Credit/No Credit / MUS 495 in Core). One of the following (detailed requirements available from Coordinator of Advisement):
1. Undergraduate Thesis
2. Lecture/demonstration
3. Lecture/recital
   (Completes the Individual Lesson track - see above)
4. Custom-designed project, developed with advisor.

**MUSIC INDUSTRY (39-40 UNITS)**

For students preparing for a career in the various business-related aspects of the field (entrance audition required).

Capstone experience: Internship.

- MUS 213: Harmony I ...........................................3
- MUS 210B: Keyboard Musicianship IV ..................1
- MUS 293: Early Field Experience in Music Industry 2
- MUS 302: Jazz History ........................................2
- MUS 303: History of Rock and Pop Music ............2
- MUS 391: MIDI-sequencing Technology .............3
- MUS 393: Music Industry Studies .......................3
- MUS 397ABCD: Recording .................................2
- MUS 493: Music Production ..................................3
- Individual Lessons .............................................2

(Ensembles will apply to instrument used for audition. End-of-semester performance juries are required, but no recital.)

- MUS 494: Internship ..........................................6

Courses outside music:

- BLAW 280: Business Law .................................3

Select one:

- MIS 225/225L: Computer Concepts and Applications in Business ..........................4
- MGT 360: Management and Organizational Behavior .............................................3

**MUSIC EDUCATION (42 UNITS)**

For students preparing for teaching careers in public schools (entrance audition required). Capstone experience: Half-hour recital. To earn a California Single-Subject Credential in Music, students must also complete the Credential requirements in the Department of Secondary Education. For information, see the Credential section of this catalog.

- MUS 210B: Keyboard Musicianship IV ..................1
- MUS 212/L: Musicianship IV .................................2
- MUS 213,214: Harmony I, II (3-3) .........................6

Individual Lessons (must all be on one instrument, including the 2 units in core requirement. B.A. recital required.) ...............................4

Ensembles ................................................................8

**SUBJECT MATTER PROGRAM (21 UNITS)**

- MUS 233: Keyboard Applications for Music Education .............................................1
- MUS 334: String Instrument Class ......................1
- MUS 335: Woodwind Instrument Class ...............1
- MUS 336: Brass Instrument Class .......................1
- MUS 337: Percussion Instrument Class .................1
- MUS 363/L: Choral Conducting and Arranging ....3
- MUS 364/L: Instrumental Conducting and Arranging...3
- MUS 366: Foundations and Field Observation in Music Education ..........................2

Choose one according to emphasis: .............................................4

- MUS 473/L: Choral Methods and Practicum ............4
- MUS 474/L: Instrumental Methods and Practicum .....4

Choose from the following: ..................................................4

(Choral Emphasis must include General Music Practicum and Alternative Vocal Applications; Instrumental Emphasis must include Vocal Techniques and Alternative Instrumental Applications; General Music Emphasis must include General Music Practicum and World Music Applications)

- MUS 133A: Beginning Guitar ................................1
- MUS 315A: Orchestration I .................................2
- MUS 317A: Jazz Arranging .................................2
- MUS 367: World Music in Education .................1
- MUS 369: Field Band Techniques .......................1
- MUS 338A: Vocal Techniques .............................1
- MUS 479: General Music Practicum ....................1
- MUS 480: Alternative Vocal Applications .............1
- MUS 481: Alternative Instrumental Applications .....1

Music Education majors will take Physics 305: Physics of Music, as a requirement for GE Section B-1.

SecEd525Mu General Music, a course in the Credential program, is to be taken along with the Subject Matter program courses.

To be cleared for student teaching, a Music Education Student must have:
1) completed B.A. requirements and graduated;
2) a 3.0 overall grade point average;
3) no grade lower than B- in any of the Subject Matter Program courses;
4) successfully completed the Music Education Assessment (information available in Music Department office).

**OPTION: MUSIC THERAPY (46 UNITS)**

For students preparing for careers in the therapeutic applications of music (entrance audition required). Capstone experience: Internship. Completion of the program qualifies students to apply for registration with the National Association for Music Therapy, and to take the national examinations needed to become a board certified Music Therapist.

- MUS 210B: Keyboard Musicianship IV ..................1
- MUS 212/L: Musicianship IV ...............................2
- MUS 213.214: Harmony I, II (3-3) .......................6
- MUS 315A: Orchestration I ...............................2
- MUS 360/L: Functional Music Skills for Therapy ...3

Individual Lessons (must all be on one instrument, including the 2 units in core requirement) .................................2

- Ensembles ................................................................4

Electives (to be chosen through advisement) .............................................5

**REQUIRED THERAPY COURSES (21 UNITS)**

- MUS 292: Orientation ..........................................2
- MUS 392/L: Music in Therapy .........................4
- MUS 477: Practicum (1-1-1-1) ..........................4
- MUS 491: Psychology of Music ............................3
- MUS 492: Influences of Music on Behavior ..........4
- MUS 494: Internship (494A+C) ............................4

**GENERAL EDUCATION OVERLAP:**

For Music Studies, Music Education, and Music Therapy:

- MUS 307: fulfills 3 units of Section F.2
- MUS 191/L: Music in Therapy ............................4
- MUS 477: Practicum (1-1-1-1) ..........................4
- MUS 491: Psychology of Music ............................3
- MUS 492: Influences of Music on Behavior ..........4
- MUS 494: Internship (494A+C) ............................4

For Music Industry:

- MUS 307: fulfills 3 units of Section F.2

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1 The National Association for Music Therapy requires that the following courses be part of the degree program:

- BIOL 211: Human Anatomy ....................................3
- PSY 310: Behavior Disorders ..................................3
- SFSPED 400: Introduction to Special Education ........3

Students in the Music Therapy option are allowed to take these courses for General Education credit in the following sections: Biology 211 for B-I (prerequisite Biology 101 also available for GE), Psychology 310 for D, and Spec. Education. 400 for E (credential prerequisite waived).
MAJOR TOTALS
Music Studies 65 (54*)
Music Industry 69-70 (66-67*)
Music Education 72 (63*)
Music Therapy 76 (67*)
* includes GE overlap

TITLE 5 (6 UNITS)
TOTAL UNITS REQUIRED FOR DEGREE: 124

REQUIREMENTS FOR THE BACHELOR OF MUSIC DEGREE
LOWER DIVISION REQUIRED COURSES (39 UNITS)
(Note: The following Music courses listed here double count for General Education requirements in all Options.)
MUS 191/L Section E
MUS 202 Section C-2
MUS 307 Section F-2
(Capstone experience for all options: one-hour recital)
MUS 101 Your Career in Music ............................................2
MUS 112/L, 211/L, 212/L, 311/L, 312/L, 412/L, 413/L Musicianship II, III, IV, V, VI (2-2-2-2-2-2) 10
MUS 110AB Keyboard musicianship and 210AB Keyboard musicianship I, II, III, IV (1-1-1-1) 4
MUS 191/L Fundamentals of Music Technology 3
MUS 201 Style/Literature of Western Music: I Pre-Renaissance to 1800 3
MUS 202 Style/Literature of Western Music: II 1800 to Present 3
MUS 213/214 Harmony I, II (3-3) 6
Individual Lessons ...................................................................12
Ensembles ................................................................................4
UPPER DIVISION REQUIRED COURSES (7 UNITS)
MUS 307 Music from a Global Perspective 3
MUS 316 Musical Analysis ......................................................3
Recital/Senior Project ................................................................1

OPTION REQUIREMENTS

STRINGS
1. Orchestral
Select 2 of the following: .........................................................4
MUS 404 Symphonic Literature ..............................................2
MUS 409 Chamber Literature .................................................2
MUS 411 Performance Practices .............................................2
MUS 464 String Pedagogy .......................................................2
MUS 487 Chamber Music (1,1,1) .............................................3
Individual Lessons .................................................................12
Ensembles ..............................................................................12
2. Classical Guitar
MUS 130 Fretboard Sightreading ...........................................1
MUS 406AB Fretboard Literature ...........................................2
MUS 433/L Master Class .........................................................2
MUS 287/487 Chamber Music (1,1,1) (4) 4
MUS 462/L Guitar Pedagogy I ...............................................2
MUS 496G/L Guitar Pedagogy II ............................................2
Individual Lessons .................................................................12
Ensembles (4 units met by 287/487) ........................................12

WINDS
Select one of the following: .......................................................2
MUS 404 Symphonic Literature ..............................................2
MUS 411 Performance Practices .............................................2
MUS 435/L Master Class: Winds ............................................2
MUS 287/487 Chamber Music (1,1,1) 4
MUS 465 Wind Pedagogy .........................................................2
Individual Lessons .................................................................12
Ensembles ..............................................................................12

PERCUSSION
MUS 187/387 Percussion Ensemble (1,1,1,1) 4
MUS 410 Percussion History/Literature .................................2
MUS 437/L Master Class: Percussion .................................2
MUS 467 Percussion Pedagogy ...............................................2
Individual Lessons .................................................................12
Ensembles ..............................................................................12

KEYBOARD
Substitutions for 110AB, 210AB, and 2 units of ensemble in Core Requirements:
MUS 132A Keyboard Sightreading ....................................1
MUS 132B Functional Keyboard Skills ..............................1
MUS 232A Accompanying Skills .......................................1
MUS 232B Alternative Keyboards .....................................1
MUS 276/476 Accompanying Practica .............................2
1. Piano: a) Performance, and b) Pedagogy*
Individual Lessons .................................................................12
Ensembles ..............................................................................12
Select 9 additional units from the following, in consultation with advisor: .................................................................9
MUS 314 Tonal Counterpoint .............................................3
MUS 407 Keyboard Literature ..............................................2
MUS 432/L Master Class: Piano ..........................................2
MUS 461A/L Beginning Piano Pedagogy ...................................2
MUS 461B/L Intermediate Piano Pedagogy ...........................2
MUS 461C/L Piano Pedagogy Resources and Materials .........................................................2
MUS 478 Piano Pedagogy Practicum ..............................2
(*Note: Students in Piano Pedagogy emphasis are required to take Psychology 150 (a prerequisite of FES 330) as part of their General Education requirements [Section D].)
2. Organ:
Individual Lessons .................................................................12
Ensembles ..............................................................................12
Select 9 units from the following: .........................................9
MUS 314 Tonal Counterpoint .............................................3
MUS 407 Keyboard Literature ..............................................2
MUS 438 Master Class: Church Music ................................2
MUS 430/L Choral Conducting/Arranging ........................3
MUS 412 Choral Literature ....................................................2

VOCAL ARTS
MUS 339ABC Diction for Singers (1-1-1) A: IP/English; B: Italian/German; C: French 3
Select 1 of the following: .........................................................2
MUS 403 Vocal Literature .....................................................2
MUS 412 Choral Literature .....................................................2
MUS 468 Pedagogy of Singing .............................................2
Individual Lessons .................................................................12
Ensembles ..............................................................................12
Select 2 units from the following: .........................................2
MUS 378AB Performance Techniques/Opera Workshop 1-1
MUS 363L Choral Conducting & Arranging .......................3
MUS 291 Alexander Technique ..........................................1
MUS 488 Opera Roles ............................................................2
Secondary Choral Ensembles .............................................1

COMPOSITION/THEORY/COMMERCIAL & MEDIA WRITING
MUS 315A Orchestration I ......................................................2
MUS 320 20th Century Composition ..................................2
MUS 321 Beginning Composition ....................................2
MUS 364/L Instrumental Conducting/Arranging ................3
1. Composition
MUS 314 Tonal Counterpoint .............................................3
Substitutions to Core Requirements

JAZZ STUDIES

AFTER completion of the Keyboard Musicianship sequence. Lessons (4 units—see Core) will be on keyboard, normally minimum grade of “B.” The student must also have an overall Writing emphasis after completion of MUS 221 with a minimum grade of “B.”

Students interested in Jazz Studies will initially audition for and meet the standards of the B.M. Performance degree. They will audition for entrance into the Jazz Studies program at the conclusion of the Sophomore year. Students may indicate their interest in the Jazz area from the outset, and elect appropriate supportive courses during the freshman and sophomore years.

For students accepted into Jazz Studies, the ‘classical’ half-hour recital takes place during, or in the semester immediately following, the fourth (last) semester of traditional lessons.

TOTAL UNITS IN MAJOR: 79
WITH GE OVERLAP: 70

GENERAL EDUCATION (43 UNITS)

MU 307 fulfills 3 units of Section F.2; MU 191/L fulfills 3 units of Section E; MU 202 fulfills 3 units of Section C.2.

TITLE 5 (6 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 132

SPECIAL REQUIREMENTS OF THE MUSIC MAJOR

1. Music majors are required to declare, with the approval of the department, a performance specialization (voice, piano or other principal instrument). They are expected to develop this ability and to appear regularly in performance.

2. All students enrolled in individual lessons must demonstrate their progress in the major performance medium before a faculty jury at the end of each semester of study. Students not making satisfactory progress will need to take additional study (not included in department-paid lessons) to achieve their required level in performance.

3. To qualify for individual lessons in any semester, students must be enrolled in a minimum of twelve units.

4. Repertoire standards have been established for each of the degree programs. Students in the B.A. options requiring an audition must enter the program at B.A. Level I and must attain the appropriate level for graduation. Students in B.M. options in performance must meet B.M. Level I standards as freshmen and attain B.M. Level VIII for graduation.

5. Students admitted on a probationary basis to the Bachelor of Music degree will receive one semester of department-paid B.M. lessons (2 units). If probationary status continues beyond one semester, students will receive department-paid B.A. lessons (1 unit).

6. As part of the graduation requirement, all music majors must fulfill an Ensemble Requirement. This may differ for each B.A. and B.M. Option. The specific requirements for each Option, and the ensembles that may be used to meet these requirements, are published in the Music Student Handbook which is available in the Music Department office.

7. Enrollment in the appropriate ensemble for the student’s Option is a co-requirement of enrollment in private lessons each semester of enrollment.

8. Students enrolled in music ensembles in the Fall semester normally are expected to re-enroll in the same ensemble for the Spring semester. The nature of these classes makes it essential that a constant personnel be maintained through the year.

9. A concert attendance requirement is attached to successful
completion of each Musicianship level (see Core Courses, B.A. and B.M., above).
10. A change from a B.M. Option to B.A. option B, after more than two semesters in the B.M., requires written approval from the Department Chair.
11. Academic Advisement: All majors are required to meet with the designated faculty in each Option during the last two weeks of each semester for academic advisement.

GRADUATE PROGRAMS
MASTER OF ARTS (30 UNITS)
The Master of Arts degree is offered in:
   A. Music Theory (portfolio review required)
   B. Music Education (portfolio review required)
Prerequisite: a bachelor’s degree, including preparation equivalent to the undergraduate music major. For entrance into the Music Education program, normally a student must have earned a Single Subject Credential in Music and have 2 years of teaching experience.
Theory candidates must have completed Musicianship VI or its equivalent and must demonstrate the equivalence of an undergraduate thesis in theory. M.A. candidates are required to pass an oral comprehensive examination in defense of the thesis.

MASTER OF MUSIC (30 UNITS)
The Master of Music is offered in:
   A. Performance (audition required)
   B. Conducting (Instrumental, Choral; audition required)
   C. Composition (portfolio review required)
Prerequisite: a bachelor’s degree, including preparation equivalent to the undergraduate music major. Performance majors are expected to demonstrate their progress in the area of specialization before a faculty jury at the end of each semester of enrollment in individual study. Composition candidates must have completed Musicianship VI or its equivalent, and demonstrate the equivalence of an undergraduate recital in Composition.
The first twelve units of study are considered probationary. To achieve Classified status in the graduate program, the following are required:
   1. Completion of University requirements for admission to Classified Graduate status.
   2. A satisfactory result on the Graduate Record Examination (required only if the student’s undergraduate grade point average is below 3.0).
   3. Satisfactory placement in departmental Graduate Entrance examinations in Theory and Analysis and in Music History and Literature, or completion of review courses. The exam must be taken prior to first enrollment so that students can register in any review courses needed. Students failing the exam may repeat them once or complete review course work with a grade of “C” or better. The examinations will be administered at designated times during the semester preceding entrance, and during registration week at the beginning of Fall and Spring terms. Graduates of California State University, Northridge who have completed History and Theory courses with a grade of B or better, and who apply for admission to the Graduate Program within two years of graduation, will not be required to take these examinations.
   4. Review of competency and progress in the area of concentration.

REQUIREMENTS FOR M.A. AND M.M. DEGREES
REQUIREDS COURSES (15 UNITS)

   MUS 601 Research and Bibliography in Music................3
   MUS 604 Seminar in Musical Analysis ..........................3
   MUS 698 Artistic Performance/Thesis ..........................3
Choose two classes from the following ........................6
   MUS 603A Seminar in Renaissance Music .......................3
   MUS 603B Seminar in Baroque Music ............................3
   MUS 603C Seminar in Classic Music .............................3
   MUS 604D Seminar in Romantic Music ...........................3
   MUS 605E Seminar in Contemporary Music .......................3

AREA OF CONCENTRATION (MINIMUM OF 15 UNITS)
Courses to be selected in consultation with the graduate adviser. See Graduate Handbook for specific requirements.

TOTAL UNITS REQUIRED FOR M.A. AND M.M. DEGREES: 30

UNDERGRADUATE COURSES IN MUSIC
LOWER DIVISION
101. YOUR CAREER IN MUSIC: COLLEGE AND BEYOND (2)
This course is intended to assist music majors in 1) planning for and achieving success in the major; and 2) making appropriate music-based career choices. Career exploration features guest speakers from various aspects of the profession.

105. UNDERSTANDING MUSIC (3)
A history of Western music traditions, examining musical style and structure, relationships with other art forms, and aspects of their roles in Western culture. Lecture, listening, discussion, outside concert attendance. (Available for General Education, Humanities, except for Music Majors.)

107. MUSIC TODAY (3)
A survey of music in our society, including selected material from rock, jazz, pop, folk and traditional, show, film, and art styles, as well as the impact of technology on today’s musical life. (Available for General Education, Humanities, except for Music Majors.)

110A8. KEYBOARD MUSICIANSHIP I AND II (1-1)
(Formerly PIANO CLASS 132A/132B)
I: Introduction of fundamental keyboard skills and piano playing: sight reading, transcription, literature, improvisation and analysis emphasizing five-finger techniques. II: expansion of content to include scales, keyboard harmony and harmonization, use of pedals, playing by ear, and transposition emphasizing octave playing. 2 hrs. lab per wk. Music majors only.

111/L. MUSICIANSHIP I (1/1)
Development of basic skills in music making, including ear training, sightsinging, conducting exercises, and fundamental terminology. 1 hr. lecture, 2 hrs. lab.

112/L. MUSICIANSHIP II (1/1)
Prerequisite: MU111/L. Development of basic skills in music making, including ear training, sightsinging, conducting exercises, melodic and rhythmic dictation, and fundamental terminology. 1 hr. lecture, 2 hrs. lab.

130. GUITAR SIGHTREADING (1-1)
Pre or Corequisite: MU111/L. Drills to train eyes, ears and
hands. Study of staff notation and musical symbols through ensemble performance of simple one-, two-, and three- part pieces. Development of a harmonic vocabulary through open position chords and their transposition.

131A-B. FIRST YEAR PIANO (1-1)
131A is structured for the student with no piano experience. 131B continues the development of keyboard skills and may be taken by students who already read music on the elementary level. For development of piano appreciation and skill. Not open to music majors. 2 hrs. lab per wk.

132A-B. FOR KEYBOARD MAJORS (SUBSTITUTES FOR 110A-B)
A—SIGHTREADING (1)
B—FUNCTIONAL KEYBOARD SKILLS (1)
A: Development of sightreading proficiency at the keyboard with a variety of repertoire and styles. Emphasis on developing familiarity with keyboard topography, understanding kinesthetic response, and fostering supportive habits. Material to include solo and ensemble repertoire from elementary through advanced levels, geared to the individual student. 2 hrs. lab per week.
B: Instruction in skills needed by keyboard majors, including score reading; improvisation, harmonization, and transposition. 2 hrs. lab per week.

133A-B. BEGINNING GUITAR (1-1)
Prerequisite for 133B: 133A. Beginning techniques and repertoire in classical guitar. Intended for non-majors. 2 hrs. lab per week.

134. STRINGED INSTRUMENTS (1)
Class instruction in violin, viola, cello, and string bass. A familiarization with the bowed string instruments and beginner's presentation methods. 2 hrs. lab per wk. Required for Music Education and Composition Options-others if space permits.

135. WOODWIND INSTRUMENTS (1)
Class instruction in woodwind instruments. Correct embouchure, tone production, and execution. Knowledge of basic playing techniques and fingerings on all woodwind instruments. 2 hrs. lab per wk. Required for Music Education and Composition Options-others if space permits.

136. BRASS INSTRUMENTS (1)
Class instruction in brass instruments. Correct embouchure, tone production, and execution. Knowledge of basic playing techniques and fingerings on all brass instruments. 2 hrs. lab per wk. Required for Music Education and Composition Options-others if space permits.

137. PERCUSSION INSTRUMENTS (1)
(Formerly PERC. INSTR./MATER. 285)
Class instruction in snare drum, bass drum, cymbals, timpani, mallet instruments, and accessories, with particular emphasis on teaching techniques and equipment selection. 2 hrs. lab per wk. Required for Music Education Option-others if space permits.

140A-159B. INDIVIDUAL LESSONS
"A" numbers are for B.A. students; "B" numbers for B.M. students. Concurrent enrollment in the appropriate major performance ensemble is required. To be taken with department-approved instructors only. Not open to non-majors.

140 Flute A: (1-1), B: (2-2)
141 Oboe A: (1-1), B: (2-2)
142 Bassoon A: (1-1), B: (2-2)
143 Clarinet A: (1-1), B: (2-2)
144 Saxophone A: (1-1), B: (2-2)
145 Trumpet A: (1-1), B: (2-2)
146 Horn A: (1-1), B: (2-2)
147 Trombone/Euphonium A: (1-1), B: (2-2)
148 Tuba A: (1-1), B: (2-2)
149 Percussion A: (1-1), B: (2-2)
150 Piano A: (1-1), B: (2-2)
151 Organ A: (1-1), B: (2-2)
152 Harpsichord A: (1-1), B: (2-2)
153 Harp A: (1-1), B: (2-2)
154 Voice A: (1-1), B: (2-2)
155 Violin A: (1-1), B: (2-2)
156 Viola A: (1-1), B: (2-2)
157 Violoncello A: (1-1), B: (2-2)
158 String Bass A: (1-1), B: (2-2)
159 Guitar A: (1-1), B: (2-2)

168. STEEL DRUM ENSEMBLE
Learning the playing techniques and performance practices of the steel drum ensemble through application to performance of repertoire appropriate for this group. Open to majors and non-majors. 2 hours weekly.

170. UNIVERSITY CHORUS (1-1-1-1)
For majors and non-majors. The study of musical styles and rehearsal techniques through the performance of choral literature. 3 hrs. weekly.

172. NORTHRIDGE SINGERS (2-2-2-2)
Prerequisite: audition. Designed for voice majors and students with advanced vocal experience. The study of musical styles and rehearsal techniques through the performance of choral literature. 4 hours weekly.

174. CHAMBER SINGERS (1-1-1-1)
Prerequisite: audition. For students with advanced vocal experience. The study of musical styles and rehearsal techniques through the performance of literature for chamber choir. 2 hours weekly.

177. WOMEN’S CHORALE (1-1-1-1)
The study of musical styles and rehearsal techniques through the performance of choral literature for women’s voices. 3 hours weekly.

179A. SYMPHONIC WIND ENSEMBLE (1-1-1-1)
Prerequisite: audition. The study and performance of musical literature written for winds, with stylistic and historical emphasis. 3 hours weekly.

179B. SYMPHONIC WIND ENSEMBLE (2-2-2-2)
Prerequisite: audition. The study and performance of musical literature written for winds, with stylistic and historical emphasis. 4 hours weekly. A minimum of 2 hours per week rehearsal outside of class is required.

181A. JAZZ ENSEMBLE (1-1-1-1)
Prerequisite: audition. Rehearsal and performance of repertoire appropriate for this group. 4 hours weekly.

181B. JAZZ ENSEMBLE (2-2-2-2)
Prerequisite: audition. Rehearsal and performance of repertoire written for large jazz ensemble. 4 hours weekly. A Minimum of 2 hours per week rehearsal outside of class is required.

182. SYMPHONIC ORCHESTRA (2-2-2-2)
Prerequisite: audition. The study of musical styles and rehearsal techniques as they relate to the performance of representative orchestral literature. 4 hours weekly.
183. MATADOR FIELD BAND (1-1)
The technical, stylistic, and aesthetic elements of field band; rehearsal and public performance. Open to all University students and community members. 4 hours weekly.

184. CHAMBER ORCHESTRA (1-1-1-1)
Prerequisite: audition. The study of musical styles and rehearsal techniques through preparation and performance of chamber orchestra repertoire. 2 hours weekly.

187. PERCUSSION ENSEMBLE (1-1-1-1)
Rehearsal and performance of standard percussion ensemble literature, including quartets, quintets, sextets, and large ensembles.

189. JAZZ COMBO (1-1-1-1)
Prerequisite: audition. Small jazz groups of three to seven players performing repertoire commonly associated with the jazz idiom. Emphasis on improvisational skills.

191/L. FUNDAMENTALS OF MUSIC TECHNOLOGY (2/1)
Pre or Corequisite: MU111/L or equivalent. Introduction to uses, concepts, techniques, and terminology of computing through music applications. Experience with current hardware and software for music notation, sequencing, synthesis, and music performance and practice. Consideration of ethical, aesthetic, economic, and social problems in technology applications.

201. STYLE/LITERATURE OF WESTERN MUSIC I (3)
Prerequisite: MU112/L. A survey of Western art music from pre-Renaissance to 1800, emphasizing styles and trends within each historical era.

202. STYLE/LITERATURE OF WESTERN MUSIC II (3)
Prerequisite: MU112/L. A survey of Western art music from 1800 to the present, plus 20th-century U.S. vernacular developments.

210A-B. KEYBOARD MUSICIANSHIP III AND IV (1-1)
Prerequisite to A: MU110B; to B: 210A. Third and fourth semester group piano instruction. Continued development of skills introduced in MU110B. Special emphasis on performance and interpretation of piano compositions in various styles. Basic skill development in choral and instrumental score reading, sightreading accompaniments, and developing improvisations in two and 3-part forms. Two hours lab per week.

210AB/J. KEYBOARD MUSICIANSHIP III AND IV-JAZZ (1,1)
Prerequisites: For 210A/J, 110B. For 210B/J, 210 A/J. Continuation of keyboard musicianship development using melodic, rhythmic, and harmonic materials characteristic of the jazz idiom. For Jazz Studies majors— others by permission only.

211/L. MUSICIANSHIP III (1/1)
Prerequisite: MU112/L. Development of basic skills in music making, including ear training; sightreading; melodic, rhythmic, and harmonic dictation; conducting exercises; and fundamental terminology. One hour lecture, 2 hours lab.

212/L. MUSICIANSHIP IV (1/1)
Prerequisite: MU211/L. Development of basic skills in music making, including ear training; sightreading; melodic, rhythmic, and harmonic dictation; conducting exercises; and fundamental terminology. One hour lecture, Two hours lab.

213. HARMONY I (3)
Prerequisite: MU112/L. Diatonic harmony, non-chord tones, and voice leading. Melodic invention, harmonization, simple accompaniments, and elements of form. Students normally should enroll concurrently in MU212/L.

214. HARMONY II (3)
Prerequisite: MU213. Chromatic harmony, modulation, keyboard and instrumental styles. Students normally should enroll concurrently in MU212/L.

214J. HARMONY II: JAZZ. (3)
Harmonic concepts as applied in the jazz/pop/rock idioms, including chord alterations, chord extensions, polychords, quartal chords, chord substitutions, modulations. For students in the Jazz Studies Option.

219A-B. JAZZ IMPROVISATION I AND II (1-1)
I—Prerequisite: MU112/L; co-requisites: MU211/L, MU213. Fundamentals of improvisation for vocalists and instrumentalists. Includes introduction to nomenclature, to basic chord progressions, and application of scale and chord devices. Two hours lab per week.

II—Prerequisite: MU219A; co-requisite: MU214J. Theory and performance of blues forms and jazz modes. Beginning exploration of various solo styles. 2 hours lab per week.

221. SONG WRITING (3)
Prerequisite: MU211/L, MUS213. Analysis of representative hit song literature for principles of structure and content. Development of application skills through assignments.

231A-B. SECOND YEAR PIANO (1-1)
Prerequisites: 131B or 2 years of piano. Continuation of skills learned in 131B; study and performance of piano music from the Baroque through contemporary periods, stressing ensemble playing and improvisation. Not open to music majors for credit. 2 hours lab per week.

232A,B. FOR KEYBOARD MAJORS (SUBSTITUTES FOR 210AB)
A—ACCOMPANYING (1)
B—ALTERNATIVE KEYBOARDs (1)
A: The development of skills for accompanying vocalists and instrumentalists. Two hours lab per week.
B: Prerequisite: MUS 191/L. Development of skills applicable to the digital piano, synthesizer, organ, and harpsichord. 2 hours lab per week.

233. KEYBOARD APPLICATIONS FOR MUSIC EDUCATION (1)
Development of keyboard skills applicable to classroom and rehearsal venues in public schools, including song harmonization, working from lead sheets and from instrumental and choral scores, and constructing accompaniments with MIDI technology. Simulation of on-site application procedures.

237A,B. FOR PERCUSSION MAJORS:
A—DRUMSET CLASS (1)
B—LATIN PERCUSSION (1)
A—Prerequisite: sophomore level in percussion study. Development of performance skills on drumset, including study of jazz, rock, and selected Latin styles. Sightreading instruction and the development of solo techniques.
B—Prerequisite: sophomore level in percussion study. Instruction on basic Latin rhythm instruments including bongos, congas, shakers and other accessory instruments. Special emphasis on rhythmic patterns characteristic of the various styles.

238A-B. ELEMENTS OF VOCAL TECHNIQUE (1-1)
Group work in the fundamental techniques of singing. Problems of tone production, breath control, diction, repertoire, and interpretation. Open to all students. 2 hours lab per week.

240A-259B. INDIVIDUAL LESSONS
Prerequisite: Successful completion of 100-level lessons
and/or repertoire standards established by the Music Department. With department-approved instructors only. “A” numbers are for B.A. students, “B” numbers for B.M. students. Concurrent enrollment in the appropriate major performance ensemble is required.

240 Flute A: (1-1), B: (2-2)
241 Oboe A: (1-1), B: (2-2)
242 Bassoon A: (1-1), B: (2-2)
243 Clarinet A: (1-1), B: (2-2)
244 Saxophone A: (1-1), B: (2-2)
245 Trumpet A: (1-1), B: (2-2)
246 Horn A: (1-1), B: (2-2)
247 Trombone/Euphonium A: (1-1), B: (2-2)
248 Tuba A: (1-1), B: (2-2)
249 Percussion A: (1-1), B: (2-2)
250 Piano A: (1-1), B: (2-2)
251 Organ A: (1-1), B: (2-2)
252 Harpsichord A: (1-1), B: (2-2)
253 Harp A: (1-1), B: (2-2)
254 Voice A: (1-1), B: (2-2)
255 Violin A: (1-1), B: (2-2)
256 Viola A: (1-1), B: (2-2)
257 Violoncello A: (1-1), B: (2-2)
258 String Bass A: (1-1), B: (2-2)
259 Guitar A: (1-1), B: (2-2)

276. KEYBOARD ACCOMPANYING PRACTICUM (1-1)
Prerequisite: MU232A. Experience in accompanying individuals or groups in studio and rehearsal settings plus in subsequent performance. Time commitment comparable to ensemble participation.

287. CHAMBER MUSIC (1-1-1-1)
A detailed study of chamber music repertoire; performance and rehearsal techniques.

289. PERFORMANCE LAB (1-1-1-1)
Prerequisite: audition. Study and performance of works appropriate to the performance medium. CR/NC only.

291. ALEXANDER TECHNIQUE (1)
Identification and analysis of habitual movement patterns that cause excessive muscle tension and strain during practice and performance. Understanding and application of basic principles of neuromuscular re-education developed by F.M. Alexander. Intended for performance majors in the College of Arts, Media and Communication.

292. MUSIC THERAPY ORIENTATION (2)
Introduction to the field of Music Therapy and overview of its applications in various clinical settings.

293/L. FIELD EXPERIENCE IN MUSIC INDUSTRY (1/1)
Prerequisite: MU112/L. An overview of the music industry through on-site observation in a variety of settings. One hour lecture, 2 hours lab.

296A-Z. EXPERIMENTAL TOPICS IN MUSIC (1-3)
Selected topics in music with content to be determined.

UPPER DIVISION

300. MUSIC THEORY REVIEW (3)
An intensive review course covering all phases of diatonic and chromatic harmony. Intended essentially as a review for graduate students. No credit may be earned for graduate or undergraduate degrees.

301. MUSIC HISTORY REVIEW (3)
Prerequisite: MU202, or departmental approval. A comprehensive review of historical developments in Western music from the Middle Ages through the twentieth century. A stylistic analysis of the major areas of musical research supported by the study of scores and recordings. Intended essentially as review for graduate students. No credit may be earned for graduate or undergraduate degrees.

302. JAZZ HISTORY (2)
Prerequisite: MU112/L. A study of the history and stylistic development of the jazz idiom in American music. For Jazz Studies and Music Industry majors.

303. HISTORY OF ROCK AND POP MUSIC (2)
Prerequisite: MU112/L. A study of the history and stylistic development of popular and rock musical styles. For Music Industry majors.

306. INTRODUCTION TO JAZZ (3)
Prerequisite: completion of lower-division writing requirement. A survey of the development of Jazz, with emphasis on the influence of historical and socioeconomic factors. Includes stylistic analysis of Jazz and its musical elements in order to develop musical awareness. (Available for General Education, Humanities, except for music majors.)

307. MUSIC FROM A GLOBAL PERSPECTIVE (3)
Prerequisite: Upper division standing. A survey of music as a global phenomenon. A study of the rich musical contributions indigenous to or having origin in diverse traditions such as those found in African, Middle Eastern, Pacific Rim, and Latin American cultures. The development of a multicultural perspective that examines 1) its structure and performance practices, and 2) its function and implications within its culture. Application of this perspective to musical traditions from selected cultures.

309. TRADITIONAL MUSIC OF THE U.S. (3)
Prerequisite: Completion of the lower division writing requirement. An in-depth study of musical traditions identified with representative ethnic groups in the U.S. The course will examine musical structure and performance practices as well as functions and implications of the music within the cultures involved. Regular written assignments are required. (Available for General Education, Comparative Cultural Studies, except for music majors.)

310. UNDERSTANDING WORLD CULTURES THROUGH MUSIC (3)
Prerequisite: Completion of the lower division writing requirement. An in-depth study of several representative non-Western music cultures. The course will examine musical structure and performance practices as well as functions and implications of the music within the cultures involved. Regular written assignments are required. (Available for General Education, Comparative Cultural Studies, except for music majors.)

311/L. MUSICIANSHIP V (1/1)
Prerequisite: MU212/L. Development of basic skills in music making, including ear training; sight-singing; melodic, rhythmic, and harmonic dictation; conducting exercises; and fundamental terminology. 1 hour lecture, 2 hours lab.

MU311/L. MUSICIANSHIP V: JAZZ (1/1)
Prerequisite: MU212/IL. Development of basic skills in jazz music making, including ear training, sight-singing; melodic, rhythmic, and harmonic dictation; conducting exercises; and fundamental terminology. 1 hour lecture, 2 hours lab.
312. MUSICIanship VI (1/1)
Prerequisite: MU311/L. Development of basic skills in music making, including ear training; sight-singing; melodic, rhythmic, and harmonic dictation; conducting exercises; and fundamental terminology. 1 hour lecture, 2 hours lab.

312/. MUSICIanship VI: JAZZ (1/1)
Prerequisite: MU311J/L. Development of basic skills in jazz music making, including ear training; sight-singing, melodic, rhythmic, and harmonic dictation; conducting exercises; and fundamental terminology. 1 hour lecture, 2 hours lab.

313. MODAL COUNTERPOINT (2)
Prerequisite: MU214. Composition and analysis of contrapuntal forms in strict modal style. 2-and 3-melodic combinations.

314. TONAL COUNTERPOINT (3)
Prerequisite: MU214. Composition and analysis of contrapuntal forms in the 18th-century style of J.S. Bach. 2- and 3-voice melodic combinations.

315A-B. ORCHESTRAtion I AND II (2,3)
A—Prerequisite: MU214. The theory, practice, terminology, and notation of writing and arranging for instruments, from chamber ensembles to small orchestra.
B—Prerequisite: MU315A. Intensive study of the art of orchestration, emphasizing the creative and inventive side. Study of specific problems of scoring for chamber ensembles and symphony orchestra.

316. MUSICAL ANALYSIS (3)
Prerequisite: MU214. Analytic techniques for the study of balance in the organization of musical material.

317A-B. JAZZ ARRANGING I AND II (2-3)
A—Prerequisite: MU214J. Melody construction, harmonizing a given melodic line, writing for rhythm section, instrumentation, two- and three-part writing techniques, basic formal structures.
B—Prerequisite: MU317A. Four- and five-part writing, advanced forms and structures, advanced orchestration techniques, study of five “classic” arrangements.

319A-B. JAZZ IMPROVISATION III AND IV (2)
A—Prerequisite: MU219B. Theory and performance of jazz styles from 1920 to 1960. Special emphasis on musicianship, styles, concepts, and literature. 2 hours lab.
B—Prerequisite: MU319A. Theory and performance of jazz styles from 1960 to the present. Focus on performance practices of various styles. 2 hours lab.

320. TWENTIETH CENTURY COMPOSITION (2)
Prerequisite: MU214; co-requisite: MU311/L. Preliminary exercises in composition, specifically imitating the styles of great composers of art music in the 20th century.

321. BEGINNING COMPOSITION (2)
Prerequisite: MU320. Beginning composition of art music in the smaller forms, incorporating vocal, instrumental, and keyboard styles.

331. VOCAL REPERTOIRE (1)
Performance of vocal literature from the Baroque to the 20th Century. 2 hours lab per week.

332. PIANO REPERTOIRE (1)
Performance and study of piano literature from early Baroque through the Classical period. 2 hours lab per week.

334. STRUNGED INSTRUMENTS (1)
Class instruction in violin, viola, cello, and string bass. A familiarization with the bowed string instruments and beginner’s presentation methods. 2 hrs. lab per wk. Required for Music Education and Composition Options-others if space permits.

335. WOODWIND INSTRUMENTS (1)
Class instruction in woodwind instruments. Correct embouchure, tone production, and execution. Knowledge of basic playing techniques and fingerings on all woodwind instruments. 2 hrs. lab per wk. Required for Music Education and Composition Options-others if space permits.

336. BRASS INSTRUMENTS (1)
Class instruction in brass instruments. Correct embouchure, tone production, and execution. Knowledge of basic playing techniques and fingerings on all brass instruments. 2 hrs. lab per wk. Required for Music Education and Composition Options-others if space permits.

337. PERCUSSION INSTRUMENTS (1)
Class instruction in snare drum, bass drum, cymbals, timpani, mallet instruments, and accessories, with particular emphasis on teaching techniques and equipment selection. Two hours lab per wk. Required for Music Education Option-others if space permits.

338A. ELEMENTS OF VOCAL TECHNIQUE (1-1)
Group work in the fundamental techniques of singing. Problems of tone production, breath control, diction, repertoire, and interpretation. Open to all students. 2 hours lab per week.

339ABC. DICTION FOR SINGERS (1,1,1) (Formerly 339ABCD)
Prerequisite: 339A is prerequisite to 339B and 339C. A systematic study of diction as it pertains to the sung traditions of English, Italian, German and French. Emphasis is placed on the development of a process for mastering the textual line which includes the use of the International Phonetic Alphabet. Practical application through the performance of the selected solo vocal repertoire. The following sections are offered in various semesters: (A) Introduction to IPA/English, (B) German/Italian, (C) French. Two hours lab per wk.

340-359AB. INDIVIDUAL LESSONS
Prerequisites: Successful completion of 200-level individual lessons and/or repertoire standards established by the Music Department. “A” numbers are for B.A. students, “B” numbers for B.M. students. To be taken with department-approved instructors only. Concurrent enrollment in the appropriate major performance ensemble required.

340 Flute A: (1-1), B: (2-2)
341 Oboe A: (1-1), B: (2-2)
342 Bassoon A: (1-1), B: (2-2)
343 Clarinet A: (1-1), B: (2-2)
344 Saxophone A: (1-1), B: (2-2)
345 Trumpet A: (1-1), B: (2-2)
346 Horn A: (1-1), B: (2-2)
347 Trombone/Euphonium A: (1-1), B: (2-2)
348 Tuba A: (1-1), B: (2-2)
349 Percussion A: (1-1), B: (2-2)
350 Piano A: (1-1), B: (2-2)
351 Organ A: (1-1), B: (2-2)
352 Harpsichord A: (1-1), B: (2-2)
353 Harp A: (1-1), B: (2-2)
354 Voice A: (1-1), B: (2-2)
355 Violin A: (1-1), B: (2-2)
356 Viola A: (1-1), B: (2-2)
357 Violoncello A: (1-1), B: (2-2)
358 String Bass A: (1-1), B: (2-2)
359 Guitar A: (1-1), B: (2-2)
360/L. FUNCTIONAL MUSIC SKILLS FOR THERAPY (2/1)
The utilization of music in program development at community cultural centers, recreation centers, and senior citizen centers. Includes song materials, song-leading activities with instruments such as guitar, autoharp, hand bells, and Orff instruments. Emphasis on lifelong learning through musical participation and creativity. 2 hrs. lecture, 2 hours lab per week.

361/L. MUSIC LITERATURE FOR CHILDREN (2/1)
The development of fundamentals and principles for selecting, evaluating, and performing music literature for children grades K-6; the place of music in the child’s education. 2 hours lecture, 2 hours lab. For Liberal Studies and Child Development Majors.

362/L. MUSIC FOR EARLY CHILDHOOD (3)
Survey and performance of music literature suitable for children ages 3 through 8. The development of principles for organizing curriculum materials. 2 hours lecture, 2 hours lab. For Liberal Studies and Child Development Majors.

363/L. CHORAL CONDUCTING AND ARRANGING (3)
Prerequisite: MUS 212/L. Development of conducting techniques for choral ensembles, with supervised practical application. Score study of choral literature appropriate for various levels. Principles of arranging for middle- and high-school level groups, with practical assignments.

364/L. INSTRUMENTAL CONDUCTING & ARRANGING (3)
Prerequisite: MUS 212/L. Development of basic to advanced conducting skills with instrumental focus. For preparation of the conductor and the public school music teacher. Topics included: baton, rehearsal, and score study techniques, error detection and resultant strategies. Also, principles of arranging for middle- and high-school level ensembles, with practical application.

366. FOUNDATIONS AND FIELD OBSERVATION IN MUSIC EDUCATION (2)
An examination of the philosophical, historical, and traditional foundations of school music programs in the U.S. Also, guided observation in school music classes at elementary, junior high/middle school and high school levels (Two hours weekly). For students entering or considering music teaching as a career.

367. WORLD MUSIC IN EDUCATION (1)
Prerequisite: MU 307 and MU 366. Establishing a philosophical framework, exploring lesson design, and devising classroom presentation strategies for culture-specific music traditions.

368. STEEL DRUM ENSEMBLE (1-1-1-1)
Learning the playing techniques and performance practices of the steel drum ensemble and applying them to performance of repertoire appropriate for this group. Open to majors and non-majors. 3 hours weekly.

369. FIELD BAND TECHNIQUES (1)
Organization, implementation, and administration of marching band programs. Training of the band, percussion section, and color guard. Two hours per week.

370. UNIVERSITY CHORUS (1-1-1-1)
For majors and non-majors. The study of musical styles and rehearsal techniques through the performance of choral literature. 3 hours weekly.

371. JAZZ VOCAL ENSEMBLE (1-1-1-1)
Prerequisite: audition. Rehearsal and performance of representative vocal materials preparing the student for performance in the recording and film industries. Special attention to singing techniques unique to this idiom. 3 hours per week.

372. NORTHRIDGE SINGERS (2-2-2-2)
Prerequisite: audition. For voice majors and students with advanced vocal experience. The study of musical styles and rehearsal techniques through the performance of choral literature. 4 hours weekly.

374. CHAMBER SINGERS (1-1-1-1)
Prerequisite: audition. For students with advanced vocal experience. The study of musical styles and rehearsal techniques through performance of literature for chamber choir. 2 hours weekly.

376. OPERA CHORUS (1-1-1-1)
Prerequisite: audition. A study of musical styles and rehearsal techniques through the performance of operatic choral literature.

377. WOMEN’S CHORALE (1-1-1-1)
Prerequisite: audition. The study of musical styles and rehearsal techniques through the performance of choral literature for women’s voices. 3 hours weekly.

378AB. PERFORMANCE TECHNIQUES/OPERA WORKSHOP (1-1)
A. Development of techniques for enhancing stage performance by vocalists. Integration of acting and movement skills that increase the flexibility of the physical components of vocal performance. For vocal majors only.
B. Prerequisite: MUS 378A. Problems of opera production; presentation of typical operatic ensembles and scenes. May be repeated for credit.

379A. SYMPHONIC WIND ENSEMBLE (1-1-1-1)
Prerequisite: audition. The study and performance of musical literature written for winds, with stylistic and historical emphasis. 3 hours weekly.

379B. SYMPHONIC WIND ENSEMBLE (2-2-2-2)
Prerequisite: audition. The study and performance of musical literature written for winds, with stylistic and historical emphasis. 4 hours weekly. A minimum of 2 hours per week rehearsal outside of class is required.

381A. JAZZ ENSEMBLE (1-1-1-1)
Prerequisite: audition. Rehearsal and performance of literature written for large jazz ensemble. 3 hours weekly.

381B. JAZZ ENSEMBLE (2-2-2-2)
Prerequisite: audition. Rehearsal and performance of literature written for large jazz ensemble. 4 hours weekly. A minimum of 2 hours per week rehearsal outside of class is required.

382. SYMPHONIC ORCHESTRA (2-2-2-2)
Prerequisite: audition. The study of musical styles and rehearsal techniques through the performance of orchestral literature. 4 hours weekly.

383. MATADOR FIELD BAND (1-1)
The technical, stylistic, and aesthetic elements of field band; rehearsal and public performance. Open to all University students and community members. 4 hours weekly.

384. CHAMBER ORCHESTRA (1-1-1-1)
Prerequisite: audition. The study of musical styles and rehearsal techniques of Chamber Orchestra. 2 hours weekly.

385. BRASS ENSEMBLE (1-1-1-1)
For advanced students. Rehearsal and performance of standard brass ensemble literature, including brass choir, sextets, quintets and quartets. 2 hours weekly.
407. KEYBOARD LITERATURE (2)
Prerequisite: MU201,202. Study of the literature for solo keyboard instruments (harpichord and piano) from the Baroque to the present, with emphasis on evolving styles and forms.

408. ORGAN LITERATURE (2)
Prerequisite: MU201,202. Development of the organ from its beginnings to the present; survey of the various schools and periods of organ composition through study of selected composers and examples of literature.

409. CHAMBER MUSIC LITERATURE (2)
Prerequisite: MU201,202. A study of the use of percussion in the Classic orchestra, Romantic orchestra, and in contemporary settings. Solo literature for percussion instruments.

410. PERCUSSION LITERATURE (2)
Prerequisite: MU201,202. A study of the use of percussion in the Classic orchestra, Romantic orchestra, and in contemporary settings. Solo literature for percussion instruments.

411. HISTORY OF PERFORMANCE PRACTICES (2)
Prerequisite: MU201,202. A study of conditions, methods, techniques, and styles of performance.

412. CHORAL LITERATURE (2)
Prerequisite: MU201,202. A survey of choral repertoire from Gregorian chant to the present. Acquaintance with the various schools and historical periods of choral composition through study of representative works. Sources for obtaining performance editions.

416. ADVANCED MUSICAL ANALYSIS (2)
Prerequisite: MU316. Analysis of organization, balance, and style in larger works of the eighteenth, nineteenth, and twentieth centuries.

420. COMPOSITION FOR FILMS AND TV (3)
Prerequisite: MU212/L. A study of the aesthetic considerations and practical techniques involved when composing music for films and TV. Lectures, analysis, field trips to TV and film studios, practical application.

421. ADVANCED COMPOSITION (2-2)
Prerequisite: MU321. Advanced studies in art music composition in a seminar/master class format. Available for repeat credit.

432/L. MASTER CLASS: PIANO (1/1)
Prerequisite: Upper division standing. Performance, discussion, and study of literature from the Baroque Period to the present, with emphasis on the evolving elements of style and problems of interpretation. 1 hour lecture, 2 hours lab.

433/L. MASTER CLASS: GUITAR (1/1)
Prerequisite: Upper division standing. Performance of pre-guitar and guitar literature, including a study of style characteristics within the major historical periods. 1 hour lecture, 2 hours lab.

434/L. MASTER CLASS: STRINGS (1/1)
Prerequisite: Upper division standing. Stylistic analysis and interpretation of representative repertoire using student music industry.
performances and recorded sources. Study of history, techniques, repair and maintenance of the instruments. 1 hr. lecture, 2 hrs. lab.

435/L. MASTER CLASS: WINDS (1/1)
Prerequisite: Upper division standing. Performance, discussion and study of solo and small ensemble literature for wind instruments, with emphasis on contemporary solutions to stylistic idioms and analyzing problems of interpretation. 1 hour lecture, 2 hours lab.

437/L. MASTER CLASS: PERCUSSION (1/1)
Prerequisite: Upper division standing. Performance, discussion, and study of percussion literature, past and present, with emphasis on evolving elements of style and on analyzing problems of interpretation. 1 hour lecture, 2 hours lab.

438/L. MASTER CLASS: CHURCH MUSIC (1/1)
Prerequisite: Upper division standing. Development of specific organ performance skills and planning strategies applicable in selected religious worship contexts. 1 hour lecture, 2 hours lab. Open to Organ and Choral Performance majors only.

439A,B. INDIVIDUAL CONDUCTING LESSONS (1, 2)
Prerequisite: Music 364 or 365. On-campus private lessons with approved instructors. Special fee.

440-459A,B. INDIVIDUAL LESSONS
Prerequisite: Successful completion of 300-level individual study and/or repertoire standards established by the Music Department. “A” numbers are for B.A. students; “B” numbers are for B.M. students. Concurrent enrollment in the appropriate major performance ensemble is required. Study must be with department-approved instructors.

461A/AL. ELEMENTARY PIANO PEDAGOGY (1/1)
Prerequisite: Completion of sophomore piano requirements for music major. Foundations and principles of piano pedagogy. Emphasis on the development of methodology and standards in piano teaching and the development of practical teaching strategies. Supervised practice piano teaching is provided. 1 hour lecture, 2 hours lab.

461B/BL. ADVANCED PIANO PEDAGOGY (1/1)
Prerequisite: MU461A/AL. Presentation and analysis of intermediate and advanced procedures for piano instruction. Supervised practice piano teaching is provided. 1 hour lecture, 2 hours lab.

461C/CL. PIANO PEDAGOGY RESOURCES & MATERIALS (1/1)
Prerequisites: Music 461A/AL, B/BL. Study and analysis of elementary, intermediate and advanced piano literature and teaching aids. Technological aids for the piano teacher including synthesizers, computers, electronic keyboards and associated software. Application of literature, teaching aids and software in supervised individual and group teaching situations. Business considerations for the teacher. 1 hour lecture, 2 hours lab.

462/L. GUITAR PEDAGOGY (1/1)
Prerequisite: 300 level in individual study. The presentation and analysis of beginning and intermediate procedures for guitar instruction and suggested sequences of learning. Performances of the materials are encouraged, and guided practice in guitar teaching is provided. 1 hour lecture, 2 hours lab.

463/L. MUSIC THEORY PEDAGOGY (1/1)
Prerequisite: MU214. Techniques of teaching music theory effectively, including development of skills in lecturing, organizing courses, choosing teaching materials, giving effective assignments, and assessing student progress. 1 hour lecture, 2 hours lab.

464. STRING PEDAGOGY (2)
Prerequisite: 300 level on principal instrument. A study of issues and techniques relevant to teaching bowed string instruments. Practical application with students included.

465. WIND PEDAGOGY (2)
Prerequisite: 300 level on principal instrument. A study of the principles, techniques, materials and procedures effective for individual and group wind instrument instruction. Emphasis on the development of philosophy, methodology, and applied teaching strategies.

467. PERCUSSION PEDAGOGY (2)
Prerequisite: 300 level in individual study. A comprehensive study of current literature and techniques in the field of percussion instruction. Included: snare drum, cymbals, timpani, mallet instruments, drumset, and accessory instruments.

468. PEDAGOGY OF SINGING (2)
Prerequisite: 300 level in individual study. Study of vocal physiological function and procedures for vocal production in individual and group singing. Survey of suitable materials for beginning instruction. Course includes reading assignments, supervised teaching experiences, and on-site studio and choral rehearsal observations.

469. CHORAL PEDAGOGY (2)
Prerequisite: MUS 211/L. A study of vocal principles and techniques of choral instruction for children’s, youth, and amateur adult choirs. Guidance in the selection of performance literature and teaching materials appropriate to each age group. Off-campus observation of selected choral programs required.

473/L. CHORAL METHODS AND PRACTICUM (4)
Prerequisite: MUS 363/L. An intensive preparation course for teaching choral music in schools (elementary, middle, high school). Includes examination of appropriate literature, study of pedagogical, organizational, and management procedures for the rehearsal classroom. Practicum component: supervised teaching experience with peers and with on-site groups. 2 hours weekly.
474/L. INSTRUMENTAL METHODS AND PRACTICUM (4)
Prerequisite: 364/L. An intensive preparation course for teaching instrumental music in schools (elementary, middle, high school). Includes examination of appropriate literature, study of pedagogical, organizational, and management procedures for the rehearsal classroom. Practicum component: supervised teaching experience.

476. KEYBOARD ACCOMPANIMENT PRACTICUM (1-1)
Prerequisite: MUS 232A, 300 level in individual study. Experience in accompanying individuals or groups in studio and rehearsal settings plus in subsequent performance. Time commitment comparable to ensemble participation. Not available for graduate credit.

477. MUSIC THERAPY PRACTICUM (1-1-1-1)
Prerequisite: MUS 292. Supervised clinical experience in Music Therapy in a variety of settings and client populations. Credit/no credit only.

478. PIANO PEDAGOGY PRACTICUM (2-2-2)
Prerequisites: Music 461A/AL, 461B/BL. Training and guided practice teaching in a wide variety of settings and at various levels of advancement.

479. GENERAL MUSIC PRACTICUM (1)
Prerequisite: MUS 366. Guided practical experience in planning and teaching general music classes in Elementary and Middle School. Also includes development of prescribed competency in guitar and recorder. 2 hours weekly.

480. ALTERNATIVE VOCAL APPLICATIONS (1)
Prerequisite: MUS 212/L. Study and observation of vocal ensemble applications gaining currency in today’s public school setting (jazz vocal ensemble, show choir, etc.) 2 hours weekly.

481. ALTERNATIVE INSTRUMENTAL APPLICATIONS (1)
Prerequisite: MUS 212/L. Study and observation of alternative instrumental ensemble application gaining currency in today’s school settings. 2 hours weekly.

484. PIANO ENSEMBLE (1-1-1-1)
Prerequisite: 300 level in individual study. For advanced pianists. Rehearsal and performance of piano ensemble music, including duets and duo-piano music, with emphasis on style and rehearsal techniques. 2 hours lab per week.

485. 20TH CENTURY MUSIC ENSEMBLE (1-1-1-1)
Rehearsal and performance of 20th century chamber music literature, with special emphasis on recent works and student compositions. 2 hours lab weekly.

487. CHAMBER MUSIC (1-1-1-1)
A detailed study of chamber music repertoire; performance and rehearsal techniques. 2 hrs. lab weekly.

488A-B-C. ADVANCED OPERA PERFORMANCE (2-2-2)
Prerequisite: audition. The musical and dramatic preparation of an operatic role from a selected historical period, striving for a complete integration of music and action, culminating in public performance. Study of the role’s traditional and historical style and practice. 4 hours lab.

489. PERFORMANCE LABORATORY (1-1-1-1)(Formerly 368)
Prerequisite: audition. Performance and study of work368s appropriate to the performance medium. Credit/no credit.

491. PSYCHOLOGY OF MUSIC (3)
Inquiry into the application of music to the more recent developments in psychology.

492. INFLUENCE OF MUSIC ON BEHAVIOR (4) (Formerly 489)
The study of music as a form of human behavior and the fundamental constructs for the use of music as a therapeutic medium.

493. MUSIC PRODUCTION (3)
Prerequisite: MUS 393. Study of the making and marketing of music for recording, TV, film, and live performance aspects of the industry.

494ABC. INTERNSHIP IN MUSIC (1-3)
A variable-credit internship providing a culminating experience to the course of study. Repeatable up to 6 units.

495. SENIOR RECITAL/PROJECT (1)
Offered for credit/no credit only.

496A-Z. EXPERIMENTAL TOPICS IN MUSIC (1-3)
Selected topics in music with course content to be determined.

498. RESEARCH PROJECT (2)
Prerequisite: Senior status in major option. Research and preparation of an undergraduate project under the supervision of the music faculty. Offered for credit/no credit only.

499. INDEPENDENT STUDY (1-3)
Prerequisites: Consent of an instructor to act as sponsor and permission of the Dept. Chair. Not to be substituted for an existing course. Evidence of ability to pursue in-depth independent study and approval of project to be submitted prior to registration Maximum of 6 units may be earned.

INTERDISCIPLINARY ARTS STUDY
The College of Arts, Media and Communication on occasion offers interdisciplinary courses that combine topics or projects from two or more departments, primarily in the Arts; these courses normally are team taught.

ARTS 496A-Z. INTERDISCIPLINARY ARTS STUDY
ARTS 497. INTERNSHIP IN THE ARTS (3-3)
Prerequisites: Senior or graduate standing, portfolio review or audition and consent of the instructor. Supervised Off Campus Experiential Education (SOCEE) in an approved aspect of the arts. Six units maximum, three of which may be graduate. Course offered for credit/no credit only.

GRADUATE COURSES IN MUSIC
(400-level courses are acceptable for the Master’s degree. 500-level courses require graduate standing or instructor consent for undergraduate participation.)

565. SEMINAR IN ADVANCED INSTRUMENTAL CONDUCTING (2)
The preparation of scores in the media of band, orchestra, and chorus for performance. Special emphasis on effective rehearsal procedures, stylistic values and score analysis.

566. SEMINAR IN ADVANCED CHORAL CONDUCTING (2)
The preparation of choral scores from various historical periods with special emphasis in score analysis, stylistic interpretation, rehearsal procedures, and conducting techniques.

567/567L. COMPUTERS & RELATED TECHNOLOGY IN MUSIC (3)
Prerequisite: Secondary Education. 514 or equivalent. This course prepares music credential candidates to utilize current technology in teaching music in the K-12th grade curriculum.
Applications including the use of computers, synthesizers, MIDI manipulation, and multi-track recording. Class sessions include lecture, discussion, and demonstration essential to carrying out lab assignments. The course meets the Title V computer education requirement (80422), Level 2: Specific Subject Area and/or Grade Level Competencies for the Clear Teaching Credential.

601. TECHNIQUES OF RESEARCH AND BIBLIOGRAPHY IN MUSIC (3)
An introduction to musical research, involving bibliographic methods, the tools of research, and the organization and writing of research studies relevant to the interest areas of Composition, Music Education, Musicology or Performance.

603ABCD. SEMINAR IN MUSICOLOGY (3,3,3,3)
Prerequisite: Satisfactory completion of graduate entrance exam in Music History. Normally 601 is prerequisite to 603ABC; it may be taken concurrently with D or E. Each seminar includes intensive analysis and research into the repertoire, forms, styles, media, musicians, composers, and performance practices of a selected period in Western music history. The following sections are offered in various semesters: (A) Renaissance Era, (B) Baroque, (C) Classic, (D) Romantic, and (E) Twentieth Century.

604. SEMINAR IN MUSICAL ANALYSIS (3)
Prerequisite: MUS 316 or equivalent. A study of larger musical works; the relationships of the musical structure, materials, organization, and style of the aesthetic whole.

610. THE MUSIC OF BARTOK AND STRAVINSKY (2)
An intensive study of the music of Bartok and Stravinsky, including a detailed analysis of their stylistic development and techniques of composition.

625. ADVANCED ORCHESTRATION (3)
Prerequisite: MUS 315AB or equivalent. Intensive study of the art of orchestration with special emphasis on 20th century techniques. Study of specific problems of scoring for chamber ensembles and symphony orchestra.

630. COMPOSITION (2)
Prerequisite: Music 421 or equivalent. Composition in the larger forms, in contemporary style.

640-659AB INDIVIDUAL PERFORMANCE LESSONS

640. Flute A: (1-1), B: (2-2)
641. Oboe A: (1-1), B: (2-2)
642. Bassoon A: (1-1), B: (2-2)
643. Clarinet A: (1-1), B: (2-2)
644. Saxophone A: (1-1), B: (2-2)
645. Trumpet A: (1-1), B: (2-2)
646. Horn A: (1-1), B: (2-2)
647. Trombone/Euphonium A: (1-1), B: (2-2)
648. Tuba A: (1-1), B: (2-2)
649. Percussion A: (1-1), B: (2-2)
650. Piano A: (1-1), B: (2-2)
651. Organ A: (1-1), B: (2-2)
652. Harpsichord A: (1-1), B: (2-2)
653. Harp A: (1-1), B: (2-2)
654. Voice A: (1-1), B: (2-2)
655. Violin A: (1-1), B: (2-2)
656. Viola A: (1-1), B: (2-2)
657. Violoncello A: (1-1), B: (2-2)
658. Bass A: (1-1), B: (2-2)
659. Guitar A: (1-1), B: (2-2)

660AB. INDIVIDUAL CONDUCTING LESSONS A: (1-1), B: (2-2)

661. SEMINAR IN PHILOSOPHY AND PRACTICE IN MUSIC EDUCATION (3)
Prerequisite: MUS 475 or equivalent, Education 425Mu or consent of instructor. Current philosophy and practices in the music education program from elementary school through secondary school. Analysis and study of current trends and materials.

662. PRACTICUM IN METHODS AND MATERIALS FOR PUBLIC SCHOOL MUSIC (3)
Music literature for use in the public schools. Methods and conducting techniques, related historically and stylistically to the literature.

663. TESTS AND MEASUREMENTS IN MUSIC (2)
Study of existing tests used in the evaluation of musical aptitude and achievement. Consideration is given to a) basic statistical concepts, b) the nature of musical aptitude, and c) construction, administration, and interpretation of tests.

664. ADMINISTRATION AND SUPERVISION OF MUSIC (2)
A study of the philosophy, techniques and current practices in the administration and supervision of music.

694. SEMINAR IN AESTHETICS OF MUSIC (3)
Prerequisites: Phil. 380 or consent of instructor. A study of basic concepts of art and beauty in their application to music. A historical and comparative survey of the principal aesthetic theories and critical distinctions related to musical perception, creativity, evaluation, and performance.

696. DIRECTED RESEARCH (1-2)

698. THESIS, ARTISTIC PERFORMANCE, OR GRADUATE PROJECT (3)
(See Guidelines for the Preparation of Theses, Graduate Projects and Artistic Performances.)

699. INDEPENDENT STUDY (1-6)
Prerequisites: Classified status, consent of an instructor/sponsor, and review by the Graduate Coordinator. 6 units maximum.

MUSIC FORMER/NEW NUMBERING SYSTEMS
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<td>488ABC Adv. Opera Perform</td>
<td>477 Music Ther. Practicum</td>
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<td>491 Psychology of Music</td>
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<td>492/L Infl. Mus. on Behavior</td>
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<td>494A Internship in Music (1)</td>
<td>495 Senior Recital/Project</td>
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<td>494C Internship in Music (3)</td>
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<td>495 Senior Recital</td>
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<td>496A-Z Experimental Topics</td>
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<td>499A Independent Study (1)</td>
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<td>499C Independent Study (3)</td>
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PAN-AFRICAN STUDIES

Chair: David Lawrence Horne, Ph.D

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

Department Office: Faculty Office Building 221
Phone: (818) 677-3311    Fax: (818) 677-3619
E-mail: david.l.horne@csun.edu
Website: www.csun.edu/~panafrica/
Secretary: Kiera Jackson-Desvarieux
Clerical/Publications Assistant: Celia Green

FACULTY:

James H. Bracy, Verne L. Bryant, James E. Dennis, Joseph E. Holloway, David L. Horne (Chair), Eleazu S. Obinna, Rosentene Bennett Purnell, Barbara A. Rhodes, Johnie H. Scott, Tom Spencer-Walters, Kristal Brent Zook.

DEGREES OFFERED: B.A. in African American Studies.

In addition, through the PAS Department, and in conjunction with several other disciplines and departments on campus, students can earn an Interdisciplinary Master’s degree. Please see a PAS advisor for details.

CREDENTIAL INFORMATION: The major in Pan African Studies is an approved teaching concentration for a Secondary Teaching Credential. Some of the courses regularly taught in the PAS Department also satisfy the multicultural requirements for the Credential Program. (For details and clarifications regarding the Credential Program at CSUN, please see the Credentials section of this catalog or refer to an advisor.)

ACADEMIC ADVISEMENT: Each student majoring in PAS will be assigned a faculty mentor who will also serve as an academic advisor.

DEPARTMENT PROGRAMS: The Pan African Studies major and minor are course sequences and concentrations within an interdisciplinary curriculum (including History, Political Science, Literature, Culture, Psychology, Sociology, Religion and others) which provide students intellectual training in understanding and analyzing both the broad range of the African American experience in the United States and issues of the Diaspora. The Department encompasses university-trained social scientists and humanists from most of the major academic disciplines in the Social and Behavioral Sciences. PAS faculty also include distinguished scholars in the Humanities. PAS majors who complete the required departmental offerings regularly go on to graduate and professional schools—including, for example, to accredited institutions which offer the J.D. degree (law school), the MSW, the MFA, the MPH, the Master’s in Educational Counseling, Ph.D’s, and teaching credentials for public schools—or go directly into internships and employment.

THE MAJOR: The Pan African Studies major is a multi-disciplinary academic major (45 units) designed to meet the needs of those students who wish to gain an understanding of the history, psychology, sociology, literature and culture of African Americans and Africans of the Diaspora. The three specific Options within the major enable students to concentrate their efforts on certain aspects of this broad subject. These Options are intended to enhance students’ preparation for both graduate school and employment. By carefully selecting Title 5 and CSUN General Education courses in consultation with a PAS advisor, students majoring in Pan African Studies also have the opportunity to complete a second major. For example, a double major in Pan African Studies and Urban Studies and Planning, can be completed with the selection of Option I, below, plus the core course requirements in Urban Studies and Planning. The 19-unit minor in Business can also be completed with any of the three PAS Options outlined below. These are but two of the major combinations a student might choose.

CAREERS: PAS majors go on to law school, to graduate schools of counseling and psychology, to schools of Social Work, to African history and area studies programs, to public school teaching credential programs, to Ph.D. and MFA programs, to schools of Public Administration and Policy, to schools of Public Health, to American Studies programs, to American and African American history programs, to entrepreneurial programs, and more.

Typical immediate employment options for a graduated PAS major include the probation department, editorial work at publishing enterprises, community development program directors or assistants, bank tellers and/or managerial trainees, retail sales positions, K-12 teaching, Teaching Assistant and Research Assistant positions in graduate school, and more. For additional information regarding PAS-related career options, consult the PAS Department.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

The Pan African Studies academic major consists of two components: the completion of the core requirements (21 units) and the completion of one of three specific Options (24 units), as listed below. For each of the Options, there are specific lower and upper division core courses and electives designed to be relevant to that concentration. All students who major in Pan African Studies must select one of the three Options, each of which is designed to prepare students for rigorous graduate study or for employment.

OPTION I: AFRICAN AMERICAN SOCIAL SCIENCES

OPTION II: AFRICAN AMERICAN ARTS & LITERATURE

OPTION III: AFRICAN AND AFRICAN AMERICAN CULTURAL STUDIES

CORE REQUIREMENTS (21 UNITS)

LOWER DIVISION

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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>PAS 100</td>
<td>Introduction to Black Culture</td>
<td>3</td>
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<tr>
<td>PAS 161</td>
<td>American Political Institutions: A Black Perspective</td>
<td>3</td>
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<tr>
<td>PAS 201</td>
<td>Economics of the African American Community I</td>
<td>3</td>
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<td>PAS 220</td>
<td>Psychological Environment of the African American</td>
<td>3</td>
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<tr>
<td>PAS 221</td>
<td>Sociological Environment of the African American</td>
<td>3</td>
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<tr>
<td>PAS 271</td>
<td>African American History to 1865</td>
<td>3</td>
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<tr>
<td>PAS 272</td>
<td>African American History since 1865</td>
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UPPER DIVISION

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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>PAS 350</td>
<td>Advanced Writing</td>
<td>3</td>
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<tr>
<td>PAS 498</td>
<td>Proseminar in Pan African Studies: Methodology, Research &amp; Analysis</td>
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OPTION I: SOCIAL SCIENCES

REQUIRED COURSES IN THE OPTION: 15 UNITS

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PAS 320</td>
<td>African American Personality</td>
<td>3</td>
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<tr>
<td>PAS 322</td>
<td>The African American Family</td>
<td>3</td>
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<tr>
<td>PAS 301</td>
<td>Economics of the African American Community II</td>
<td>3</td>
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<tr>
<td>PAS 361</td>
<td>African American Politics</td>
<td>3</td>
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<tr>
<td>PAS 486SOC</td>
<td>Social Science Career Internship</td>
<td>3</td>
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<tr>
<td>PAS 392A-Z</td>
<td>Fieldwork in African American Community</td>
<td>3</td>
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</tbody>
</table>
ELECTIVES: 9 UNITS
Select from the following:
PAS 110 Fundamentals of Business Organization and Management ..................3
PAS 165 Introduction to Pan Africanism ..................3
PAS 210 Consumer Behavior in the African American Communities ..................3
PAS 220 Psychological Environment of the African American ..................3
PAS 221 Sociological Environment of the African American ..................3
PAS 311 Black Psychology ...........................................3
PAS 324 The Black Woman in Contemporary Times ..................3
PAS 325 The Black Man in Contemporary Times ..................3
PAS 391 Psychological Foundations of Education (Elementary) ..................3
PAS 397 Sociological Foundations of Education (Elementary) ..................3
PAS 420 The Black Child .............................................3
PAS 421 Strategies for Black Child Development ..................3
PAS 496A-Z Experimental Topics with course content to be determined. (Consult with advisor for appropriate topic relevant to this Option) ..................3
PAS 499A-C Independent Study ..................1-3

TOTAL UNITS IN OPTION: 24

OPTION II: AFRICAN AMERICAN ARTS & LITERATURE
REQUIRED COURSES IN THE OPTION: 12 UNITS
PAS 244 African American Literature to 1930 ..................3
PAS 245 African American Literature since 1930 ..................3
PAS 246 Introduction to African American Drama ..................3
PAS 332 African American Music I ..................3
and
One of the following four courses:
PAS 280 Workshop in Creative Writing for Minority Students ..................3
PAS 331 African American Religious Music: History and Literature ..................3
and
PAS 331/L Gospel Laboratory ..................1
PAS 355 Black World News Practicum ..................3
PAS 447 African American Theater ..................3

ELECTIVES: 12 UNITS
Select Four courses from the following:
PAS 280 Workshop in Creative Writing for Minority Students ..................3
PAS 331 African American Religious Music: History and Literature ..................3
and
PAS 331/L Gospel Laboratory ..................1
PAS 333 Coltrane ..................3
PAS 337 Black Images on the Silver Screen ..................3
PAS 344 Literature of the Caribbean and African Experience ..................3
PAS 345 African American Autobiography ..................3
PAS 346 Contemporary Black Female Writers ..................3
PAS 355 Black World News Practicum ..................3
PAS 399 Bilingualism in the African American Community ..................3
PAS 447 African American Theatre ..................3
PAS 451 Mass Communication in the African American Community ..................3

PAS 496A-Z Experimental Topics (course content to be determined) ..................3
PAS 499A-C Independent Study ..................1-3

TOTAL UNITS IN OPTION: 24

OPTION III: AFRICAN AND AFRICAN AMERICAN CULTURAL STUDIES
REQUIRED COURSES IN THE OPTION: 15 UNITS
PAS 226 Traditional African Cultures ..................3
PAS 271 African American History to 1865 ..................3
or
PAS 272 African American History since 1865 (whichever was not taken as part of the core) ..................3
PAS 376 African Enslavement In the New World ..................3
PAS 366 Colonialism in Africa ..................3
PAS 463 Pan-Africanism: Development of an Ideology 1865-1954 ..................3

SELECT EITHER THE AFRICAN CONCENTRATION OR THE AFRICAN AMERICAN CONCENTRATION:

AFRICAN CONCENTRATION:
Select 9 units from the following:
PAS 171 Classical African Civilization ..................3
PAS 282 African Religion in the New World ..................3
PAS 384 Pan-African Philosophical Thought ..................3
HIST 423 African History since 19th Century ..................3
HIST 436 African History since 19th Century ..................3
PAS 396A-Z Experimental Topics (Consult with advisor for appropriate topic relevant to this Option) ..................3
PAS 499A-C Independent Study ..................1-3

AFRICAN AMERICAN CONCENTRATION:
Select 9 units from the following:
PAS 222 Elements of the Human Geography of the African American ..................3
PAS 274 History of the Caribbean Societies since 1830 ..................3
PAS 300 Contemporary Issues in the African American Community ..................3
PAS 345 African American Autobiography ..................3
PAS 367 Politics of Non-Violent Dir. Act ..................3
PAS 386 African American Philosophical Thought ..................3
PAS 484 African American Belief and Western Christianity ..................3
PAS 496A-Z Experimental Topics (Consult with advisor for appropriate topic relevant to this Option) ..................3
PAS 499A-C Independent Study ..................1-3

TOTAL UNITS IN OPTION: 24

LANGUAGES (OPTIONAL)
All students majoring in Pan-African Studies are encouraged to take foreign languages (French, Portuguese, or Swahili recommended).

TOTAL UNITS IN THE MAJOR (45 UNITS)

GENERAL EDUCATION
The PAS Department offers courses in the G.E. pattern. Please consult with an undergraduate or departmental advisor in deciding on these courses.

TITLE 5
The PAS Department offers three courses relevant to this requirement: PAS 161, PAS 271, PAS 272.
MINOR
The PAS minor consists of 24 units. Students should work out with an advisor a program to complement their major. They will be able to choose courses from a wide range of offerings which can provide a background in several areas critical to the student’s understanding of the African world experience:

LOWER DIVISION
Required courses (6 units) selected from the courses below:
- PAS 161 American Political Institutions: A Black Perspective ............................. 3
- PAS 165 Introduction to Pan-Africanism ................................................................. 3
- PAS 171 Classical African Civilization ................................................................. 3
- PAS 220 Psychological Environment of the African-American ......................... 3
- PAS 221 Sociological Environment of the African-American ......................... 3
- PAS 222 Elements of the Human Geography of the African-American .............. 3
- PAS 244 African-American Literature since 1930 ............................................. 3
- PAS 245 African-American Literature to 1930 ................................................. 3
- PAS 271 African-American History to 1869 ..................................................... 3
- PAS 272 African-American History since 1865 ............................................... 3

Three additional units to be chosen from the following:
- PAS 100 Introduction to Black Culture ................................................................. 3
- PAS 161 American Political Institutions: A Black Perspective ......................... 3
- PAS 165 Introduction to Pan-Africanism ................................................................. 3
- PAS 171 Classical African Civilization ................................................................. 3
- PAS 220 Psychological Environment of the African-American ......................... 3
- PAS 221 Sociological Environment of the African-American ......................... 3
- PAS 222 Elements of the Human Geography of the African-American .............. 3
- PAS 244 African-American Literature since 1930 ............................................. 3
- PAS 245 African-American Literature to 1930 ................................................. 3
- PAS 271 African-American History to 1869 ..................................................... 3
- PAS 272 African-American History since 1865 ............................................... 3

UPPER DIVISION
Select 12 units of upper division Pan-African Studies courses, in consultation with a PAS advisor.

GRADUATE COURSES
Currently, the PAS Department does not have a stand-alone Master’s Program. However, the university does offer a master’s degree in Interdisciplinary Studies that allows students to receive graduate training in two disciplines or, in some cases, three.

The PAS Department will offer six to nine graduate units per semester. The following are the approved graduate courses of the PAS Department:
- PAS 595A, 595B, 600, 601, 602ABC

COURSE LIST
LOWER DIVISION
097. DEVELOPMENTAL READING (3 UNITS UNIVERSITY CREDIT; NO CREDIT TOWARD GRADUATION)
Course serves as a prerequisite to PAS 155, CH S 155, or ENG 155 for students scoring 141 or below on the English Placement Test (EPT). Intensive study of basic reading skills, focusing on the types of reading students will do in college. Students will be required to pass an exit examination before taking PAS 155, or its equivalent. PAS 097 is equivalent to ENGL 097, CHS 097, and AAS 097. Available on a CR/NC basis only.

098. BASIC WRITING SKILLS (3 UNITS UNIVERSITY CREDIT; NO CREDIT TOWARD GRADUATION)
A writing skills course designed for students who score between 141-150 on the EPT to develop skills in the writing of the essay. The course focuses on basic skills: the sentence, the rhetoric of the paragraph, with some mechanics and grammar. This course is also designed for the student who anticipates problems in a college-level composition course, and it is a prerequisite for PAS 155 for students who are placed in PAS 098. PAS 098 is equivalent to ENG 098, CHS 098, and AAS 098. Available on a CR/NC basis only.

099. WRITER’S WORKSHOP (1 UNIT UNIVERSITY CREDIT; NO CREDIT TOWARD GRADUATION)
A course emphasizing the development of the individual student’s writing abilities with intensive practice in basic writing skills, including grammar, usage, and other aspects of the composing process. May be taken by any student who wishes to improve his/her writing skills, whatever the level. Two hours of laboratory per week. For Credit/No Credit only.

100. INTRODUCTION TO BLACK CULTURE (3)
An overview of the basic areas of Black culture, including history, religion, social organization, politics, economics, psychology, and creative production, with a survey of the key concepts and fundamental literature in each area. (Available for General Education, Comparative Cultural Studies.)

110. FUNDAMENTALS OF BUSINESS ORGANIZATION AND MANAGEMENT (3)
A survey of business functions in the African-American community. Enterprise management in the broadest sense is designed to integrate experience into a coherent, realistic approach to business organization and management. (Available for General Education, Applied Arts and Sciences.)

151. FRESHMAN SPEECH COMMUNICATION (3)
Prerequisite: EPT score of 151 or better. An introduction to the study of the human communication process with an emphasis upon techniques of contemporary African-American rhetoric. Course will include intensive practice in public speaking, logical reasoning and critical listening. Students will receive credit for only one course chosen from CH S 151, PAS 151, and COMS 151. (Available for General Education, Basic Subjects.)

155. FRESHMAN COMPOSITION (3)
Prerequisites: A score of 151 on the CSU English Placement Test or better and a grade of CR in 097 and/or 098, if appropriate. A directed writing course designed to teach students to write effectively in the Standard American dialect; to find facts to develop their ideas; to organize and present material clearly, logically, and persuasively; and to read multi-cultural expository prose critically and accurately. Students will receive credit for only one course chosen from Chicano Studies 155, English 155, and Pan African Studies 155. (Available for General Education, Basic Subjects.)

161. AMERICAN POLITICAL INSTITUTIONS: A BLACK PERSPECTIVE (3)
An examination of the development and dynamics of American political institutions and political processes as they relate to the experiences of African-Americans. (Meets Title V requirements for Constitution of the United States and California State and Local Government.)

165. INTRODUCTION TO PAN-AFRICANISM (3)
An examination of the origin and growth of the Pan-African Movement from the nineteenth century to the present time. A critical evaluation of major Pan-African ideologists and practitioners. The successes and failures of the Organization of African Unity from 1963 to the present time. Strongly recommended for all PAS majors and minors. (Available for General Education, Comparative Cultural Studies.)
244. AFRICAN-AMERICAN LITERATURE TO 1930 (3)
A survey of the literature of African-Americans from 1770 to 1930, analyzing their literary development within a historical context to gain insight into the fullness of the impact of America on African-American life. The course includes writings of enslaved Africans and freedpersons, the novels and poetry of the post-Emancipation period, the writings of the period 1920-1930 commonly referred to as the Harlem Renaissance, and the work of writers in the Caribbean and in South America from the time of the Haitian Revolution.

245. AFRICAN AMERICAN LITERATURE SINCE 1930 (3)
An introduction to major African American authors from 1930 to the present. The works of Richard Wright, Margaret Walker, Gwendolyn Brooks, Ralph Ellison, John Killens, James Baldwin and LeRoi Jones will be studied, as well as the works of writers who formed the Black Arts Movement which flourished during the 1970's. The course will focus on understanding the dynamics of African American life through an analysis of the literature. (Available for General Education, Humanities.)

246. INTRODUCTION TO AFRICAN-AMERICAN DRAMA (3)
A chronological survey of the major works of representative African American dramatists from 1925 to the present, with particular focus on their techniques, their ideas, and on the cultural milieu in which the works are produced. (Available for General Education, Humanities.)

271. AFRICAN-AMERICAN HISTORY TO 1865 (3)
A survey course examining the themes and issues in the history of the African peoples in America up to 1865. (Meets Title V requirements in American History, Institutions and Ideals.)

272. AFRICAN-AMERICAN HISTORY SINCE 1865 (3)
A survey course in African-American history covering the period 1865 to the present. The course will include the Reconstruction era, post-Reconstruction, the Negro Renaissance, the Civil Rights Movement, and Black Nationalism. (Meets Title V requirements in American History, Institutions and Ideals.)

274. HISTORY OF CARIBBEAN SOCIETIES SINCE 1830'S (3)
An historical approach to an analysis of the political, social and economic development of the Caribbean islands after the 1830's. The general focus of this course will be centered on post-emancipation colonialism and the development of a particular form of neo-colonialism that manifested itself after independence. The course also includes an examination of the emergence of contemporary radical political movements.

280. WORKSHOP IN CREATIVE WRITING FOR MINORITY STUDENTS (3)
Prerequisite: Completion of the lower division writing requirement. An introductory workshop in minority creative writing. Students will experiment with the three genres: prose fiction, poetry and drama. In addition, students will have the opportunity to meet and work with distinguished professional minority writers. (Same as English 280 and Chicano Studies 280.) Students should consult with the instructor about the semester syllabus and the minority literature concentration. (Available for General Education, Humanities.)

282. AFRICAN RELIGION IN THE NEW WORLD (3)
A survey examination of religion as practiced by Africans and their descendants in the New World. This course will consider the unique and diverse religious experiences of African peoples as well as the impact of African religion on the development of Christianity in the New World. It will also consider the religious beliefs and practices of other African peoples who have migrated to the Western Hemisphere. (Available for General Education, Humanities.)

284. WORKSHOP IN CREATIVE WRITING FOR MINORITY STUDENTS (3)
Prerequisite: Completion of the lower division writing requirement. An introductory workshop in minority creative writing. Students will experiment with the three genres: prose fiction, poetry and drama. In addition, students will have the opportunity to meet and work with distinguished professional minority writers. (Same as English 280 and Chicano Studies 280.) Students should consult with the instructor about the semester syllabus and the minority literature concentration. (Available for General Education, Humanities.)
development of African culture in the New World.

(300. CONTEMPORARY ISSUES IN THE AFRICAN-AMERICAN
     COMMUNITY (3)
     Prerequisite: Completion of the lower-division writing
     requirement. An in-depth exploration of the social, political,
     cultural, and economic issues in the African-American
     community. Provides insight on the extent to which these
     issues affect the Black individual and family in their
     interaction with the majority American society. (Available
     for Section B of the Multicultural Requirement for
     Credential Candidates and for General Education,
     Comparative Cultural Studies.)

301. ECONOMICS OF THE AFRICAN-AMERICAN
     COMMUNITY II (3)
     A study of the household as a consuming unit and the firm
     as a producing unit, exploring factor costs, price
     determinatives and income distribution, with emphasis on
     the African-American community and its lack of control
     over the means of production.

311. BLACK PSYCHOLOGY (3)
     An examination of the major theories and research by black
     scholars addressing the development of a Black Psychology.
     Comparisons and contrasts are made with “Traditional
     Psychology. A Pan Africanist perspective is taken, i.e.,
     African, Caribbean, etc.

320. AFRICAN-AMERICAN PERSONALITY DEVELOPMENT (3)
     Prerequisite: PAS 220 and/or an introductory course in
     Psychology and completion of the lower-division writing
     requirement. A study of the psychological manifestations
     of oppression of the African-American. Emphasis on the
     understanding and analysis of psychological stress, the
     assessment of this phenomenon and discussion of the
     solutions for the creation of a positive self-concept in
     African-American people. (Available for General Education,
     Comparative Cultural Studies.)

322. AFRICAN-AMERICAN FAMILY (3)
     Prerequisite: Completion of the lower-division writing
     requirement. Course summarizes structural evaluation and
     role formation of the family. Presents an overview of the
     traditional African family and socialization process. Focuses
     on the impact of slavery and post-slavery institutions on
     the formation of the Black family in America. (Available for
     General Education, Comparative Cultural Studies.)

324. THE BLACK WOMAN IN CONTEMPORARY TIMES (3)
     Prerequisite: Completion of the lower division writing
     requirement. Examines the social, political and
     psychological forces impacting the lives of Black women
     and focuses on their expectations, opportunities, problems
     and goals in contemporary society. Also studies the Black
     woman's contribution to the family and the community.
     (Available for General Education, Comparative Cultural
     Studies.)

325. THE BLACK MAN IN CONTEMPORARY TIMES (3)
     Prerequisite: Completion of the lower division writing
     requirement. Examines the social, political, and psychological
     forces affecting the lives of Black men and focuses on their
     expectations, opportunities, problems, and goals in
     contemporary society. The contributions of the Black male
     and his relationships to the family, the community, and to
     American society are studied. (Available for General
     Education, Comparative Cultural Studies.)

331. AFRICAN-AMERICAN RELIGIOUS MUSIC: HISTORY
     AND LITERATURE (2)
     A study and analysis of African-American religious music
     beginning with the work and spiritual songs of slavery and
     continuing to the present. (Must be taken concurrently with
     PAS 331L.)

331L. GOSPEL LABORATORY (1)
     Study and rehearsal techniques of gospel music, hymns,
     spirituals, and anthems. Designed as a laboratory experience
     for gospel musicians, choir directors as well as singers.
     (Must be taken concurrently with PAS 331.)

332. AFRICAN-AMERICAN MUSIC I (3)
     An historical analysis of African-American music, from its
     beginnings in Africa until its flowering in New Orleans.

333. COLTRANE (3)
     An analysis of styles and the evolution of the spiritual
     eminence of his works of art. The outgrowth of new forms
     and the influence of AVANT-GARDE music as it gradually
     transforms into NEO-CLASSICISM.

337. BLACK IMAGES ON THE SILVER SCREEN (3)
     Prerequisite: Completion of the lower-division writing
     requirement. An in-depth exploration of the history and
     criticism of the Black image on the American screen and the
     social and political background from which the African-
     American image has developed. Technical (how a film is
     composed) and critical (the meaning that can be drawn from
     those compositions) perspectives will be emphasized.
     (Available for General Education, Applied Arts and
     Sciences.)

344. LITERATURE OF THE CARIBBEAN AND AFRICAN
     EXPERIENCE (3)
     Completion of the lower division writing requirement. This
     course examines the literatures of people in Africa and the
     Caribbean. It establishes the theoretical, historical, cultural
     and imagistic framework within which that literature
     operates. An analysis is also undertaken of the literatures
     thematically with respect to both their comparative
     experiences and their specifically different backgrounds.
     (Available for General Education, Humanities.)

345. AFRICAN-AMERICAN AUTOBIOGRAPHY (3)
     An analysis of the thematic patterns in autobiographies
     from the slave narrative through the present, focusing on
     the continuity of the African-American experiences from a
     psychological, sociological and historical point of view.

346. CONTEMPORARY BLACK FEMALE WRITERS (3)
     Prerequisites: PAS 155, CH S 155, or ENGL 155 and
     completion of the lower division writing requirement.
     Study of selected works by contemporary Black women
     writers, including Alice Walker, Toni Morrison, Ntozake
     Shange, and Maya Angelou. Themes explored include
     correcting the images, movement from masking to self-
     revelation, male-female relationships, and search for
     wholeness. (Available for General Education, Humanities.)

350. ADVANCED WRITING (3)
     Prerequisite: Completion of the lower division writing
     requirement. An advanced course emphasizing alternative
     strategies in expository writing skills development. Its focus
     is on such purposeful forms of discourse as reports, the
     research paper, critiques, the essay examination, and
     selected forms of correspondence. A cursory review of
     grammar, mechanics and syntax will be offered as needed.
     More intensive review of such basics will be available in the
     Writing Center on an individualized basis. This course,
     though equivalent to, is not a substitute for English 305 or
355. BLACK WORLD NEWS PRACTICUM (3)
Prerequisite: Completion of the lower-division writing requirement. Supervised work on a newsletter published three times a semester. Students work as writer reporters, photographers and editors. Includes analysis of Black urban press and Black college newspapers.

361. AFRICAN-AMERICAN POLITICS (3)
Prerequisite: Completion of the lower-division writing requirement. An upper division introduction to the politics of the African-American, including political socialization, voting, interest groups, political parties and the political behavior within the sub-cultural context. (Available for General Education, Social Sciences.)

364. POLITICS OF NON-VIOLENT DIRECT ACTION (3)
An examination of the theory and practice of non-violent direct action. The theoretical perspective as well as the practical applications as implemented by William Whipple, Gandhi, Albert Luthuli, Martin Luther King, Jr., and others will be examined.

366. COLONIALISM IN AFRICA (3)
Prerequisite: Completion of the lower-division writing requirement. A comprehensive overview of the motives of the European colonizers of Africa and the methods which they used in their colonial pursuits. The consequences of the colonization of Africa and the slave trade. The African liberation movements. Case studies of colonialism in specific regions and/or specific countries. (Available for General Education, Comparative Cultural Studies.)

376. AFRICAN ENSLAVEMENT IN THE NEW WORLD (3)
(Same as HIST 355)
This course is a comparative study of African enslavement in the Caribbean, Latin America and the United States, and it examines various patterns of enslavement in Africa, Brazil, Latin America, the West Indies and North America. The course includes the examination of the Transatlantic Slave Trade, and the origins of New World enslavement. The course also explores the different approaches to abolition and the nature of emancipation (freedom in the New World).

382. TRADITIONAL RELIGIONS OF AFRICA (3)
Prerequisite: Completion of the lower-division writing requirement. A comprehensive overview of the religious concepts, beliefs and practices of the Africans in their traditional socio-cultural milieu, including the interaction of the traditional African religions, Christianity and Islam. Case studies of the religions of selected African ethnic groups. (Available for General Education, Humanities.)

386. AFRICAN-AMERICAN PHILOSOPHICAL THOUGHT (3)
A survival study of African-American philosophies. The course will include an analysis of selected traditional western philosophies and their relevance to the Black experience.

391. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION (ELEMENTARY) (3)
An overview of the development of African-American children from preschool to adolescence. The course will explore psychological perspectives on learning, development, and instruction. Forty hours of field work required. (Not applicable for any credential program.)

392. SOCIOLOGICAL FOUNDATIONS OF EDUCATION (ELEMENTARY) (3)
An introduction to the social and philosophical foundations of elementary education. Analysis of various proposals regarding the purpose, structure, and conduct of elementary education. Emphasis on the African-American child as her/his particular situation differs from other ethnic and racial groups. Course includes a minimum of thirty hours of field activities. (Not applicable for any credential program.)

392A-Z. FIELD WORK IN THE AFRICAN-AMERICAN COMMUNITY (3)
A course designed to give the student a working knowledge of the African-American community, including its culture, its problems, and the current efforts to solve problems in the community.

395. BILINGUALISM IN THE AFRICAN-AMERICAN COMMUNITY (3)
Prerequisite: Completion of the lower division writing requirement. Explores the genesis of African-American linguistic patterns with a focus on acquisition of Ebonics as a socio-cultural linguistic phenomenon. (Available for Section C of the Multicultural Requirement for Credential Candidates.)

397. EDUCATIONAL SYSTEMS OF AFRICA (3)
An analysis, a discussion and an evaluation of the educational goals and practices of selected representative nations in Sub-Saharan Africa. A consideration of the problems related to the role of education as a vehicle for the social, economic and political transformation of the developing African states.

420. THE BLACK CHILD (3)
Prerequisite: Completion of the lower division writing requirement. An exploration of African-American childhood socialization dynamics through an examination of the forces of constraint and development. Theories of social development and achievement are examined. (Available for General Education, Comparative Cultural Studies.)

421. STRATEGIES FOR BLACK CHILD DEVELOPMENT (3)
Prerequisites: PAS 420 or 322. An application of the sociology of development as a conceptual framework for African-American development. Strategies of Black community services for the Black child are studied. Theoretical guidelines for program planning are explored. In addition, basic professional skills for community work are reviewed.

447. AFRICAN-AMERICAN THEATRE (3)
A critical analysis of the African-American Theatre as an art form and as a vehicle of change. This course covers the history and function of the African-American Theatre and many other aspects of theatre art, from playwriting to basic acting exercises. Often, a play is produced.

451. MASS COMMUNICATION IN THE AFRICAN-AMERICAN COMMUNITY (3)
Prerequisite: A grade of B or better in PAS 151 or permission of instructor. An historical analysis of the role played by the mass media in the Afro-American community from slavery to contemporary times. Particular attention will be given to evaluating the African-American press.

465. PAN-AFRICANISM: DEVELOPMENT OF AN IDEOLOGY 1865-1954 (3)
This course takes an in-depth look at the theoretical nexus that spawned anti-colonialism and African independence from the mid-nineteenth century to the present.

484. AFRO-AMERICAN BELIEF & WESTERN CHRISTIANITY (3)
Prerequisite: PAS 282, or 382, or RS 100, or 200, or 210, or consent of instructor. An examination of the major tenets of Black-American folk belief systems/theology and the major...
strands (“Liberal” & “Conservative”) of Western Christian thought, together with a comparison of the images and ideas of each.

486SOC. SOCIAL SCIENCE CAREER INTERNSHIP (3)
(Same as Geography, History, Political Science, Psychology, and Sociology.) Prerequisites: Upper division standing in a social or behavioral science major, appropriate methods course as specified by the department, and consent of the instructor. Social and behavioral science principles will be applied to the work place. At least nine hours per week of supervised fieldwork is required. Students will complete learning contracts and submit written reports related to their internships. (See section on Academic Internships.)

487. PAN-AFRICAN PHILOSOPHICAL THOUGHT (3)
A study of the attitudes between Africans across tribal, national, socio-cultural, linguistic and other lines. An explication of the economic, social, and political aspirations of people of African descent from c. 1400 A.D. to the present, including the doctrine of their universal brotherhood and common destiny.

496A-Z. EXPERIMENTAL COURSES IN PAN-AFRICAN STUDIES (3)
Experimental courses in Pan-African Studies with course content to be determined.

498. PROSEMINAR IN PAN-AFRICAN STUDIES (3)
This course is primarily restricted to students majoring in Pan-African Studies, but it is open to other interested students with the permission of the instructor. This course is the capstone course for the PAS major and will usually be taken during the final semester before baccalaureate graduation. It will focus on a synthesis of the information, concepts, material, and methodologies provided in the previous PAS classes, and it will provide students with intensive practice in utilizing that data in theoretical analysis and other evaluative activities.

499. INDEPENDENT STUDY (1-3)

GRADUATE COURSES
(The following courses are available for students in the Interdisciplinary Masters Program.)

595A. ADVANCED AFRO-AMERICAN WORLD EXPERIENCE (3)
Prerequisite: Senior level standing or graduate student standing. This course is a seminar in the global dimensions of the Afro-American experience. It focuses on a knowledge of the African continent and on the intellectual linkages between Afro-Americans and Africa.

595B. AFRO-AMERICAN HISTORY SEMINAR (3)
Prerequisite: Senior level standing or graduate student standing. This course is a seminar in exploring and analyzing the African diaspora from the writings of great political, historical and literary thinkers. The class covers several dimensions of intensive analysis and evaluation of such work. Student research papers from this class should be publishable.

600. SEMINAR IN PAN AFRICAN RESEARCH METHODOLOGIES (3)
Prerequisite: Classified graduate status. This course provides students with a thorough, intensive exploration of current theories and methodological techniques relevant to serious research on the African Diasporan World. Students will analyze previous research, do their own projects, and participate in group discussion regarding research issues.

601. SEMINAR IN APPLIED PUBLIC POLICY ISSUES & THE BLACK URBAN EXPERIENCE (3)
Prerequisite: Classified graduate status. This is a course in applied comparative public policy analysis and its consequences. The course will look at selected urban environments in the U.S., in South America and the Caribbean, and in continental Africa in terms of the urban Black population in those areas. How are public policy decisions which impact those populations made? Who makes them? How and to what degree do those decisions affect the political and economic well-being of those populations?

602. SPECIAL TOPICS IN BLACK AESTHETICS & BLACK POLITICAL ECONOMY (3)
Prerequisite: Classified graduate status. This is a course in research and theoretical/paradigmatic analysis designed for students to prepare serious scholarly papers to present at conferences and academic meetings, and/or to submit for academic publication.

A. Reading the African Novel
   Reading the African Drama
   An Analytical Compendium of African American Fiction During the 20th Century
   African American Drama Since 1950

B. African Independence: An analysis After 45 Years
   Africentrism and the New World Order
   Pan Africanism in the 21st Century

C. The Political Economy of Underdevelopment in the Diaspora
   The Political Economy of Law and Blacks in the Diaspora
   The Political Economy of Blacks in the Electoral Process
PHILOSOPHY
Chair: Ronald McIntyre

COLLEGE OF HUMANITIES
Department Office: Sierra Tower, Room 522
Phone: (818) 677-2757 FAX: (818) 677-5687
Secretary: Linda Carlson

FACULTY: Charles Crittenden, William Forthman, Jacob Hale, James Kellenberger, Frank McGuinness, Ronald McIntyre (Chair), Bonnie Paller, Richard Rodewald, Jeffrey Sicha, Cindy Stern, James Tomberlin, Takashi Yagisawa

EMERITUS FACULTY: Narayan Champawat, Donald Salter, Daniel Sedey

ACADEMIC ADVISOR: Bonnie Paller

ACADEMIC ADVISEMENT: The Academic Advisor helps students select the program and courses that best satisfy their individual needs and interests, and the advisor reviews students’ progress to insure that the requirements of a major or minor in philosophy are fulfilled. Students choosing the Optional Major in philosophy are especially urged to consult the Academic Advisor in order to plan a sequence of courses suited to their intellectual interests and goals.

THE MAJOR: The characteristic activity of philosophy, from its beginning to the present day, has been reasoned reflection about ourselves, our world, the good life, and our relations with one another. Philosophy deals with issues of fundamental human importance: e.g., the scope and limits of human knowledge, the nature of reality and truth, what it means to be a person, the relation of mind to body, the sources of value and obligation, the evaluation of social institutions and practices, and the nature of logic and correct reasoning. The philosophy major is designed to acquaint students with the distinctive nature of philosophical activity and to help them think critically about such matters of fundamental philosophical concern.

CAREERS: Teaching at a university or college is the long-term career goal of most students who wish to pursue philosophy as a profession, and the skills and training one receives as a philosophy student are valuable in many other careers as well. A degree in philosophy can be evidence to prospective employers that one is capable of creative and analytic thinking and is proficient in reasoning, problem-solving, and written and verbal communication. Philosophy students have successfully transferred their philosophic backgrounds and skills to many fields, including business, law, politics, theology, secondary education, social work and counseling, the health professions, computer technology, journalism, editing and publishing, and government service. A major or minor in philosophy can be especially useful to students seeking entry into professional programs in these areas and many others. (Philosophy majors tend to do well on such pre-professional tests as the Graduate Record Exam and the Law School Admissions Test.) The study of philosophy can also be intensely satisfying for its own sake: it enhances one's ability to enjoy and pursue a lifetime of learning, self-expression, and exchange and debate of ideas concerning ourselves and the meaning of our existence.

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REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

STANDARD MAJOR (39-40 UNITS)
The Standard Major includes the following basic and advanced programs.

BASIC PROGRAM (18-19 UNITS)
1. Choose one of the following courses:
   PHIL 201 Reasoning in the Sciences ..................3
   PHIL 230 Symbolic Logic I.............................4
2. PHIL 201 Ancient Philosophy .........................3
   PHIL 202 Modern Philosophy ............................
   PHIL 350 Epistemology & Metaphysics ...............3
   PHIL 355 Philosophy of Mind & Metaphysics ..........3
   PHIL 360 Ethical Theory ................................

ADVANCED PROGRAM (21 UNITS)
   PHIL 497 Senior Research Seminar ....................3
Choose two of the following four areas of concentration:
A. LOGIC AND PHILOSOPHY OF SCIENCE
   Choose three of the following courses:
   PHIL 330 Philosophy of Science .......................3
   PHIL 331 Symbolic Logic II .............................
   PHIL 431 Philosophical Topics in Logic .............3
   PHIL 445 Philosophy of Language .....................3
   PHIL 495 Advanced Philosophy of the Sciences ....3

B. HISTORY OF PHILOSOPHY
   PHIL 401 Advanced Ancient Philosophy .............3
   PHIL 402 Advanced Modern Philosophy ..............3
Choose one of the following courses:
   PHIL 403 Contemporary Philosophy ....................3
   PHIL 439 Phenomenology 2................................3

C. VALUE THEORY
   PHIL 460 Ethical Theory ..............................3
Choose two of the following courses:
   PHIL 390 Philosophy of Law ................................3
   PHIL 446 Advanced Social & Political Philosophy ..3
   PHIL 480 Aesthetics .......................................3

D. EPistemology AND Metaphysics
   PHIL 450 Advanced Epistemology & Metaphysics .....3
Choose two of the following courses:
   PHIL 439 Phenomenology 2.............................3
   PHIL 445 Philosophy of Language ........................3
   PHIL 455 Advanced Philosophy of Mind & Metaphysics ....3
   PHIL 495 Advanced Philosophy of the Sciences 2 ....3

TOTAL UNITS IN STANDARD MAJOR (39-40 UNITS)

GENERAL EDUCATION (49 UNITS)
Completing the Standard major also completes 3 units in Section A.2 of General Education.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (35 TO 36 UNITS)

TOTAL UNITS REQUIRED FOR THE DEGREE: 124.

OPTIONAL MAJOR (45-46 UNITS)
The Optional Major permits interdisciplinary study in the advanced program. In addition to the course requirements stated below, there are three requirements of the Optional Major: (1) the submission (normally in the semester before the student begins taking courses in the advanced program) of a proposal for the advanced program which includes a list of courses and a statement of objectives; (2) the evaluation and approval of the proposed advanced program by an
evaluation committee of two faculty members; (3) the Department Chair's approval of the proposed advanced program. The student should develop the proposal in consultation with the Academic Advisor and the faculty evaluation committee. Upon acceptance of the program, the proposal is placed in the student's file. Changes in the advanced program can be made only with the approval of the student's evaluation committee and the Department Chair.

The Optional Major includes the following basic program and advanced program.

**BASIC PROGRAM (18-19 UNITS)**

1. Choose one of the following courses:
   - PHIL 100 General Logic ..................4
   - PHIL 210 Reasoning in the Sciences ......3
   - PHIL 230 Symbolic Logic I .............3

2. PHIL 201 Ancient Philosophy .............3
   - PHIL 202 Modern Philosophy .............3
   - PHIL 350 Epistemology & Metaphysics ........3
   - PHIL 355 Philosophy of Mind & Metaphysics ........3
   - PHIL 360 Ethical Theory ...............3

**ADVANCED PROGRAM (27 UNITS)**

An approved program of related courses consisting of:

1. Nine (9) units in 400-level philosophy courses (normally other than PHIL 499)
2. Fifteen (15) additional units in philosophy and/or related subjects
3. Three (3) additional units in Senior Research Seminar (PHIL 497)

**TOTAL UNITS IN OPTIONAL MAJOR (45-46)**

**GENERAL EDUCATION (49 UNITS)**

Completing the Optional Major also completes 3 units in Section A.2 of General Education. (Courses in the advanced program that are chosen from departments other than philosophy sometimes satisfy further General Education requirements. Students should consult the Academic Advisor.)

**TITLE 5 (6 UNITS)**

**ADDITIONAL UNITS (29 TO 30 UNITS)**

**TOTAL UNITS REQUIRED FOR THE DEGREE: 124**

**MINORS IN PHILOSOPHY**

**MINOR I (21-22 UNITS)**

This minor is a traditional minor in philosophy. It includes the following basic and advanced programs.

**BASIC PROGRAM (12-13 UNITS)**

1. Choose one of the following courses:
   - PHIL 100 General Logic ..................4
   - PHIL 210 Reasoning in the Sciences ......3
   - PHIL 230 Symbolic Logic I .............3

2. Choose one of the following courses:
   - PHIL 201 Ancient Philosophy .............3
   - PHIL 202 Modern Philosophy .............3

3. Choose one of the following courses:
   - PHIL 350 Epistemology & Metaphysics ........3
   - PHIL 355 Philosophy of Mind & Metaphysics ........3

4. PHIL 360 Ethical Theory ...............3

**ADVANCED PROGRAM (9 UNITS)**

Three additional philosophy courses, other than 499, at least two of which are upper-division courses.

**TOTAL UNITS IN MINOR I (21-22 UNITS)**

**MINOR II (22 UNITS)**

This minor is designed primarily for students interested in computer science, mathematics, linguistics, psychology, and other areas in the natural or social sciences, but it is not restricted to these majors. It includes the following basic and advanced programs.

**BASIC PROGRAM (10 UNITS)**

Choose one of the following courses:

- PHIL 210 Reasoning in the Sciences ........3
- PHIL 230 Symbolic Logic I .............4

**ADVANCED PROGRAM (12 UNITS)**

Choose one of the following courses:

- PHIL 330 Philosophy of Science .............3
- PHIL 350 Epistemology & Metaphysics ........3
- PHIL 355 Philosophy of Mind & Metaphysics ........3

**TOTAL UNITS IN MINOR II (22 UNITS)**

**COURSE LIST**

**LOWER DIVISION**

**100. GENERAL LOGIC (4)**

Prerequisite: Completion of GE Section A.1 (Composition) and either GE Section A.3 (Math) or MATH 210. A study of deductive and inductive inferences. Attention to formal and informal fallacies and the relations of logic and language. Emphasis on critical thinking and the attainment of skill in it. Not open to students who have completed Philosophy 200. (Available for General Education, Basic Subjects.)

**150. INTRODUCTION TO PHILOSOPHICAL THOUGHT (3)**

An introduction to philosophy emphasizing the concepts of knowledge, reality and mind with attention to such topics as skepticism, dogmatism, common sense, materialism, mind-body dualism, the existence of God and free will. (Available for General Education, Humanities.)

**160. INTRODUCTION TO PHILOSOPHY: SOCIETY AND VALUES (3)**

Philosophy 150 is not a prerequisite. An introduction to philosophy emphasizing questions concerned with evaluations of human conduct, social institutions, and works of art. (Available for General Education, Humanities.)

**165. TODAY’S MORAL ISSUES (3)**

Prerequisite: EPT score of 151 or higher, or EPT and a credit in 098. A philosophical examination of a range of today’s moral issues, such as, abortion, euthanasia, physician-assisted suicide, the environment, war, and world hunger. (Available for General Education Section E, Applied Arts and Sciences.)

**200. CRITICAL REASONING (3)**

Prerequisite: Completion of GE Section A.1 (Composition) and either GE Section A.3 (Math) or MATH 210. Examination of the relationship between logic and language. An accelerated introduction to the concepts essential to the identification, analysis and evaluation of arguments, with attention to deduction, induction and common fallacies. Emphasis on the application of these concepts. Not open to
2000-2002 PHILOSOPHY 473

313. PHILOSOPHY IN LITERATURE (3)
Prerequisite: Completion of the lower-division writing requirement. A study of philosophical ideas and problems as expressed in works of literature. Regular written assignments will be required.

318. AMERICAN PHILOSOPHY (3)
Prerequisites: Completion of the lower-division writing requirement and 3 units of philosophy. A study of the dominant movements in American thought, from the Puritans to the early 20th century: the Colonial Period (Jonathan Edwards), the Enlightenment (Thomas Jefferson), the Transcendentalists (Emerson and Thoreau), the Pragmatists (Peirce and William James), and idealistic and other early 20th-century movements (Royce, Dewey). Attention to issues such as freedom, persons and nature, and science and values. Regular written assignments will be required.

330. PHILOSOPHY OF SCIENCE (3)
Prerequisite: Completion of the lower-division writing requirement. An analysis of the concepts reality, knowledge, mind and theory which attempts to answer the question: What is the character of the scientific picture of human beings and nature? (Available for General Education, Humanities.)

331. SYMBOLIC LOGIC II (3)
Prerequisite: Philosophy 230. Continuation of Philosophy 230. Preliminary examination of various extensions of classical formal systems such as theory of identity, theory of descriptions and modal logic, and an introduction to the methods of appraising formal systems (consistency and semantic completeness). (Available for General Education, Basic Subjects.)

338. PHILOSOPHY OF RELIGION (3)
Prerequisite: Completion of the lower-division writing requirement. An examination of the conceptual problems religious claims pose and arguments regarding knowledge of God, evil, miracles, death and survival, religious experience, religion and morals, faith and reason. Regular written assignments will be required.

339. PHILOSOPHICAL ISSUES IN RELIGION (3)
Prerequisite: Completion of the lower-division writing requirement. A philosophical examination of issues relating to religion, for instance, whether religion requires belief, how drugs relate to religious experience, the nature of mysticism, and the relation between religion and ethics.

341. KIERKEGAARD AND NIETZSCHE (3)
Prerequisite: Completion of the lower-division writing requirement. An examination of some of the main issues in the thought of Kierkegaard and the thought of Nietzsche, such as subjective and objective truth, the logic of faith, the category of transvaluation and the death of God.

342. EXISTENTIALISM (3)
Prerequisites: Completion of the lower-division writing requirement and 3 units of philosophy. A study of some representative works of the major existentialists, with the aim of discovering the fundamental tenets of existentialism. Emphasis will be placed on existentialism’s influence on and relevance to contemporary thought. Regular written assignments will be required.

343. INDIAN PHILOSOPHY (3)
Prerequisite: Completion of the lower-division writing requirement. A survey of Indian philosophy from the Vedic period to the modern era with attention to relationships...
between India’s philosophies, history and culture. (Available for General Education, Comparative Cultural Studies.)

344. CHINESE PHILOSOPHY (3)
Prerequisite: Completion of the lower-division writing requirement. A survey of Chinese philosophy from Confucius to the People’s Republic with attention to relationships between China’s philosophies, history and culture. Regular written assignments will be required. (Available for General Education, Comparative Cultural Studies.)

345. SOCIAL AND POLITICAL PHILOSOPHY (3)
Prerequisite: Completion of the lower-division writing requirement. Philosophic examination of the concepts, arguments, and theories connected with the evaluation of such social policies and political institutions as democracy, free speech, free markets, and equal opportunity. Regular written assignments will be required. (Available for General Education, Humanities.)

348. PHILOSOPHY AND FEMINISM (3)
Prerequisite: Completion of the lower-division writing requirement. A philosophical analysis of the concept woman in contemporary U.S. culture, and other central concepts in feminist thought; for example, the nature of oppression, equality and justice, and relationships between sex, gender, and sexuality. A critical study of philosophical issues in feminism. Regular written assignments will be required. (Available for General Education, Comparative Cultural Studies.)

350. EPISTEMOLOGY AND METAPHYSICS (3)
Prerequisite: 3 units of philosophy. An examination of traditional epistemological problems, with attention to major positions such as empiricism and rationalism and to related metaphysical topics such as causality, space and time, substance, possible worlds.

355. PHILOSOPHY OF MIND AND METAPHYSICS (3)
Prerequisite: 3 units of philosophy. An examination of traditional views concerning the mental, with attention to the mind-body problem and related metaphysical topics such as substance, representation, intentionality, sensibility vs. the understanding.

360. ETHICAL THEORY (3)
Prerequisites: Completion of the lower-division writing requirement and 3 units of philosophy. A study of ethics surveying main theoretical approaches. Covers such topics as ethical relativism, egoism, utilitarianism, justice and moral responsibility. Regular written assignments will be required.

390. PHILOSOPHY OF LAW (3)
Prerequisite: Completion of the lower-division writing requirement. Philosophical questions arising from the analysis and evaluation of concepts and theories connected with law: law and morality, justice, freedom and responsibility, and the nature of judicial reasoning. Regular written assignments will be required.

396A-Z. SELECTED TOPICS IN PHILOSOPHY (3-4)
Selected topics in philosophy with course content to be determined.

401. ADVANCED ANCIENT PHILOSOPHY (3)
Prerequisites: 9 units of philosophy including Philosophy 201. A study in detail of selected works of some major Ancient philosophers, with an emphasis on Plato or Aristotle.

402. ADVANCED MODERN PHILOSOPHY (3)
Prerequisites: 9 units of philosophy including Philosophy 202. A study in detail of selected works of some major philosophers in the period beginning with Descartes and ending with John Stuart Mill.

403. CONTEMPORARY PHILOSOPHY (3)
Prerequisites: Completion of the lower-division writing requirement and 9 units of philosophy including at least one of Philosophy 350 or 355 or 360. Examination of selected contemporary philosophical writings. Regular written assignments will be required.

431. PHILOSOPHICAL TOPICS IN LOGIC (3)
Prerequisite: Philosophy 230. An examination of philosophical issues in logic, such as the nature of and choices between logical systems and the relation of logic to traditional philosophical issues.

439. PHENOMENOLOGY (3)
Prerequisites: 6 units of philosophy including at least one of Philosophy 202 or 350 or 355. A study of the concepts, methods, and issues that characterize phenomenology; its background; its relation to other philosophical traditions; and its extra-philosophical significance (e.g., for psychology and the social sciences). The course will usually focus on one or two of the following philosophers: Husserl, Heidegger, Merleau-Ponty, Sartre.

445. PHILOSOPHY OF LANGUAGE (3)
Prerequisites: 6 units of philosophy. An examination of selected topics that arise from a consideration of the nature of language, e.g., meaning and use, sense and reference, linguistic rules, types of definition, etc.

446. ADVANCED SOCIAL AND POLITICAL PHILOSOPHY (3)
Prerequisites: 6 units of philosophy including at least one of Philosophy 345 or 360 or 390. An advanced seminar devoted to the philosophical analysis and evaluation of one or more topics concerning society, politics, economics or law (such as justice, equality, liberty, political rights, etc.).

450. ADVANCED EPISTEMOLOGY AND METAPHYSICS (3)
Prerequisites: 9 units of philosophy including Philosophy 350. An advanced study of selected epistemological problems with attention to related metaphysical topics.

455. ADVANCED PHILOSOPHY OF MIND & METAPHYSICS (3)
Prerequisites: Completion of the lower-division writing requirement and 9 units of philosophy including at least one of Philosophy 350 or 355. An advanced study of selected problems concerning the mental with attention to related metaphysical topics.

460. ADVANCED ETHICAL THEORY (3)
Prerequisites: 6 units of philosophy including Philosophy 360. A study of one or more selected topics in ethical theory, e.g., justice and human rights, the justification of punishment, moral responsibility, intrinsic values.

480. AESTHETICS (3)
Prerequisites: 6 units of upper-division philosophy and at least one of Philosophy 201 or 202. An examination of the major issues in philosophical aesthetics such as the concept of beauty, the nature of aesthetic judgments, the work of art and the aesthetic object, and the relation between practical, moral, cognitive, and aesthetic experience.

495. ADVANCED PHILOSOPHY OF THE SCIENCES (3)
Prerequisites: 6 units of philosophy including at least one of Philosophy 330 or 350 or 355. An advanced study of one or more key issues in the philosophy of science such as
explanations, probability, confirmation and induction, laws and theories, causality, physicalism and the unity of science, realism and anti-realism, science vs. non-science, and relations between the physical and social sciences.

496A-Z. SELECTED TOPICS IN PHILOSOPHY (3-4)
Selected topics in philosophy with course content to be determined.

497. SENIOR RESEARCH SEMINAR (3)
Prerequisites: Senior standing and at least 21 units in philosophy courses. Extended research project on a topic of the student’s choice. Collaborative learning is required. Team projects are encouraged. The focus will be on formulating a thesis and pursuing appropriate means of developing it in a research project. Class meetings will focus on research methodologies and on students’ discussion of their projects. Available on a CR/NC basis only.

499. INDEPENDENT STUDY (1-3)
PHYSICAL SCIENCE

COLLEGE OF SCIENCE AND MATHEMATICS

Physical Science courses are interdisciplinary in nature. For more information contact the College of Science and Mathematics at (818) 677-2005.

COURSE LIST

LOWER DIVISION

150. PRINCIPLES OF PHYSICAL SCIENCE (3)
Prerequisite: A qualifying score on the ELM Examination or satisfying the ELM exemption requirement. Significant facts, principles, and laws of physical science that belong in chemistry and physics: atomic theory, chemical and physical properties of matter, the periodic table, chemical bonding and reactivity, motion, forces, energy, atomic energy. Explicit attention to the theory and practical application of the scientific method. Engineering, Mathematics and Science majors should consult with their advisers before enrolling in this course. Three hours of lecture per week. (Available for General Education, Natural Sciences.)

150L. PHYSICAL SCIENCE LABORATORY (1)
Physical Science 150 is a co-requisite or prerequisite. A laboratory course designed to accompany Physical Science 150. Laboratory experiments and a limited number of demonstrations will be performed that will allow students to visualize and apply basic concepts in physics and chemistry. Students will acquire basic problem solving and laboratory skills. Class meets for one three-hour laboratory session per week. This course may be used to satisfy the laboratory requirement in Natural Sciences General Education, provided Physical Science 150 has been completed. No credit for science or engineering majors.

170. INTRODUCTION TO PHYSICAL SCIENCE (4)
(Formerly 196)
Prerequisite: A qualifying score on the ELM Examination or satisfaction of the ELM exemption requirement. A survey of the nature, modes of production, and limits of scientific knowledge, and the major discoveries of chemistry and physics, including: atomic and kinetic molecular theory, chemical and physical properties of matter, chemical bonding and reactivity, motion, forces, energy, and nuclear phenomena. Four hours of classroom activity per week, plus outside investigative assignments. Not open for credit to students who have successfully completed Physical Science 150 or Physical Science 196.
PHYSICS AND ASTRONOMY

Chair: Dr. Adrian Herzog

College of Science and Mathematics
Department Office: Science 1130
Phone: (818) 677-2775
E-mail: physics@galileo.csun.edu
Internet: http://davinci.csun.edu/
Secretary: Linda Gharakhian

Faculty: Barney Bales, Julio Blanco, Ana Cristina Cadavid, Gary Chapman, Peter Collas, Duane Doty, Adrian Herzog (Chair), Donald Jacobs, Nicholas Kioussis, Paul Lee, Say-Peng Lim, Robert Park, Matthew Penn, Miroslav Peric, Radha Ranganathan, Robert Romagnoli, Ryoichi Seki, Stephen Walton, Ruqian Wu

Emeritus Faculty: Paul Chow, John Lawrence, Bela Lengyel, Mortimer Moore, Giovan Natale, Roy Olson, Paul Richter, Harbhajan Sandhu

Adjunct Professors: Richard Cohen, Armen Kocharian, Alexander Ruzmaikin

Undergraduate Adviser: Blanco

Credential Adviser: Cadavid

Degrees Offered: B.A. in Biomedical Physics; B.S. and M.S. in Physics. B.S. Physics Options: I. Physics, II. Applied Physics, III. Mathematical Physics, IV. Astrophysics.

Also offered: A minor in Physics.

CREDENTIAL INFORMATION: Students planning a career in secondary teaching are required to obtain a teaching credential in addition to the baccalaureate degree. The additional requirements for obtaining the credential are listed in the Credentials Section of this Catalog. While all options available for obtaining a degree in Physics may be used, Option I of the BS degree is closest to the State approved subject matter program for the Science Credential with Physics Concentration. Students interested in a career in science teaching should consult with the Department’s undergraduate and credential adviser.

Academic Advisement: All physics majors should consult their faculty adviser each semester before registering.

The Major: Quarks, black holes, and chaos systems—discoveries like these make front-page news as physicists continue to learn about the fundamental structure of the universe. Studying how matter and energy behave, beginning physics majors and senior physicists alike find challenge and excitement in solving problems and discovering new concepts.

Physicists in business and industry work with revolutionary technology such as lasers, superconductors, and modern electronic and optical devices. Jobs in these fields are often in high demand and pay well.

Perhaps the most fundamental of all sciences, physics provides a background for understanding other scientific disciplines as well as many aspects of everyday life. Physics principles are crucial to such diverse applications as home electrical wiring, the motion of a rocket or skydiver, solar energy, and an echocardiogram of the human heart. Thus, understanding physics helps us make sense of our world.

Learning Outcomes: Graduates of the Department of Physics and Astronomy should demonstrate problem-solving skills at both the upper and lower division course levels. Graduates should demonstrate both computer and research laboratory skills commensurate with a degree in Physics or Astronomy. Graduates should demonstrate knowledge of current topics. Graduates should be prepared to either continue on into graduate school, or be competent to work in a technologically demanding position.

Careers: Many students go on to advanced degrees in physics or related fields. The department’s majors have been accepted by the nation’s best graduate schools, such as Cornell, Stanford, CalTech, and Berkeley. Other students go to work immediately. Graduates fill a variety of scientific and technical positions in business and industry, including research scientist, technical staff member or manager, technical salesperson, or business owner. Others teach in high schools, community colleges, or universities; some become medical physicists or physicians.

Department Programs: The BS degree in Physics is designed for students who desire to (1) pursue a career in physics related research and development in government or industry, (2) prepare for graduate work in physics or related subjects or (3) prepare for secondary school teaching. Option I is a balanced program in experimental and theoretical physics. Option II emphasizes engineering applications of Physics. Option III emphasizes a stronger mathematical background in Physics. Option IV emphasizes applications of physics to astrophysical problems.

The BA degree program in Biomedical Physics is an interdisciplinary program combining biology, chemistry and physics and applying the principles of physics to problems in biology and medicine. It is designed for students who desire to pursue a career in biomedical technology, medicine and related fields. Supplementary courses may be required for entry into some graduate programs and career options, and students should plan a program of studies in consultation with their academic adviser.

The minor in Physics is available for students who wish to augment their primary major field.

The purpose of the Graduate Program is to provide the students with an opportunity for advanced study in Physics and to develop skills to do independent research.

General Education: Knowledge of a foreign language is viewed as an asset by many potential employers and may be required for graduate study in Physics. Students are encouraged to study at least one foreign language. Three units of foreign language study may be applied to General Education, Section F, Comparative Cultural Studies.

Requirements for Bachelor of Science Degree in Physics

To enroll in the first courses in Mathematics and Chemistry the student must obtain a satisfactory score on the Mathematics Placement Test and the Chemistry Placement Test. Without satisfactory scores the student may be required to take additional courses in preparation for the required courses.

The student must complete all courses listed in the Lower Division Core as well as those listed under one of the major options.

Lower Division Core (33 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150A</td>
<td>Mathematical Analysis I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 150B</td>
<td>Mathematical Analysis II</td>
<td>5</td>
</tr>
</tbody>
</table>
MATH 250  Mathematical Analysis III ..............................3
PHYS 220A  Mechanics ..................................................3
PHYS 220AL  Mechanics Laboratory .................................3
PHYS 220B  Electricity and Magnetism ..........................3
PHYS 220BL  Electricity and Magnetism Laboratory ..........1
PHYS 220C  Light, Heat, and Sound ................................3
PHYS 220CL  Light, Heat, and Sound Laboratory ..............1
CHEM 101/101L  General Chemistry I and Lab ...............5
COMP 106  Computing in Engineering and Science ....2
COMP 106L  Computing in Engineering and Science Laboratory ........................................1

OPTION I: PHYSICS
This option provides a well-balanced program in both experimental and theoretical Physics leading to a B.S. degree.

LOWER DIVISION REQUIRED COURSES (41 UNITS)
Lower Division Core ..........................................................33
CHEM 102/102L  General Chemistry II and Lab ...............5
MATH 280  Applied Differential Equations ....................3

UPPER DIVISION REQUIRED COURSES (27 UNITS)
PHYS 301  Analytical Mechanics .....................................4
PHYS 311  Electromagnetism  .........................................4
PHYS 362AB  Advanced Measurements ..........................2
PHYS 370  Modern Physics I ...........................................3
PHYS 372  Modern Physics II ..........................................3
PHYS 389  Mathematical Physics I .................................3
PHYS 431  Thermodynamics & Statistical Mechanics 4
PHYS 464  Experimental Physics ....................................4

UPPER DIVISION ELECTIVES (11 UNITS)
Eleven units chosen from the following, at least 6 units of which must be in group A.

A. 400-level physics lecture courses
PHYS 410  Electromagnetic Waves .................................3
PHYS 420  Modern Optics ...............................................3
PHYS 421  Laser Physics .................................................3
PHYS 451  Introduction to Quantum Mechanics ..............3
PHYS 470  Introduction to Nuclear and Elementary Particle Physics ........................................3
PHYS 480  Solid State Physics ...........................................3
PHYS 489  Mathematical Physics II ...............................3
PHYS 490  Computer Applications in Physics .................3

B. Other electives
PHYS 464  Experimental Physics ....................................2-6
PHYS 495  Directed Undergraduate Research .................1-3
ASTR 301  The Dynamical Universe .............................3
ASTR 312  Solar System Astrophysics ............................3

TOTAL UNITS IN THE MAJOR, OPTION I (79 UNITS)

GENERAL EDUCATION (39 UNITS)
Subsection A.3, Mathematics, is satisfied by MATH 150A.
Section B, Natural Sciences, is partially satisfied by CHEM 101, 101L, 102, 102L. Section E, Applied Arts and Sciences, is considered met by required courses in the major. ASTR 301 and ASTR 312 are available as electives in the major and also qualify as upper division GE courses in Subsection B.2, Earth Sciences and Astronomy.

TITLE 5 (6 UNITS)
ADDITIONAL UNITS (4 UNITS)
TOTAL UNITS REQUIRED FOR B.S. DEGREE, OPTION I:  128

OPTION II: APPLIED PHYSICS
The option in applied physics leading to a B.S. degree is designed to give the student a strong background in physics with emphasis on engineering applications.

LOWER DIVISION REQUIRED COURSES (40 UNITS)
Lower Division Core ..........................................................33
EE 240/L  Electrical Engineering Fundamentals & Lab ....4
MATH 280  Applied Differential Equations ....................3

UPPER DIVISION REQUIRED COURSES (27 UNITS)
PHYS 301  Analytical Mechanics .....................................4
PHYS 311  Electromagnetism ..........................................4
PHYS 362AB  Advanced Measurements ..........................2
PHYS 370  Modern Physics I ...........................................3
PHYS 372  Modern Physics II ..........................................3
PHYS 389  Mathematical Physics I .................................3
PHYS 431  Thermodynamics & Statistical Mechanics 4
PHYS 464  Experimental Physics ....................................4

UPPER DIVISION ELECTIVES (12 UNITS)
Twelve units chosen from the following, at least 6 units of which must be in group A and at least 3 units of which must be in group B.

A. 400-level physics lecture courses
PHYS 410  Electromagnetic Waves .................................3
PHYS 420  Modern Optics ...............................................3
PHYS 421  Laser Physics .................................................3
PHYS 451  Introduction to Quantum Mechanics ..............3
PHYS 470  Introduction to Nuclear and Elementary Particle Physics ........................................3
PHYS 480  Solid State Physics ...........................................3
PHYS 489  Mathematical Physics II ...............................3
PHYS 490  Computer Applications in Physics .................3

B. Upper division engineering electives
Students should consult with the Physics Undergraduate Advisor for suggestions concerning engineering electives.

C. Other electives
PHYS 464  Experimental Physics ....................................2-4
PHYS 495  Directed Undergraduate Research .................1-3
ASTR 301  The Dynamical Universe .............................3
ASTR 312  Solar System Astrophysics ............................3
ASTR 401  The Radiative Universe ...............................3

TOTAL UNITS IN THE MAJOR, OPTION II (79 UNITS)

GENERAL EDUCATION (40 UNITS)
Subsection A.3, Mathematics, is satisfied by MATH 150A.
Section B, Natural Sciences, is partially satisfied by CHEM 101, 101L. Section E, Applied Arts and Sciences, is considered met by required courses in the major. ASTR 301 or ASTR 312 is available as an elective in the major and also qualifies as an upper division GE course in Subsection B.2, Earth Sciences and Astronomy.

TITLE 5 (6 UNITS)
ADDITIONAL UNITS (3 UNITS)
TOTAL UNITS REQUIRED FOR B.S. DEGREE, OPTION II:  128
OPTION III: MATHEMATICAL PHYSICS

The option in mathematical physics leading to a B.S. degree is designed to give the student a strong background in physics as well as a stronger background in mathematics than is normally available to the student of physics.

LOWER DIVISION REQUIRED COURSES (36 UNITS)

Lower Division Core ..................................................33
or
MATH 280 Applied Differential Equations ......................3
or
MATH 351 Differential Equations ..................................3

UPPER DIVISION REQUIRED COURSES (25 UNITS)

PHYS 301 Analytical Mechanics ..................................4
PHYS 311 Electromagnetism .........................................4
PHYS 362AB Advanced Measurements ...........................2
PHYS 370 Modern Physics I .........................................3
PHYS 372 Modern Physics II ...........................................3
PHYS 389 Mathematical Physics I ..................................3
or
MATH 380 Applied Mathematics ..................................3
PHYS 431 Thermodynamics & Statistical Mechanics .......4
PHYS 464 Experimental Physics ..................................2

UPPER DIVISION ELECTIVES (14 UNITS)

Fourteen units chosen from the following, at least 6 units of which must be in group A.

A. 400-level physics lecture courses

PHYS 410 Electromagnetic Waves ..................................3
PHYS 420 Modern Optics ...........................................3
PHYS 421 Laser Physics .............................................3
PHYS 451 Introduction to Quantum Mechanics .............3
PHYS 470 Introduction to Nuclear and Elementary Particle Physics .....................3
PHYS 480 Solid State Physics ......................................3
PHYS 489 Mathematical Physics II ...............................3
PHYS 490 Computer Applications in Physics .................3

B. Other electives

PHYS 464 Experimental Physics ..................................2-8
PHYS 495 Directed Undergraduate Research ..................1-3
ASTR 301 The Dynamical Universe ............................3
ASTR 312 Solar System Astrophysics .............................3
ASTR 401 The Radiative Universe .................................3
MATH 320 Foundations of Higher Mathematics .............3
MATH 340 Introductory Probability ..............................3
MATH 350 Advanced Calculus I ..................................3
MATH 364 Elementary Modern Algebra .......................3
MATH 364A Mathematical Statistics I ..........................3
MATH 440A Introduction to Statistical Inference ..........3
MATH 450 Advanced Calculus II ..................................3
MATH 455 Complex Variables .................................3
MATH 462 Advanced Linear Algebra ..............................3
MATH 480 Partial Differential Equations .......................3
MATH 481A Numerical Analysis ..................................3
MATH 481B Numerical Analysis .................................3
MATH 482 Combinatorial Algorithms ............................3
MATH 483 Mathematical Modeling ...............................3
or other courses if approved by the Undergraduate Advisor.

TOTAL UNITS IN THE MAJOR, OPTION III (75 UNITS)

GENERAL EDUCATION (40 UNITS)

Subsection A.3, Mathematics, is satisfied by MATH 150A. Section B, Natural Sciences, is partially satisfied by CHEM 101, 101L, and ASTR 301. Section E, Applied Arts and Sciences, is considered met by required courses in the major. ASTR 301 and 312 are available as electives in the major and also qualify for upper division GE courses in Subsection B.2, Earth Sciences and Astronomy.

TOTAL UNITS IN THE MAJOR, OPTION IV (78 UNITS)

GENERAL EDUCATION (37 UNITS)

Subsection A.3, Mathematics, is satisfied by MATH 150A. Section B, Natural Sciences, is partially satisfied by CHEM 101, 101L and ASTR 301. Section E, Applied Arts and Sciences, is considered met by required courses in the major. ASTR 312 is available as an elective in the major and also qualifies as an upper division GE course in Subsection B.2, Earth Sciences and Astronomy.

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (7 UNITS)

TOTAL UNITS REQUIRED FOR B.S. DEGREE, OPTION IV: 128

B.S. HONORS PROGRAM

The program leading to a B.S. degree in Physics with Honors provides the opportunity to selected physics majors for intensive study under individual faculty guidance. Admission to the Honors Program is granted by approval of the Undergraduate Advisor and is normally given to
physics majors in any of the four options of the B.S. degree who have completed 90 units of college work with a grade point average of 3.0 overall and in the physics major.

Honors candidates will be required to complete one of the four B.S. options of the physics major and in addition the following course:

PHYS 498 Undergraduate Thesis .........................3

Graduation with Honors in Physics will require the following:

Admission to the Honors Program.

Grade point average of 3.25 for all upper division units required in the Honors Program, consisting of one of the four B.S. options of the physics major plus Physics 498.

Approval by faculty committee of the undergraduate thesis.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN BIOMEDICAL PHYSICS

To enroll in the first courses in Biology, Chemistry, Mathematics, and Physics, the student must meet appropriate prerequisites. See course descriptions for prerequisites.

LOWEST DIVISION REQUIRED COURSES (36 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 106/106L</td>
<td>Biological Principles I and Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 107/107L</td>
<td>Biological Principles II and Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 281/282L</td>
<td>Human Physiology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101/101L</td>
<td>General Chemistry I and Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 102/102L</td>
<td>General Chemistry II and Lab</td>
<td>5</td>
</tr>
<tr>
<td>MATH 255A</td>
<td>Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 255B</td>
<td>Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 100A/100AL</td>
<td>General Physics I and Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 100B/100BL</td>
<td>General Physics II and Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

UPPER DIVISION REQUIRED COURSES (17 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 380/381</td>
<td>Cell Biology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 362AB</td>
<td>Advanced Measurements</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 376</td>
<td>Radiologic Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 405</td>
<td>Biomedical Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 495</td>
<td>Directed Undergraduate Research</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVES (10 UNITS)

Either

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 333</td>
<td>Principles of Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 334</td>
<td>Principles of Organic Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper Division Electives ..............................2

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 235</td>
<td>Introductory Organic Chemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper Division Electives ..............................6

Upper division electives should be selected with advisor approval.

For the B.A. Degree in Biomedical Physics, upper division courses in the major plus upper division courses outside the major must total a minimum of 40 units.

Double Major: Some Students may wish to pursue a double major, graduating with a B.A. Degree in both Biology and Biomedical Physics. For details consult with the Physics undergraduate advisor.

TOTAL UNITS IN THE MAJOR (63 UNITS)

GENERAL EDUCATION (43 UNITS)

Subsection A.3, Mathematics, is satisfied by MATH 255A. Section B, Natural Sciences, is partially satisfied by CHEM 101, 101L, 102, 102L.
TOTAL UNITS REQUIRED FOR THE M.S. DEGREE: 30

COURSE LIST IN ASTRONOMY

UPPER DIVISION

301. THE DYNAMICAL UNIVERSE (3)
Prerequisite: Math 250 and Physics 220A, and completion of the lower-division writing requirement. Applications of Newtonian and relativistic dynamics to astrophysical systems. Planetary and satellite motion, planetary rings, binary and multiple star systems, clusters of stars, dynamics of spiral and elliptical galaxies, missing mass of galaxy clusters, relativistic orbits (Mercury and the binary pulsar), black holes, dynamical fate of the universe. (Available for General Education, Natural Sciences.)

312. SOLAR SYSTEM ASTROPHYSICS (3)
Prerequisite: Physics 220C or 220D, and completion of the lower-division writing requirement. A comprehensive study of the physics of the solar system with emphasis placed upon the results of recent space explorations. Kepler’s laws and planetary motion, solar interior and solar atmosphere, planets and their satellites, minor planets, comets, meteors and the interplanetary medium. (Available for General Education, Natural Sciences.)

352. CURRENT DEVELOPMENTS IN ASTRONOMY (3)
Prerequisite: Astronomy 152 and completion of the lower-division writing requirement. In depth examination and interpretation of astronomical discoveries occurring at the time the course is taught. Reading will include both background material and current periodicals accessible to upper division, General Education students. Likely areas of discussion are spacecraft exploration of the solar system, satellite observations of high energy radiation from space, exotic astronomical objects (e.g., double quasars, black hole candidates) and new cosmological data. (Available for General Education, Natural Sciences.)

401. THE RADIATIVE UNIVERSE (3)
Prerequisite: Physics 220D or 370. Application of the laws of radiation, atomic and subatomic structure to astrophysical systems. Cosmic magnetic fields, and energy sources, analysis of radiation from stars, nebulae, supernova, active galaxies and quasars, the early universe, origin of the elements.

499. INDEPENDENT STUDY (1-3)

COURSE LIST IN PHYSICS

LOWER DIVISION

100A. GENERAL PHYSICS I (3)
Prerequisite: Math 105 or Math 106; or satisfy the ELM requirement and score 22 or higher on the Mathematics Placement Test. An introductory course in physics. The topics covered will be mechanics, heat and sound. Students using this course to satisfy a General Education requirement in Natural Sciences, General Education, provided Physics 100A has been completed.

100AL. GENERAL PHYSICS I LABORATORY (1)
Corequisite: Physics 100A. A 3 hour laboratory per week. This course may be used to satisfy the laboratory requirement in Natural Sciences, General Education, provided Physics 100A is also completed.

100B. GENERAL PHYSICS II (3)
Prerequisite: Physics 100A. A continuation of Physics 100A. The topics covered will be electricity and magnetism, light, and modern physics. (Available for General Education, Natural Sciences.)

100BL. GENERAL PHYSICS II LABORATORY (1)
Corequisite: Physics 100B. One 3 hour laboratory per week.

160. THE PHYSICS OF EXPERIENCE (3)
An inquiry into the fundamental laws governing the structure and behavior of the material universe with particular emphasis upon how these manifest themselves in common experiences such as blue skies, the shape of snow flakes, red sunsets, musical sounds, etc. (Available for General Education, Natural Sciences)

220A. MECHANICS (3)
Corequisite: Mathematics 150B. Dynamics and statics of particles and rigid bodies, harmonic vibrations, and fluid mechanics. (Available for General Education,Natural Sciences.)

220AL. MECHANICS LABORATORY (1)
Corequisite: Physics 220A. One 3-hour laboratory per week. This course may be used to satisfy the laboratory requirement in Natural Sciences, General Education, provided Physics 220A is also completed.
220B. ELECTRICITY AND MAGNETISM (3)
Prerequisite: Physics 220A; corequisite Mathematics 250.
Electric and magnetic fields, circuit theory and electromagnetic induction. (Available for General Education, Natural Sciences.)

220BL. ELECTRICITY AND MAGNETISM LABORATORY (1)
Corequisite: Physics 220B. One 3-hour laboratory per week.

220C. LIGHT, HEAT AND SOUND (3)
Prerequisite: Physics 220B; corequisite Mathematics 280.
Heat, introduction to thermodynamics and kinetic theory, wave motion and sound, geometric and physical optics.

220CL. LIGHT, HEAT AND SOUND LABORATORY (1)
Corequisite: Physics 220C. One 3-hour laboratory per week.

220D. OPTICS AND MODERN PHYSICS (3)

UPPER DIVISION

301. ANALYTICAL MECHANICS (4)
Prerequisites: MATH 280 and PHYS 220C. Dynamics of particles and rigid bodies, the two-body central force problem, Lagrangian formulation, Hamilton’s principle, and inertia tensor.

305. PHYSICS OF MUSIC (3)
Prerequisite: Physics 160 or Physical Science 150 or the equivalent, and completion of the lower-division writing requirement. Covered will be the physics of generation, transmission, and reception of mechanical vibration, characters of musical sounds, room acoustics, musical instruments and the human voice, elementary electricity, magnetism and electronics, sound recording and reproduction. The mathematics employed will be simple algebra as well as logarithms, which will be reviewed. (Available for General Education, Natural Sciences.)

311. ELECTROMAGNETISM (4)
Prerequisite: Physics 389. Electrostatics, magnetostatics, Maxwell’s equations, electromagnetic waves.

362A. ADVANCED MEASUREMENTS (1)
Prerequisite: Physics 220C/CL or PHYS 100B/BL. A laboratory course in digital and analog electronics with applications to physical measurements. One three-hour laboratory per week.

362B. ADVANCED MEASUREMENTS (1)
Prerequisites: Phys 220C/CL, or MATH 255B and PHYS 100B/BL. Experiments in modern and nuclear physics, emphasizing techniques of measurement and statistical data analysis. One three-hour laboratory per week.

370. MODERN PHYSICS I (3)
Prerequisites: Math 280 and Physics 220C. Relativity, particle nature of radiation, wave nature of matter, Schroedinger equation and physical interpretations, one-dimensional problems including energy levels in a potential well and transmission and reflection by a barrier.

372. MODERN PHYSICS II (3)
Prerequisite: Physics 370. Atomic spectroscopy and the Bohr model, Schroedinger theory of the hydrogen atom, selected topics from the quantum theory of atoms, molecules, solids, nuclei, and particles.

376. RADIOLOGIC PHYSICS (4)
Prerequisites: Physics 100A & 100AL, 100B & 100BL or permission of the instructor. A specialized course devoted to the nature and production of x-radiation. Topics covered include the interaction of radiation with matter, attenuation of x-rays and the principles behind radiographic equipment and components.

389. MATHEMATICAL PHYSICS I (3)
Prerequisites: Physics 220C and either Mathematics 280 or Mathematics 351. Vector analysis, linear algebra and matrix theory, Fourier analysis, and physical applications.

405. BIOMEDICAL PHYSICS (4)
Prerequisites: MATH 255A and PHYS 100B. Study of the principles of physics as applied to problems in biology and medicine.

410. ELECTROMAGNETIC WAVES (3)
Prerequisites: Physics 301 and 311. Maxwell’s equations, wave propagation, energy flow, boundary conditions, radiation, and scattering of electromagnetic waves.

420. MODERN OPTICS (3)

421. LASER PHYSICS (3)
Prerequisites: Physics 311 and 370. An introduction to the principles of laser operation, properties of laser beams, laser design considerations, and a survey of typical systems that operate at wavelengths having technical applications.

431. THERMODYNAMICS AND STATISTICAL MECHANICS (4)
Prerequisites: Physics 301 and 370. Laws of thermodynamics, thermodynamic potentials, kinetic theory, phase transitions, equilibrium ensembles and related formalism with applications to classical and quantum systems.

451. INTRODUCTION TO QUANTUM MECHANICS (3)

464A-G. EXPERIMENTAL PHYSICS
Advanced work in experimental physics with individual faculty supervision.

A/AL. Physical Electronics (1/1). Prerequisite: Physics 362AB. One hour lecture, three hours lab per week.

B/BL. Microprocessor Applications in Physics (1/1). Prerequisite: Physics 362A. One hour lecture, three hours lab per week.

C. Modern Optics (2). Prerequisite: Physics 362B. Six hours of supervised experiments per week.

D/DL. Astrophysics (1/1). Prerequisite: Physics 362AB. One hour lecture, three hours lab per week.

E. Microwave and Resonance Techniques (2). Prerequisite: Physics 311 and Physics 362B. Six hours of supervised experiments per week.
F/FL. Nuclear Physics (1/1). Prerequisite: Physics 362B. One hour lecture, three hours lab per week.

G/GL. Nonlinear Physics Computer Lab (1/1). Prerequisites: Physics 301 and 389. A computer-oriented approach to the dynamical systems of classical physics. Use is made of existing software to investigate the behavior of nonlinear and chaotic systems. One hour lecture and three hours of computer lab per week.

470. INTRODUCTION TO NUCLEAR AND ELEMENTARY PARTICLE PHYSICS (3)
Prerequisite: Physics 372. Production, interactions and structure of subatomic particles: Radioactivity, accelerators, detectors, classification of elementary particles, quark model, nuclear properties, nuclear models and nuclear reactions.

480. SOLID STATE PHYSICS (3)
Prerequisite: Physics 311 and 431. Structure of crystals, electron theory of metals, theory of semiconductors, and mechanical, electrical, and magnetic behavior of substances in the solid state.

489. MATHEMATICAL PHYSICS II (3)
Prerequisites: Physics 389 or Mathematics 380. A unified treatment of the linear differential equations of physics with emphasis upon the inter-relation between the purely formal properties and their physical implications. Topics include complex variable theory, differential equations, special functions, Sturm-Liouville theory, and boundary-value problems.

490. COMPUTER APPLICATIONS IN PHYSICS (3)
Prerequisites: Physics 301 and 370, and either Computer Science 106, 106L or Computer Science 101, 105. Applications of numerical analysis and computer programming to the solution of problems in classical and modern physics.

493. PHYSICS AND ASTRONOMY COLLOQUIUM (1)
Prerequisite: Junior or senior standing in Physics. A series of lectures presented weekly by faculty members and invited speakers on topics of current interest in physics, astronomy, and related fields.

495. DIRECTED UNDERGRADUATE RESEARCH (1-3)
Prerequisites: Physics 362AB, and Senior Standing. A program of original, independent research to be carried out under the direction of one of the physics faculty.

496A-Z. EXPERIMENTAL COURSES IN PHYSICS (1-3)
Experimental courses in Physics with course content to be determined.

498. UNDERGRADUATE THESIS (3)
Prerequisite: Admission to Honors Program in Physics.

499. INDEPENDENT STUDY (1-3)
See Independent Study under Courses of Study.

SENIOR OR GRADUATE

589. MATHEMATICAL PHYSICS SEMINAR (L)
Prerequisites: Senior or graduate standing in the Department of Mathematics or the Department of Physics and Astronomy. This seminar course is comprised of a series of weekly lectures in mathematical physics by faculty members and invited speakers. This course is identical to Math 589.

GRADUATE

600. CLASSICAL MECHANICS (4)
Prerequisites: Physics 301, 311, 389. Dynamics, Lagrange’s equations, Hamilton’s principle, rigid bodies, introduction to relativity, Hamiltonian theory, Hamilton-Jacobi method, contact transformations. Poisson brackets, transformation theory, perturbation theory, small vibrations.

601. SELECTED TOPICS IN ASTROPHYSICS (3)

610. ELECTROMAGNETIC THEORY I (4)
Prerequisites: Physics 311 and 489. Advanced theoretical treatment of the electrostatic field with introduction of mathematical techniques. Introduction to electromagnetic waves and radiation from sources.

615. PLASMA PHYSICS (3)
Prerequisites: Physics 301, 311 and 431. The plasma state, motion of isolated charged particles, collisions, plasma statistical mechanics, statistics of collisions, fluid and statistical models, waves in plasmas, instabilities, non-equilibrium statistical mechanics, radiation processes.

620. OPTICS (3)
Prerequisite: Physics 420 or 410. Advanced topics in physical optics - interference and diffraction theory, partial coherence and polarization, conducting thin films, and crystal optics. An introduction to gradient index optics, holography, nonlinear effects and other topics of fundamental or current interest.

630. STATISTICAL PHYSICS (3)
Prerequisites: Physics 431, 451, and 600. Theoretical foundations of thermodynamics and statistical mechanics for equilibrium and non-equilibrium systems. Applications to Bose and Fermi assemblies, real gases, liquids, solids, solutions, phase transitions, and chemical reactions.

640. GENERAL RELATIVITY (3)
Prerequisite: Physics 301, 311, 389. Introduction to the mathematics and physics of curved space-time. Gravitational fields as curvature of space-time. Einstein’s gravitational field equations, solutions and experimental tests. Application to topics of current interest in relativistic astrophysics, particle physics and field theory.

650. QUANTUM MECHANICS I (3)

651. QUANTUM MECHANICS II (3)
Prerequisite: Physics 650. Relativistic wave equations. Advanced scattering theory. Selected topics from quantum theory of atoms and molecules.

680. SOLID STATE PHYSICS I (3)
Prerequisite: Physics 451 or 480. An advanced treatment of condensed matter physics. Topics: crystal structure, cohesive energy, lattice vibrations, Sommerfeld theory of metals, electronic structure theory, and theory of semiconductors.

681. SOLID STATE PHYSICS II (3)
Prerequisite: Physics 480 or 680. An advanced treatment of condensed matter physics. Topics: Magnetic ordering,
beyond the independent electron approximation, optical
processes and excitons, dielectric properties,
superconductivity, defects and surface-interface physics.

690. MATHEMATICAL PHYSICS (3)
Prerequisite: Physics 489. Selected topics in advanced
mathematical physics such as boundary value problems,
Green’s functions, nonlinear dynamics, approximation
methods, numerical analysis, group theory and differential
geometry.

696. DIRECTED GRADUATE RESEARCH (1-3)

697. DIRECTED COMPREHENSIVE STUDIES (3)
Prerequisite: Completion of all courses required in the
program. This course may not be used for credit in the
program itself.

698. THESIS (3-6)
Prerequisite: Classified graduate status, permission of the
department, and consent of an instructor to serve as thesis
adviser. A dissertation of a specialized advanced topic in
physics such as a critical evaluation and extension of an
existing theoretical treatment, the construction and use of
advanced research apparatus, or an original theoretical
analysis.

699. INDEPENDENT STUDY (1-6)
Prerequisites: At least one graduate course in physics and
consent of an instructor. Investigation of a special topic in
physics with emphasis on advanced theoretical or
experimental skills. See Independent Study under Courses
of Study.
POLITICAL SCIENCE
Chair: Stella Theodoulou

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES
Department Office: Sierra Hall 225
Phone: (818) 677-3488
Secretary: Mary Harrigan

FACULTY: Jane Bayes, Matthew Cahn, Warren Campbell, Maria
Rosa Garcia-Acevedo, Mehran Kamrava, Christopher Leu,
Lawrence Litwin, Kit Machado, John Medearis, James
Mitchell, Phillip Present, David Ringsmuth, Ram Roy,
Martin Saiz, Sylvia Snowiss, Stella Theodoulou (Chair)

EMERITUS FACULTY: Morton Auerbach, Dennis Beller, Roger
Carasso, George Brown, John Goldbach, Roger Harrell,
Robert Horn, Lowell Noonan, Eugene Price, Faith Windsor

DESIGNATED UNDERGRADUATE ADVISOR:
Inquire in Department Office for relevant faculty

DESIGNATED GRADUATE ADVISOR:
Inquire in Department Office for relevant faculty

DEGREES OFFERED: B.A., M.A. in Political Science

EXTERNAL DEGREE SPONSORED: M.P.A.

B.A. OPTIONS OFFERED: Option 1 - Politics & Government;
Option 2 - Public Policy & Management

ACADEMIC ADVISEMENT: Students must consult with a faculty
adviser regularly in planning their program and schedule.
Faculty advisers are available during the semester at
regularly scheduled office hours and by appointment.
Students should come to the Department Office for the
scheduled office hours of the faculty.

THE MAJOR: The Department offers a major with two options
(Option 1 - Politics and Government, Option 2 - Public Policy
and Management), and a minor in Political Science, and
participates in undergraduate interdisciplinary programs in
African Studies, Asian Studies, Urban Studies, and Women's
Studies (for descriptions of these programs see: African
The Department of Political Science supports the concept of
international education and encourages students to investigate
opportunities for overseas study. Certain courses taken at CSU
International Program Study Centers in foreign countries are
equivalent to courses in the Department of Political Science and
may be used to fulfill some of the requirements for degree
options offered by the Department and/or certain general
education requirements. Students should consult the International
Programs Bulletin available in the Office of International and
Exchange Programs, a departmental advisor, or the campus
International Programs advisor for more information.

CAREERS: The major in political science is designed for students
who plan a career in public administration, public policy or
government service; seek training for positions in the overseas
agencies of the United States government, international
governmental organizations, or private corporations; intend to
pursue the study of law, or other specialized training at the
graduate level; wish to prepare for teaching in the secondary
schools; intend to work for advanced degrees in political
science in preparation for college teaching.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE MAJOR IN
POLITICAL SCIENCE (48 UNITS)

Option 1: Politics and Government
This option offers a variety of courses in domestic and global
politics and policy. The curriculum may be selected by
students who (a) wish a liberal arts education, or (b) who
desire to pursue graduate education in political science or
other fields, such as law or (c) who wish to enter government
or (d) who intend to teach in secondary schools.

BASIC REQUIREMENTS (12 UNITS)

POLS 372 Principles & Methods of Political Science .......................... 1
POLS 372L Laboratory in Principles & Methods of Political Science ...... 2

Choose one of the following:
POLS 350 or 411 or 412 or 414 ......................................................... 3

Choose one of the following:
POLS 155 American Political Institutions ....................................... 3
POLS 355 American national, State, and Local Governments* ................. 3

Choose one of the following:
POLS 156 European and Comparative Government .. 3
POLS 225 Elements of International Relations* ............................... 3

* (Upper division students should take Pols. Sci. 355.
Students will receive credit for only Pol. Sci. 355, not both)

ADVANCED REQUIREMENTS IN UPPER DIVISION (36 UNITS)

Choose 3 courses in Domestic Politics & Policy (9 units)
Choose 3 courses in Global Politics & Policy (9 units)
Choose 6 courses in Domestic or Global or
General Electives** (18 units)

**Courses in the Advanced Requirements Electives must
include 2 proseminars, or one proseminar and one
internship;

ADVANCED COURSES

Domestic: 360, 361, 403, 404, 405, 413, 440, 441, 442, 443,
444, 445, 446, 447, 448, 450, 455, 457A, 457B, 458, 460,
461, 462, 463, 465, 466, 467, 469/L, 471A, 471E, 471F

Global: 310, 321, 330, 332, 420A, 420B, 420C, 420D, 420E,
420F, 420G, 420H, 421, 422, 424, 426, 427A/L, 427B/L,
428, 429, 430, 431, 432, 432B, 433A, 433C, 434A, 434B,

General: 303, 350, 372/L, 411, 412, 414, 471D, 486SOC,
490CA, 494SOC, 496A-Z, 498A, 498B, 498C, 499A, 499B,
499C, 499R1A

Option 2: Public Policy and Management
This option offers a variety of courses in public policy and
management and allows students to form a thorough under-
standing of the political institutions through which public
plans are formulated and implemented. The option may be
scheduled by students who wish to prepare for careers in
government, politics, and public offices within public, non-
profit, or private sectors.

BASIC REQUIREMENTS (18 UNITS)

155 or 355 American Political Institutions
156 Comparative Government or 225 Elementary
International Relations
350 Great Questions in Politics
360 Public Administration
361 Introduction to Public Policy
372/L Principles & Methods of Political Science/Lab
ADVANCED REQUIREMENTS IN UPPER DIVISION (30 UNITS)
1. Four Core Courses From the Following (12 units):
   405  Public Policy Formation
   406  Fundamentals of Policy Analysis
   407  Implementation & Program Evaluation
   462  Ethics in Politics & Admin
   463  Public Personnel Administration
   465  Administrative Behavior

2. Six Electives Chosen from following (18 units)*:
   Must include 471E and 1 internship (498A-C)
   404  Urban Politics
   428  International Organizations
   429  U.S. Foreign Policy
   458  Administrative Law
   460  Public Policy: Welfare
   461  Environmental Policy
   464  Comparative Public Policy
   466  Politics of Public Spending
   467  Urban Administration
   469/L City Planning / Lab
   471E Proseminar in Public Policy & Administration
   498A-C Internship
   *Up to 6 units may be taken outside of the department with Chair approval.

THE MINOR: The minor in political science is designed for students who wish to have a formal secondary area of concentration. A minor is not required for a baccalaureate degree.

REQUIREMENTS FOR MINOR IN POLITICAL SCIENCE
(24 UNITS)
BASIC REQUIREMENTS (6 UNITS)
   POLS 155 American Political Institutions .................3
   or POLS 355 American National, State, and Local Governments .................3
   POLS 156 European and Comparative Government .........3
   or POLS 225 Elements of International Relations ..........3

UPPER DIVISION (18 UNITS)
   3 courses in Domestic Politics & Policy ...................9
   3 courses in Global Politics & Policy .....................9
   **(For courses see classification above)

TOTAL UNITS IN MAJOR (48 UNITS)
GENERAL EDUCATION UNITS (52 UNITS)
TITLE V (3 UNITS)
(Political Science 155 meets both major & Title V Requirements)
ELECTIVES (21 UNITS)
TOTAL UNITS REQUIRED FOR DEGREE (124 UNITS)
All courses in the major and all Title V and General Education courses must be taken for a letter grade. They may not be taken CR/NC. Political Science 155 or 355 partially fulfill Title V requirement.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE
(30 UNITS)
The graduate program in political science is a liberal arts program based upon superior under graduate preparation. It requires a higher level of achievement, and places greater emphasis upon independent study and research than does the baccalaureate program. Department evaluation and approval is required for admission to either classified or unclassified graduate standing. Please see additional information regarding classification standing in the Graduate Programs and Requirements Section.

Areas of specialization offered are as follows:
American Government and Politics; Comparative Government; International Relations; Methodology; Political Theory; Public Policy and Administration; Public Law.

ADMISSION REQUIREMENTS
For Classified status:
1. Completion of University requirements for admission to graduate standing.
2. Bachelor of Arts degree with a major in Political Science or completion of “minimum equivalency.”
3. Two letters of recommendation.
4. GPA of at least 3.25 in all undergraduate and graduate political science courses.
5. GPA of at least 3.25 in last 45 units of all course work.
6. Written statement by applicant indicating career objectives.

For Conditional status:
1. Completion of minimum University requirement for admission to graduate standing.
2. Bachelor of Arts degree with a major in Political Science or completion of “minimum equivalency.”
3. Two letters of recommendation.
4. GPA of at least 3.0 in all undergraduate and graduate political science courses.
5. GPA of at least 3.0 in last 45 units of all course work.
6. Written statement by applicant indicating career objectives.

Exceptional cases which may not meet all the given requirements for minimum equivalency will be considered by the Graduate Committee on petition by the applicant. Specific reasons for the waiver of minimum equivalent requirement must be offered.

COURSES ACCEPTABLE FOR THE MASTER’S DEGREE
(300-level courses in political science do not carry credit for the Master’s in Political Science; all 400-level courses except 490, 498, 499 carry credit for Master’s in Political Science). All 500 level graduate seminars in Political Science.

RECLASSIFICATION FROM CONDITIONAL TO CLASSIFIED STATUS:
1. Completion of at least 9 units in Political Science at CSUN with at least 6 units in 500 level courses.
   a. No credit or consideration will be given during the reclassification period for Pol.Sci. 490, 498, 499, 598, or 599.
   b. GPA of at least 3.25 in these 9 units.
2. Units taken beyond the 9 units will not count toward the master’s degree program until the student formally petitions to be reclassified and is given classified status.

*Minimum equivalency in lieu of Political Science major:
A. Completion of all lower division requirements in Political Science required of the major at CSUN.
B. Completion of a course in research methods.
C. Completion of an upper division course in political theory (411, 412, 414).
D. Completion of an upper division course in 3 additional areas of Political Science (i.e. American Government, Comparative Government, International Relations, Public Law, Public Administration).
E. Completion of an upper division proseminar in one of the 3 areas selected above.
3. Completion of minimum University requirements for admission to graduate standing.

Students denied at least conditional status by the Department, if granted admission by the University, may attempt to make up deficiencies and to reapply for admission. However, no course work taken under this status will count toward the 30 units required for the master’s degree. The following courses may not be used to remove deficiencies in GPA or course requirements: Pol. Sci. 490, 498, 499, 598, 599.

**DEGREE REQUIREMENTS**

1. A minimum of 30 units of approved graduate work comprised of:
   a. Pol. Sci. 571 (Seminar in Methodology).
   b. 2 graduate seminars in each of 3 areas of political science selected by the student in consultation with an advisor.
   c. 9 additional units, 6 of which may be at the 400 level, in political science (or a related field with approval of advisor). Pol. Sci. 490, 498, 499 are not acceptable.

2. Comprehensive examination in two areas of political science selected by the student in consultation with an advisor. Comprehensive examinations may be taken in the semester in which all course work will be completed or later.

**FOREIGN LANGUAGE/STATISTICS RECOMMENDATION:**

In cases where appropriate to the student’s fields of specialization and academic career goals, competence in a modern foreign language or in statistics may be recommended by the student’s primary subject advisor and Examination Committee, in consultation with the student.

**TOTAL UNITS REQUIRED FOR THE MA: 30**

**MASTER OF PUBLIC ADMINISTRATION PROGRAM (SPECIAL SESSIONS DEGREE)**

The M.P.A. is the appropriate professional degree program for career administrators in government or nonprofit agencies. Admission requires a bachelor’s degree (any major), a minimum of 2.5 grade point average in the last 60 semester (90 quarter) units, Graduate Record Examination waived if overall grade point average is 3.0 or above, and appropriate work experience. Graduation requires 33 units of course work and either a graduate project or comprehensive examination (36 units total). This degree program is entirely funded by tuitions and is administered through the College of Extended Learning (hence, special sessions degree). For further information, please contact program directors Christopher A. Leu or Warren M. Campbell at (818) 677-3909 or (818) 677-3477; or the department office at (818) 677-5635. See Public Administration listing in this catalog.

**COURSE LIST**

**LOWER DIVISION**

155. **AMERICAN POLITICAL INSTITUTIONS (3)**

An examination of the development and dynamics of American political institutions and political processes including a special emphasis upon the role of minority groups. This course satisfies the Title V United States Constitution requirement and the California State and Local Government requirement.

156. **EUROPEAN AND COMPARATIVE GOVERNMENT (3)**

Study of basic political concepts through comparative analysis of European governments and politics. (Available for General Education, Social Sciences.)

197. **ETHNIC POLITICS (3)**

An examination of the problems and politics of racial and national subgroups in America. The course includes focus on problems of ethnic identity, inequality and discrimination, and the impact of minority group politics upon public policy. (Available for General Education, Comparative Cultural Studies.)

225. **ELEMENTS OF INTERNATIONAL RELATIONS (3)**

An analysis of the basic historical, geographical, economic, ideological and strategic factors which underlie and condition conflict and cooperation among actors in the contemporary international system. (Available for General Education, Social Sciences.)

**UPPER DIVISION**

General prerequisites: Six units of appropriate lower division courses in political science. Additional specific prerequisites as indicated.

310. **PROBLEMS OF POLITICAL ECONOMY (3)**

Prerequisites: Econ 160 or 300 and completion of the lower-division writing requirement. A study of the interaction of politics and economics in selected problem areas involving global, national and urban political economic systems. The political role of global corporations and the political dimensions of trade, taxation and budgeting will be considered. (Available for General Education, Social Sciences.)

321. **COMPARATIVE SOCIALISM (3)**

Prerequisite: Completion of the lower-division writing requirement. The origins and development of socialism in the Western and non-Western worlds. Examination of the relative receptivity of various cultural and economic environments to socialist theory and practices. (Available for General Education, Comparative Cultural Studies.)

332. **POLITICS OF LATIN AMERICA (3)**

Prerequisite: Completion of the lower division writing requirement. An introductory study of the politics of Latin America. The topics treated will include dependency theory, revolution, the national security state, women in politics, theologies of liberation, and redemocratization. Selected nations are used as case studies. (Available for General Education, Comparative Cultural Studies.)

347. **THE JUDICIAL PROCESS (3)**

An examination of the dynamics of the national and state judicial systems, with emphasis on the workings of the Supreme Court within American separation of powers; internal procedures of decision-making; external influences on the courts; the politics of selecting judges; and relations with other political institutions.

350. **GREAT QUESTIONS IN POLITICS (3) (FORMERLY 250)**

Analysis of perennial political questions about power, authority, justice, equality and freedom. Course materials will include political and literary writings, films, case studies and legal cases. The aim throughout will be to relate these questions to contemporary political situations. (Available for General Education, Social Sciences.)
355. AMERICAN NATIONAL, STATE, AND LOCAL GOVERNMENTS (3)
A detailed study of the structures and functions of the national government and California state and local governments. Special attention is given to the legislative and executive branches in the policy-making and administrative processes as well as the constitutional bases for these processes. This course satisfies the Title V United States Constitution requirement and the California State and local governments requirement. Not open to students who have taken POLS 155.

360. PUBLIC ADMINISTRATION (3)
Analysis of the executive function in governmental processes together with a survey of the principles of administrative organization, personnel management, financial administration, and public relations. Problems and trends in government service as a career are discussed.

361. INTRODUCTION TO PUBLIC POLICY (3)
This course will introduce the student to public policy approaches, contexts, processes and outcomes.

372. PRINCIPLES AND METHODS OF POLITICAL SCIENCE (1)
(Formerly 271)
An introductory study of the history, nature, and current developments of research in politics. One hour of seminar and four hours of methods activity. (POLS 372L must be taken concurrently.)

380. LOS ANGELES: PAST, PRESENT, FUTURE (3)
(Same as HIST & URBS 380)
A multidisciplinary investigation of the Los Angeles urban area – its patterns of population and resources distribution; its historical, economic, social and cultural developments; and policies models designed to cope with its problems and to develop its potential as an ethnically diverse metropolis on the Pacific Rim. Application of social science methodology. Series of faculty and guest speakers, weekly discussion sessions, field trips. (Available for General Education, Social Sciences.)

372L. LABORATORY IN PRINCIPLES AND METHODS OF POLITICAL SCIENCE (2)
(Must be taken concurrently with POLS 372.)

403. STATE AND LOCAL GOVERNMENT (3)
A study of the political, administrative, and judicial systems of states, counties, cities, and special districts. Intergovernmental relations; functions; trends; current problems. Satisfies the Title V California state and local government requirement.

404. URBAN POLITICS (3)
A study of the structures and processes which determine public priorities and programs in urban areas.

405. THE PROCESS OF PUBLIC POLICY FORMATION (3)
Prerequisite: at least one upper division course in public administration or American government. A seminar examining several major areas of American public policy, explaining its formation and content by use of several analytic models: Policy areas studied may include civil rights, criminal justice, welfare, health, education, defense, and taxation.

406. FUNDAMENTALS OF POLICY ANALYSIS (3)
Prerequisite: A) At least 1 upper division course in Public Policy; B) POL 372/372L or an equivalent course in Research Methods. A systematic and critical approach to designing public policies. Integrates theory and social science techniques so students may apply the methods, models and tools of policy analysis to particular cases and problems that confront policy makers.

407. POLICY IMPLEMENTATION & PROGRAM EVALUATION (3)
Prerequisite: A) At least 1 upper division course in Public Policy; B) POL 372/372L or an equivalent course in Research Methods. This course provides an overview of policy implementation and program evaluation, by looking at the strategies, the techniques and tools used most frequently by policy makers and evaluators. Students will be introduced to the major theories and applications so as to be able to use the techniques of evaluation to assess projects and programs in terms of impact, process and cost.

411. GREEK, ROMAN, & MEDIEVAL POLITICAL THEORY (3)
An analysis of the major political theories and ideologies from the Sophists, Plato, and Aristotle through the Epicureans, Cynics, Stoics, Cicero, St. Augustine and Thomas Aquinas.

412. MODERN WESTERN POLITICAL THEORY (3)
An analysis of the major political theories and ideologies from Machiavelli and the Renaissance through Hobbes, Locke, the Enlightenment, Rousseau, Burke and Marx. Regular written assignments will be required.

413. AMERICAN POLITICAL THOUGHT (3)
American political ideologies from the colonial period, through the Revolution and the period of the Constitution, to the end of the nineteenth century.

414. WESTERN POLITICAL THEORY IN THE 20TH CENTURY (3)
A study of major contemporary theories in Western Europe and the United States. Included are such theorists as Sartre, Camus, Easton, Lasswell, Dewey, McLuhan, Marcuse, and Fanon, among other existentialists, behavioralists, Marxists, structuralists.

415. COMPARATIVE POLITICAL IDEOLOGIES (3) (Formerly POLS 496C)
This course will examine, compare, and contrast a range of political ideologies and their interpretation and application in contemporary societies. Attention is paid to defining the role and function of ideologies in specific contemporary states.

420A-H. INTERNATIONAL RELATIONS OF SELECTED AREAS (3)
An intensive study of the international relations and impact on the world of nations or areas of special interest which are not included in other courses.

421. THE POLITICS OF DEVELOPMENT (3)
An examination and critical analysis of the problems, both internal and international, of countries that are undergoing political and economic modernization. Specific issue areas covered may include: human rights; the global economy; women in the global workplace; poverty and world hunger; environmental degradation; militarism. Selected countries will be studied to determine historical trends in specific issue areas. Extensive examination of the paths and obstacles to world peace.
422. INTERNATIONAL POLITICS (3)
An advanced study of international politics from the standpoint of theories of international politics, individual, group and state behavior; the relation between continuity, conflict, and change in the international order; and an extensive examination of the paths and obstacles to world peace.

426. INTERNATIONAL LAW (3)
Case studies of legal precedents affecting the regulation of the international community; together with an evaluation of the efficacy of international judicial sanctions.

427A. MODEL UNITED NATIONS I (1)
The Fall semester of the Model U.N. Program begins with a general analysis of the role of the U.N. in world politics and comparative foreign policy. Particular emphasis is then placed on the foreign policy of the country to be represented and the internal and external factors on which that policy is based. Seminar format with group presentations and simulations. This course may not be taken more than once. One hour of seminar and four hours involving group presentations and simulations (POLS 427AL).

427B. MODEL UNITED NATIONS II (1)
Prerequisite: POLS 427A, 427AL and consent of instructor. The Spring semester of the Model U.N. program is intended to undertake the in-depth preparation of the delegation on the specific issues to be dealt with at the conference, and to conduct an evaluation of the year's experience. This course may not be taken more than once. One hour of seminar and four hours involving group presentations and simulations.

427BL. LABORATORY IN MODEL UNITED NATIONS I (2)
An analysis of the roles of various types of international organizations in contemporary world politics. Focus is on the United Nations, specialized (functional) agencies, regional organizations, and non-governmental organizations such as multinational corporations, foundations, and other "transnationals."

428. INTERNATIONAL ORGANIZATION (3)
An analysis of the contemporary declaratory and action policies pursued by the U.S. in the conduct of its foreign relations. Various conceptual models such as ends/means analysis, decision-making, and economic determinist will be tested and evaluated in terms of their descriptive, analytical and predictive utility.

429. UNITED STATES FOREIGN POLICY (3)
A study of the national political structures and international institutions and policies of the major nation or group of nations which are not included in other courses. Topics will vary from semester to semester. (Course may be taken for credit three times only.)

430. GOVERNMENT AND POLITICS OF SELECTED NATIONS (3)
An intensive study of the governmental organization, domestic policies, and political structures of a major nation or group of nations which are not included in other courses. Topics will vary from semester to semester. (Course may be taken for credit three times only.)

432A. GOVERNMENTS AND POLITICS OF MEXICO AND THE CARIBBEAN (3)
Introduction to the political process in Mexico, Central America and the Caribbean; political behavior within its institutional and cultural context; detailed study of the factors underlying current political instability in the region.

432B. GOVERNMENTS & POLITICS OF SOUTH AMERICA (3)
General survey of the political structures of the South American states, with particular emphasis upon Argentina, Brazil, Chile, and Uruguay; institutional and non-institutional means of organizing political power; contemporary political trends within the region.

433A. THE POLITICS OF CENTRAL AMERICA (3)
A study of the politics of Central America emphasizing current socio-economic and political crises and U.S. involvement in those crises.

433C. THE CHURCH AND POLITICS IN LATIN AMERICA (3)
A study of the role of the Catholic Church in contributing to change in the politics of Latin American societies. The Church will be viewed as a political value bearer as well as an evolving institution.

434A. GOVERNMENT AND POLITICS OF SOUTH ASIA (3)
A study of contemporary problems, political organization and governmental institutions of India, Bangladesh, Pakistan, Afghanistan, Nepal and Sri Lanka. Special attention to the development of nationalism and the process of modernization in the region.

434B. GOVERNMENT & POLITICS OF SOUTHEAST ASIA (3)
Comparative analysis of political processes, political change, and major national problems (i.e., poverty, population, and foreign economic penetration) in selected Southeast Asian states: Indonesia, Malaysia, the Philippines, Singapore, Burma, Thailand, Vietnam.

435A. GOVERNMENT AND POLITICS OF CHINA (3)
Analysis of the People's Republic of China, including its ideology, revolutionary origin, party organization, central and local government, role of the military, mass participation, economic modernization, cultural policies, and foreign policy. Changes from the Maoist to the post-Mao period will be emphasized. The question of Taiwan will be discussed.

435B. GOVERNMENT AND POLITICS OF JAPAN (3)
Analysis of continuity and change in political economy, society, and culture; state institutions, political power, and political issues; political competition; key national issues, policies, and their outcomes.

436A. GOVERNMENT AND POLITICS OF EUROPE (3)
Prerequisite: POLS 156 or permission of instructor. A comparative analysis of recent and contemporary European politics, focusing on the political, economic, and social structures that have shaped European Affairs since the end of World War II. Particular emphasis is given to the role played by the modern state, the interstate system, nationalism, and the world economy in shaping postwar European politics.

438. GOVERNMENTS & POLITICS OF THE MIDDLE EAST (3)
A study of contemporary social and political movements and of governmental institutions and politics of the Arab states, Israel, and Iran.

439A. GOVERNMENT & POLITICS OF SUB-SAHARAN AFRICA (3)
A study of the national governments, emerging political patterns, and problems of new states of west and east Africa. Study includes an overview of traditional societies and the politics of cultural sub-nationalism. Major focus on contemporary nationalism, modernization, and ideological developments, and on single-party, military, and other political structures. Seminar format with individual presentations.

439B. GOVERNMENT & POLITICS OF SOUTHERN AFRICA (3)
A study of the national political structures and international politics of southern Africa. Analysis will focus upon the
dynamics of race relations, African liberation movements, forms of government and politics, development of white and black nationalism, attempts at regional organization and international involvement in southern Africa. Seminar format with individual presentations.

440. AMERICAN POLITICAL PARTIES AND POLITICS (3)
A study of the rise of American political parties, their structure, operation, control, and political leadership.

441. INTEREST GROUPS (3)
A study of the tactics and aims of interest groups in their efforts to mold public opinion and to influence legislators, executives, judges, and administrators.

442. GOVERNMENT AND BUSINESS (3)
A study of the exercise of public power to regulate business, industry, and agriculture; the significant effects of a federal system upon business enterprise; inquiry into “doctrines in competition” through the use of decisions of the United States Supreme Court.

443. THE LEGISLATIVE PROCESS (3)
A detailed analysis of the structure, operations, and activities of the legislative bodies, including Congress, state legislatures, and municipal councils.

444. ELECTIONS AND VOTING BEHAVIOR (3)
A study of the electoral process in the United States, presented in terms of the history of elections, election and campaign techniques, and patterns of voting behavior.

445. POLITICAL BEHAVIOR (3)
Introduction to political behavior; influences of culture; ideology and social structure on political life; group influences on political behavior and major factors in leadership; psychological bases of participation in normal and extreme politics.

446. THE PRESIDENCY (3)
Analysis of the evolution of the Presidency since 1789, with regard to the President’s role as party leader, chief administrator, chief legislator, and national symbol. Analysis of major characteristics of the Presidency, issues concerning the President’s constitutional powers and limitations, his present responsibilities, and the political and administrative tools available.

448. WOMEN AND POLITICS IN THE UNITED STATES AND THE WORLD (3)
This course examines feminist theories and public politics as they shape the various political possibilities and strategies for women in the United States and in other selected countries.

449. THE POLITICS OF COMMUNITY ORGANIZING (3)
This course examines the role of community organizing and political participation as it translates into social movements and public policy making. The United States in the 20th century is the primary subject matter of the course, although other countries and time periods maybe used for illustrative or comparative purposes. Students will be required to integrate their own experiences in a community organizing project (field work is a course requirement) with literature and research on community organizing, social movements, and public policymaking.

450. JURISPRUDENCE (3)
A critical survey of the modern schools of jurisprudence and their treatment of law and such legal concepts and problems as obligation, responsibility, punishment, and the limits and purposes of law. The works of students of jurisprudence or legal philosophy will be supplemented with descriptive accounts of the nature and operation of modern legal systems.

455. CRIMINAL PROCEDURES (3)
A critical examination of the law and practices of the criminal process. Emphasis is placed on the major problems involved in pretrial procedures. These include search and seizure, self-incrimination, bail, plea bargaining, and the enforcement of constitutional rights.

457A. CONSTITUTIONAL LAW I (3)
General principles of federal and state Constitutional Law; powers of the national government; federal-state relations. A study of the leading decisions of the United States Supreme Court.

457B. CONSTITUTIONAL LAW II (3)
Limitations on the national government; the scope of constitutional rights and liberties. A study of the leading decisions of the United States Supreme Court.

458. ADMINISTRATIVE LAW (3)
An intensive study of the administrative process, with particular emphasis on legal requirements affecting administrative adjudication and rule-making.

460. WELFARE POLICY (3)
This course introduces students to the development of welfare policy and the evolution of the welfare state in western industrialized nations by inquiring into the philosophical and political debates surrounding social policy and its implementation.

461. ENVIRONMENTAL POLICY (3)
A study and evaluation of the political process governing the making of environmental policy. Specific issues covered will include energy policy, land use, air and water pollution, and hazardous and toxic waste disposal.

462. ETHICS IN POLITICS AND ADMINISTRATION (3)
An examination of the various kinds of ethical problems faced by elected and non-elected government personnel. The focus is on the scope and limits of individual responsibility in the practice of politics and the management of public organizations.

463. PUBLIC PERSONNEL ADMINISTRATION (3)
Analysis of the decline of the spoils system and development of the civil service, and analysis of practices and problem issues concerning such topics as recruitment, position classification, fringes, morale, in-service training, public-service unions, and civil liberties of public employees.

464. COMPARATIVE PUBLIC POLICY (3)
Prerequisite: At least 1 upper division course in Public Policy or Comparative Politics. This course examines why different nations formulate and implement different public policies for similar problems. It is a systematic and critical approach to understanding the effect of ideological orientations, political institutions, and governmental processes on the public policies of modern states.

465. ADMINISTRATIVE BEHAVIOR (3)
Analysis of classic theories and case studies in administrative behavior; relations of organizational structure and personality types; survey of approaches to rationality in decision-making through study of the factors influencing administrative choices.
466. THE POLITICS OF PUBLIC SPENDING (3)
Critical analysis of how government financial policies are formulated and controlled within a setting of conflicting views and interests. Examines the influence of the system of checks and balances, the effects of cooperation between chief executives, administrators, budget bureaus, legislators, pressure groups, and the general public, and the impact of government spending on the private economy.

467. URBAN ADMINISTRATION (3)
An analysis of public executives, including mayors, city managers, and chief administrative officers, and their relationships to the structures of urban government and the public priorities and programs of urban areas. The focus of the course will include the executive’s relationships with the formal structures, councils, civil servants, budgets, political parties, interest groups, independent agencies, the media, and other levels of governments.

469. CITY PLANNING (3)
Prerequisite: POLS 403 or 404 or URBS 400 or 410 or GEOG 450 or 452. A seminar which deals with the role of government in guiding the development of the urban physical environment. Nature, history, objectives, and methods of city planning. Organization for city planning. Political dynamics of policy formulation and control. Two hours seminar and two hours field activity.

471A-F. PROSEMINAR (3)
Prerequisite: POLS 372, 372L, and one upper division course in the subfield in which the proseminar is listed. Advanced research in a subfield in Political Science. Intended for seniors only. (Juniors may enroll with consent of instructor.)
   A. American Government
   B. Comparative Government
   C. International Relations
   D. Political Theory
   E. Public Administration and Public Policy
   F. Public Law

486SOC. SOCIAL SCIENCE CAREER INTERNSHIP (3)
Same as Geography, History, Pan African Studies, Psychology, and Sociology. Prerequisites: Upper Division standing in a social or behavioral science major, appropriate methods course as specified by the department, and consent of instructor. Social and behavioral science principles will be applied to the work place. At least ten hours per week of supervised fieldwork is required. Students will complete learning contracts and submit written reports related to their internships. (See section on Academic Internships.)

490. SUPERVISED INDIVIDUAL PROJECTS (1)
Prerequisite: Consent of instructor. Individual, supervised studies in selected areas of political science.

490CA. SUPERVISED INDIVIDUAL PROJECT-CALIFORNIA GOVERNMENT (1)
Prerequisite: Consent of instructor. Individual, supervised studies in California government. Satisfies the Title 5 California State and local Government requirement (requirement 3).

494SOC. SOCIAL SCIENCE CAREER INTERNSHIP
Prerequisite: Consent from the internship coordinator.

496A-PP. EXPERIMENTAL COURSES IN POLITICAL SCIENCE (3)
Selected topics in Political Science with course content to be determined.

498. INTERNSHIPS, FIELD ASSIGNMENTS & REPORTS (1-6)
Prerequisite: Consent of instructor. Does not carry credit for master’s degree.

499. INDEPENDENT STUDY (1-6)
Prerequisite: Consent of instructor. Does not carry credit for master’s degree. (300-level courses do not carry credit for a master’s degree. 400-level courses carry credit for a master’s degree only if they are approved by the department.)

GRADUATE
Prospective students must consult with the Department to determine the status of the program before applying.

522A-G. SEMINAR IN INTERNATIONAL RELATIONS (3)
Prerequisite: Classified graduate status or consent of instructor. Inquiry into major contemporary theories in international relations, including treatment of the problems of theory building and testing.
   A. Theory and Methodology
   B. International Law
   C. International Organizations
   D. Comparative Foreign Policies
   E. National Security Policies
   F. International Relations of Selected Areas
   G. Selected Topics

530A-J. SEMINAR IN COMPARATIVE GOVERNMENT (3)
Prerequisite: Classified graduate status or consent of instructor. An advanced analysis of the political institutions of foreign countries.

540A-J. SEMINAR IN AMERICAN GOVERNMENT & POLITICS (3)
Prerequisite: Classified graduate status or consent of instructor. Special studies in the institutions of American government and the operation of political parties.

560. SEMINAR IN PUBLIC ADMINISTRATION THEORY (3)
Prerequisite: Classified graduate status or consent of instructor. Special studies in the institutions of American government and the operation of political parties.

571. SEMINAR IN METHODOLOGY (3)
Prerequisite: Political Science 372, 372L and consent of instructor. A study of representative literature in the field of Political Science with emphasis upon the underlying methodological assumptions, analysis of statistical techniques employed with respect to appropriateness, evaluation of research design and application, and evaluation of validity of conclusion, with recommendations for replication or improvement.

597. DIRECTED COMPREHENSIVE STUDIES (3)
Open by special permission to students electing to do a comprehensive examination in partial fulfillment of the requirements for the degree Master of Arts.

599. INDEPENDENT STUDY (1-6)
Prerequisite: Consent of instructor.
The following courses are required of all majors.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE
LOWER DIVISION REQUIRED COURSES (10 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 150 Principles of Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSY 250 Physiological Correlates of Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Math 140 Introductory Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PSY 321 Experimental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 320L Laboratory in Statistical Methods</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: A score of 151 or higher on the English Placement Test is prerequisite to PSY 250.

LOWER DIVISION ELECTIVES

Lower division courses other than those specified as required do not count toward a major in psychology, but rather, exist to inform students about topics of special interest and will count toward the total units required for graduation.

UPPER DIVISION REQUIRED COURSES (16 UNITS OR MORE)

(Notes: Completion of the Lower Division Writing Requirement is prerequisite to PSY 321 and to PSY 313, 345, 350, and 370. Students are advised to complete the Lower Division Writing Requirement and to take PSY 320 and 321 early in their program because these courses are prerequisite to other upper division courses required in the major.)

The following courses are required of all majors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 320 Statistical Methods in Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY 320L Laboratory in Statistical Methods</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PSY 321 Experimental Psychology</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

CAREERS: Most careers in psychology require graduate study at the master’s or doctoral level. However, there are increasing opportunities in business, education, and health care for bachelor’s level psychologists. Master’s programs can lead to a wide range of careers including school psychology, business applications (human factors and industrial-organizational psychology), clinical psychology (if one receives appropriate education and a license), as well as a variety of other types of careers found in school settings (counseling, testing, research, and administration), mental health clinics, rehabilitation centers, and other health facilities. Psychologists are also employed by nearly all levels of governmental agencies, the Department of Veteran’s Affairs, and the Department of Defense. Psychologists who receive their doctorate can become professors, researchers, public policy analysts and others.

GRADUATE PROGRAMS

Candidates for the Master of Arts degree may specialize in one of the following areas:

1. Clinical Health Psychology
2. General Experimental Psychology
3. Human Factors and Applied Experimental Psychology
4. School Psychology

LICENSING AND CREDENTIAL PROGRAMS

These are open only to students pursuing the Masters Degree. Consult graduate advisor for details.

1. The department offers the School Psychology credential to persons enrolled in the School Psychology specialization.
2. Persons who complete the School Psychology specialization may also become eligible for licensing as an Educational Psychologist following the completion of appropriate post-degree work experience and completion of the licensing examination offered by the California State Board of Behavioral Science Examiners.
PSY 321L Research Seminar in Experimental Psychology
1

One of the following with associated research seminar is required:

PSY 313 Developmental Psychology
3
PSY 313L Research Seminar in Developmental Psychology
1
PSY 345 Social Psychology
3
PSY 345L Research Seminar in Social Psychology
1
PSY 370 Dynamics of Individual Behavior
3
PSY 370L Research Seminar in Dynamics of Individual Behavior
1

One of the following courses with its associated laboratory is required:

(NOTE: PSY 250, 320 and 321 are prerequisites to the following courses in the major. A passing grade on the Upper Division Writing Proficiency Examination is prerequisite to all 400-level psychology courses.)

PSY 401/L Comparative Psychology & Lab
3/1
PSY 402/L Brain and Behavior & Lab
3/1
PSY 403/L Perception and Cognition & Lab
3/1

UPPER DIVISION ELECTIVES (16 UNITS OR MORE)

Please Note: Electives may include the above upper division courses or any 300- or 400-level courses in the Department of Psychology. Electives may also include specialized workshops available only through extension as follows:

PSY X421AA-ZZ, Workshop in Psychology.

Prerequisite: Psychology 150. The student choosing to take these courses must pay the extension fees required. No graduate credit. No more than 4 units of X421 can count as upper division electives in Psychology. No more than 6 units of Psychology 498 (Practicum) may be counted toward the major. Please note that the number of units in Psychology must total 42 units; transfer credit for courses that reflect fewer units than those at CSUN must be compensated for in upper division elective units.

TOTAL UNITS IN THE MAJOR (42 UNITS)

GENERAL EDUCATION (50-52 UNITS)

Students may not double count psychology and GE courses except Math 140. Students of psychology are not exempt from any sections of the GE program.

TITLE 5 (6 UNITS)

Students may not double count psychology and Title 5 courses. Students of psychology are not exempt from any sections of the Title 5 requirements.

ADDITIONAL UNITS (24-26 UNITS)

TOTAL UNITS REQUIRED FOR THE DEGREE: 124

MINOR IN PSYCHOLOGY

LOWER DIVISION REQUIRED COURSES (6 UNITS)

PSY 150 Principles of Human Behavior
3
PSY 250 Physiological Correlates of Human Behavior
3

UPPER DIVISION REQUIRED COURSES (4 UNITS)

Select one of the following courses:

PSY 315/L Developmental Psychology & Research Seminar
4
PSY 345/L Social Psychology & Research Seminar
4
PSY 370/L Dynamics of Individual Behavior & Research Seminar
4

UPPER DIVISION ELECTIVES (11 UNITS)

TOTAL UNITS IN THE MINOR, PSYCHOLOGY (21 UNITS)

REQUIREMENTS FOR THE MASTER OF ARTS

The Department of Psychology offers a wide range of opportunities to persons with an interest in advanced work in psychology. For details of graduate programs and admission requirements and procedures, please refer to the Department of Psychology Graduate Handbook.

Options within Major: There are several areas of specialization within the M.A. program. Candidates for the Master of Arts Degree may specialize in any one of the following areas:

Clinical Health Psychology—Emphasizes the application of psychological theory and methods in the area of human services. The program is designed for persons who wish to develop skills and knowledge related to the organization and provision of psychological services. The emphasis, however, is not on a “private-practice” service model. Students who wish to enter an accredited Ph.D. program in community, counseling, or clinical psychology following the M.A. should select this option.

General-Experimental Psychology—Emphasizes basic theory and methodology in psychology. Following completion of core requirements, the student, in conference with a graduate advisor, may select an area of interest in psychology and set personal study objectives. Currently, some areas of interest in which specialized training is available are (a) quantitative methods and research design, (b) physiological psychology, (c) learning and cognition, (d) social psychology, (e) behavior modification and (f) developmental psychology. A rigorous program in General-Experimental Psychology, with thesis, is advised for the student who intends later to go on to the Ph.D.

Human Factors and Applied Experimental—Emphasizes the application of basic psychological theory and methods to contemporary problems in the design and evaluation of people-machine-environment systems. Objectives are to prepare students to function as effective human factors specialists in an industrial, governmental or consulting organization, and to provide a basic foundation for further advanced academic study in human factors and applied experimental psychology.

School Psychology—Designed primarily to prepare students to function as school psychologists or as human service specialists in related community settings. This full-time program requires two years of study and includes coursework required for award of the School Psychology Credential. Supervised fieldwork in public schools and applied field research are substituted for the thesis. Students in School Psychology working toward the State Credential authorizing service as a School Psychologist must take supplementary courses compatible with current State requirements beyond the minimum required for an M.A. degree. Consult the Department of Psychology Graduate Handbook for specific credential and master’s courses required, as well as admission criteria.

SPECIAL REQUIREMENTS

CLASSIFIED ADMISSION AND CONDITIONALLY CLASSIFIED ADMISSION. Participation in any of the graduate areas of specialization listed above is limited to CLASSIFIED and CONDITIONALLY CLASSIFIED graduate students. (Conditionally Classified Admission: This type of admission is used sparingly by the Department for students who have met all requirements for admission to the M.A. program except for completion of a course or examination. The Department specifies the conditions to be fulfilled.
before classified standing is awarded. Normally, these conditions must be met within the first graduate semester.) A Departmental Application Form (available from the Graduate Office) should be submitted to the Psychology Graduate Office by those desiring to apply for the M.A. in Psychology.

Department deadlines for application are February 15 for Fall admission (Clinical Psychology, School Psychology, Human Factors and Applied Experimental, General-Experimental) and November 1 for Spring admissions (Human Factors and General-Experimental only).

Transcripts, letters of recommendation and, in some cases, personal interviews are required. Information for prospective applicants may be obtained from the Psychology Graduate Office. Early application, careful study of the Department of Psychology Graduate Handbook and of the University Catalog, and consultation with the graduate advisor are strongly recommended.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

For admission to classified graduate status:
1. All options, except as noted in the Department of Psychology Graduate Handbook, require an undergraduate major in psychology. Applicants who do not have a major in psychology are required to complete certain undergraduate courses prior to acceptance to classified status. Those who do not have a major in psychology should study the Graduate Handbook and consult with the graduate advisor about these requirements.
2. A 3.0 grade point average is required except on approval by the graduate committee of the option in which degree work is to be taken. Enrollment is limited; it is not possible to admit all of the qualified students who apply.
3. Completion of the aptitude test and the advanced psychology test of the Graduate Record Examination is required, with satisfactory scores as prescribed by the graduate committee of the option in which degree work is to be taken. In certain options, persons with appropriate undergraduate preparation may request waiver of the requirement for the advanced psychology test.
4. Personal interview, prior experience in applied work and satisfactory letters of recommendation are required by some options. Consult the Department of Psychology Graduate Handbook.
5. General University requirements must also be met. Carefully consult other sections of this bulletin for details.

For the degree:
1. Although requirements for each option vary, a minimum of 34 units of approved graduate course work comprised of the following:

REQUIRED COURSES (14 UNITS)

Advanced Statistical Methods/Lab...........................................4
Advanced Research Methods/Lab...........................................4
Advanced Psychological Theory/Lab........................................6
(See the Department of Psychology Graduate Handbook for specific requirements for each graduate option.)

ELECTIVES (14 UNITS)

All electives are to be selected with the prior approval of the department. At least 6 units must be at the 600 level. With prior consent of the department, up to 6 units may be taken in a field other than psychology:
Approved 600-level electives (6 Units)
Other approved electives (8 Units)

THESIS OR FIELDWORK (6 UNITS)

1. Area Examinations:
Each candidate for the M.A. degree must pass an examination in the area of her/his specialization. The examination is conducted by the graduate committee of the area in which the student specializes. For further information, consult the Department of Psychology Graduate Handbook or graduate advisor.
2. Final Oral Examination:
This examination is primarily on the thesis and is scheduled two weeks after the final version of the thesis is presented to the graduate committee.
3. Total time allowed for completion of the entire program is seven years from the time of acceptance. Students who intend to interrupt their program are expected to notify the department in writing to request prior approval. Those who fail to meet these requirements, or who fail to maintain a grade-point average of 3.0 or greater, are subject to being dropped from the program.

TOTAL MINIMUM UNITS REQUIRED FOR THE MA DEGREE: 34

COURSE LIST

LOWER DIVISION

150. PRINCIPLES OF HUMAN BEHAVIOR (3)
A course designed to give students an understanding and appreciation of the scientific approach to human behavior, thought and action, and to provide the basic conceptual framework for studying the cognitive, emotional, and social aspects of human activity. Students will be required to spend approximately 2.5 hours during the term in an outside activity. (Available for General Education, Social Sciences.)

230. INTRODUCTION TO HUMAN SEXUAL BEHAVIOR (3)
Prerequisite: Psychology 150 (Same as Anthropology, Biology, History, Religious Studies and Sociology 230). This course provides an introductory overview of sexual function and sexual behavior in the human species. Emphasis will be given to the historical and religious background of the prevailing attitudes toward sex in our culture, as well as to current sexual practices from the perspective of contemporary social science. Additional topics include sexual values and ethics cross-culturally, love, legal aspects of sexual behavior, and eroticism in American culture.

235. PSYCHOLOGY OF WOMEN AND MEN (3)
Prerequisite: Psychology 150. Introduction to the psychological study of U.S. women and men viewed from the perspective of gender. Developmental and social psychological concepts and methods are used. Implications for the family, education, and workplace are drawn. (Available for General Education, Social Sciences.)

245. PSYCHOLOGY OF CONTEMPORARY SOCIAL ISSUES (3)
Prerequisite: An introductory course in psychology or other social or behavioral science. An inquiry into the psychological aspects of contemporary social problems. Analysis of psychosocial variables influencing people and a
Consideration of the conscious and unconscious aspects of motive states underlying current social conflicts. Individually assigned readings, small group discussions, and classroom participation required. (Available for General Education, Social Sciences.)

250. PHYSIOLOGICAL CORRELATES OF HUMAN BEHAVIOR (3)
Prerequisite: Psychology 150 and a passing grade in 098 or eligibility for the lower division writing requirement. Designed for students majoring in psychology. This course will help in developing a greater understanding of the relationship between human behavior and human physiology. It includes basic information about the anatomy and function of the nervous system and the endocrine system.

265. PSYCHOLOGY OF PREJUDICE (3)
Prerequisite: Psychology 150. A consideration of psychologically relevant research and theory relating to prejudice and discrimination. Special emphasis is given to Black, Mexican American, Asian, Native American and Jewish cultures. Topics include institutional racism and discrimination, issues of "reverse discrimination," culture, ethnicity and language, and historical victims of prejudice and discrimination. (Available for General Education, Comparative Cultural Studies.)

UPPER DIVISION

General Prerequisites:
A passing grade in 098 or eligibility for the lower division writing requirement.
Psychology 150 is prerequisite to all Upper Division courses. Completion of the Lower Division Writing Requirement is prerequisite to Psychology 313, 321, 345, 350, and 370.
A passing grade on the Upper Division Writing Proficiency Examination is prerequisite to all 400-level courses. Psychology 250, 320, and 321 are required for many upper division courses and are recommended for most others. The following courses when taken for the major must ordinarily be taken concurrently with a 1-unit laboratory. It is seldom the case that enrollment is allowed in these courses without concurrent enrollment in the associated laboratory. Such enrollment in the lecture alone requires the instructor’s approval.
300-level courses in Psychology and Psychology 401, 402, and 403 do not carry credit for an M.A. in Psychology.

302. HUMAN LEARNING IN THE FORMATIVE YEARS (3)
The process of learning during infancy, childhood, and early adolescence. Topics include concepts of cognitive development, individual problems in learning, the social learning process and the role of motivation.

304. COGNITIVE PSYCHOLOGY AND INSTRUCTION (3)
Prerequisites: Completion of the lower division writing requirement. An introduction to research and theory on how instruction affects student learning. Topics may include: development of learning and thinking strategies, instructional methods, learning in subject matter areas, individual differences, and classroom processes. The implication for education and teacher training are explored.

305. CULTURAL DETERMINANTS OF PSYCHOLOGICAL PROCESSES (3)
A psychological analysis of human emotions, actions, and cognitions in relation to the surrounding culture from which they emerge. The interactions between conformity to societal norms, and deviation from them, are examined in depth.

306. HEALTH PSYCHOLOGY (3)
Prerequisites: Psychology 250. This course provides an analysis of the contributions of psychology to medicine. Topics include an analysis of patient/physician interaction, psychological risk factors in illness, behavioral management techniques for disease, psychological intervention in addictive behaviors, and psychological promotion of healthy behavior. This course is intended for both psychology majors and students who intend to work in health related fields.

310. BEHAVIOR DISORDERS (3)
A study of the problems and dynamics of maladaptive behavior. Topics include causative factors, symptomatology, and psychotherapy.

312. PSYCHOLOGICAL ASPECTS OF PARENTHOOD (3)
Prerequisite: Completion of the Lower Division Writing Requirement. An analysis of motivations and skills necessary for parenthood and the effect of various parental attitudes and practices on the development of the self. An historical presentation of changes in parenting styles, cross-cultural views of parental practices and current information on the results of deviations in parental care. Examination of alternate family styles: single parenting, communal living arrangements and reconstituted families. (Available for General Education, Social Sciences.)

313/L. DEVELOPMENTAL PSYCHOLOGY & LAB (3-1)
Prerequisites: PSY 250 and completion of the lower division writing requirement. An analysis of the cultural, physical, social and emotional aspects of development from birth to adolescence. Emphasis is placed on studying the processes underlying the acquisition and development of behavior throughout the developmental period. Normative behaviors for particular ages and developmental states are examined where appropriate. Includes an evaluation of selected theories, contemporary issues and practical applications. In the normally corequisite laboratory, methods used to observe, record and analyze child behavior will serve as the basis for developing research projects. Three hours of lecture-discussion and two hours of laboratory per week.

317. PSYCHOPHARMACOLOGY (3)
Prerequisites: Psychology 250, and completion of the lower division writing requirement. A study of the most commonly used therapeutic and recreational drugs. Physiological effects upon the central nervous system and resultant behavior.

320/L. STATISTICAL METHODS IN PSYCHOLOGICAL RESEARCH & LABORATORY (3-1)
Prerequisite: Math 140. An analysis of the statistical decision-making procedures used in psychological research. Laboratory considers problem-solving techniques and computational methods needed to analyze data obtained in psychological experiments. Laboratory meets 2 hours per week.

321/L. EXPERIMENTAL PSYCHOLOGY (3-1)
Prerequisite: PSY 320, 320L and completion of lower division writing requirement. (Psychology 320 may be taken concurrently only with special permission of the instructor.) A study of principles and techniques used to
design and evaluate psychological research using simple and advanced experimental designs. The normally corequisite laboratory includes the use of various research methods in experimental psychology projects. Three hours of lecture-discussion and two hours of laboratory per week.

322/L. COMPUTER APPLICATION FOR PSYCHOLOGISTS & LABORATORY (3-1)
An introduction to the use of computers by psychologists in their clinical practice, research and teaching. Topics include word processing, spreadsheets, data base management and clinical assessment. Students will use personal computers and student versions of state of the art applications programs. No computer experience necessary. Three hours lecture and two hours laboratory.

344. PSYCHOLOGY OF CREATIVITY (3) (formerly 444.)
Examination of the research on creativity and exploration of the creative process through classroom activities, group projects, and the use of technology. The course examines the application of creative processes to effective instruction.

345/L. SOCIAL PSYCHOLOGY AND LABORATORY (3-1)
Prerequisites: PSY 250, 320, 320L and completion of the lower division writing requirement. A survey of phenomena that affect individual behavior. Topics include attitudes, affiliation, aggression, altruism, person perception, liking, social interaction, social influence, and group dynamics. In the normally corequisite laboratory, a study of methods of research in social psychology serves as a basis for developing research projects. Three hours of lecture-discussion and two hours of laboratory per week.

350/L. PRINCIPLES OF LEARNING & RESEARCH SEMINAR (3-2)
Prerequisites: Completion of the lower division writing requirement. Basic procedures and phenomena of behavior change emphasizing respondent and operant conditioning with applications to human behavior. In the normally corequisite laboratory, a study of the methods of research in the area of learning serves as the basis for developing research reports. Students present results of their studies in a seminar setting. Three hours of lecture-discussion and 2 hours of seminar per week.

352. MOTIVATION (3)
Prerequisites: Completion of the lower division writing requirement. This course explores the basic and acquired motivations that provide the energy to arouse and direct the individual’s interactions with society. Research methods in the social sciences are discussed. (Available for General Education, Social Sciences.)

356. INDUSTRIAL & ORGANIZATIONAL PSYCHOLOGY (3)
A study of the uses of psychology in the world of work from the viewpoints of both workers and management. Representative topics include hiring, training, promotion, motivation, safety, advertising, organizational climate, leadership style, legal issues in psychological testing, job satisfaction, job enrichment and job design.

365. INTRODUCTION TO GERONTOLOGY (3)
Prerequisite: Completion of the lower division writing requirement. Study of the changes occurring with age as a result of alterations in physical conditions, economic status, role changes, etc. and the accompanying psychological effects. Students engage in volunteer activities, or advocacy work in community agencies for persons over 55, or in research in memory, quality of life issues, physical health, exercise, etc. (Available for General Education, Social Sciences.)

370/L. DYNAMICS OF INDIVIDUAL BEHAVIOR & LAB (3-1)
Prerequisites: PSY 250, 320/L and completion of lower division writing requirement. Human behavior and personality as a function of social, dynamic, and biological determinants. Emphasis on social learning conditions which relate to normal and deviant behavior and other relevant contemporary issues. In the normally corequisite laboratory, a study of methods in the area of dynamics of individual behavior serves as a basis for developing research projects. Three hours of lecture-discussion and two hours of laboratory per week.

380. PSYCHOLOGY OF STRESS (3)
Prerequisites: Psychology 250. The cognitive, emotional and physiological effects of psychosocial stressors. Emphasis is placed on differentiating stress from other motivational constructs and examining contemporary research approaches and techniques of personal stress management.

383. INTERPERSONAL COMPETENCE & GROUP DYNAMICS (3)
Lecture-discussion and experiential activities designed to increase knowledge and skill in the areas of interpersonal relations, group dynamics and leadership.

384. DYNAMICS OF LEADERSHIP (3)
Prerequisite: Psychology 383. Examination of basic leadership theory and techniques, dynamics between leaders and group members, communication within the group and within the leadership hierarchy, and organizational management. Includes a practical application of leadership skills through participation in individual and group problem-solving projects.

386. THE ROLE OF PSYCHOLOGY IN THE LEGAL PROCESS (3)
A critical examination of the relationship between psychology and the legal system. The course will cover the application of social psychological theory and research to the courtroom, issues in mental health law such as competency to stand trial and the insanity defense, and legal restrictions on the practice of psychology including confidentiality and the duty to warn.

390A. PEER-ASSISTED INSTRUCTION IN PSYCHOLOGY (2)
Prerequisites: Consent of instructor and department chair. Preparation and supervised experience as an instructional aide in a selected lower division psychology course. This course may be taken only on a Credit/No Credit basis and may not be repeated. (Credit may be applied to the major or minor.) Not open to students who have received credit for 390B.

390B. PEER-ASSISTED INSTRUCTION IN PSYCHOLOGY (2)
Prerequisites: Appropriate upper division psychology courses, consent of instructor and department chair. Preparation and supervised experience as an instructional aide in a selected upper division psychology course. This course may be taken only on a Credit/No Credit basis and may not be repeated. (Credit may be applied to the major or minor.) Not open to students who have received credit for 390A.

401/L. COMPARATIVE PSYCHOLOGY & LABORATORY (3-1)
Prerequisites: PSY 250, 320L, 321L. A comparative study of animals with emphasis on the experimental analysis of their behavior. Traditional and contemporary views of instinct, learning, imprinting, social behavior, and cognition are covered. Individual projects require the application of previously learned research methodology and statistical techniques to the study of the natural behavior of animals in the laboratory and/or at the zoo. Three hours of lecture-
discussion and three hours of laboratory per week.

402/L. BRAIN AND BEHAVIOR & LABORATORY (3-1)
Prerequisites: Psychology 250, 320, 320L, 321 and 321L. The role of brain processes in behavior. Research questions and strategies are discussed. Research methods in brain and behavior are studied through individual or group projects carried out in the laboratory. Three hours of lecture-discussion and three hours of laboratory per week.

403/L. PERCEPTION AND COGNITION & LABORATORY (3-1)
Prerequisites: PSY 250, 320/320L, 321/321L. An analysis of the mechanisms by which people gather and process information from the environment. Basic phenomena of perception and cognition are discussed with an emphasis on experimental studies on such topics as pattern recognition, attention, memory, language, reasoning, and problem solving. Research methods in perception and cognition are studied through group projects carried out in the laboratory. Three hours of lecture-discussion and three hours of laboratory per week.

406. DEVELOPMENTAL DISABILITY (3)
The nature and causes of mental retardation and related disabilities. Discussion of psychological, social, and educational adjustment in light of current trends.

412. ADVANCED DEVELOPMENTAL PSYCHOLOGY (3)
Prerequisites: Psychology 313, 313S, 320, 320L, and 321L. Critical evaluation of the experimental and theoretical literature in developmental psychology. Selected contemporary and applied issues relevant to children and adolescents will be discussed.

413. CURRENT TRENDS IN CHILD PSYCHOLOGY (3)
No credit if Psychology 313 has been taken. A survey of the major contemporary issues, findings, and theories in child psychology, with a consideration of their broader implications.

418. THEORIES OF PERCEPTION (3)
Prerequisite: Psychology 403, 403L. A critical analysis of theories in sensation and perception, with a consideration of their broader implications.

420/L. ADVANCED STATISTICAL METHODS & LAB (3-1)
Prerequisite: Psychology 320 and 320L. Explores the relationships between advanced statistical methods and psychological research methods. Advanced techniques of analysis of variance and regression analysis are emphasized. Laboratory considers problem-solving techniques and advanced computational methods needed to analyze data obtained in complex psychological experiments. Consideration will be given to individual's particular research interest. Three hours of lecture-discussion and two hours of laboratory per week.

425. HISTORY AND PERSPECTIVES IN PSYCHOLOGY (3)
The historical development of psychology from its ancient origins to recent times with emphasis on its growth as a science, leading into discussions of the basic issues in contemporary psychology.

426. CONTEMPORARY TRENDS IN PSYCHOLOGY (3)
Trends and issues in current psychological theories and systems.

427. INTRODUCTION TO PSYCHOLOGICAL TESTING (3)
Prerequisite: Psychology 320 and 320L. Basic concepts of psychological measurement as applied to the construction, evaluation and use of group and individual tests of intelligence, aptitude, interest and personality are studied. Some demonstrations of the administration, scoring and interpretations of standardized tests are provided.

430. THEORIES OF PERSONALITY (3)
Prerequisite: Psychology 370. Basic principles of science as applied to the study of personality. Current theories of personality are analyzed in terms of structure, dynamics, and development. Characteristic research and research methods are covered.

432. APPLIED INTERGROUP RELATIONS AND MEDIATION (3)
Prerequisites: PSY 345/345L. Seminar examining theories of intergroup relations and their application in field settings, as well as principles of intergroup conflict mediation and their use. Students apply the theories and principles in supervised fieldwork and complete an approved community based project report, as either a service intern or a research intern.

440. THINKING (3)
Prerequisites: PSY 321, 321L. A survey of cognitive and symbolic processes, including concept formation, judgment, problem solving, creative activity, and states of consciousness.

442. COMMUNICATION (3)
Prerequisite: PSY 150. The sharing of information and meanings in both verbal and nonverbal communication. Strategies of communication for active listening and sending of affective messages in many different contexts: couples, parent-child, group, work place. Differences in communication style as a function of gender, age, social class, position of dominance, etc.

445. APPLICATIONS OF SOCIAL PSYCHOLOGY
Prerequisites: Psychology 345 and 345L; prior completion of, or concurrent enrollment sufficient to complete, the two foundation and two application courses in the concentration. Seminar on social psychological methods, theories, and research findings as they apply to understanding and solving behavioral problems and social issues. Topics include physical and mental health, environmental behaviors, prejudice and discrimination, sports, consumerism, education, law, media, organizations, politics, diversity, and culture. Students complete projects requiring application of social psychology to a theoretical controversy or practical problem.

446. ISSUES IN SOCIAL PSYCHOLOGY (3)
Prerequisites: PSY 345/345L. A critical analysis of basic and applied social psychological theories and issues and their application in contemporary society.

452. PSYCHOLOGY OF THE SEXUAL REVOLUTION (3)
Prerequisite: Psychology 305. Study of controversial topics in sexual behavior from a socio-psychological standpoint. Varying perspectives of heterosexuality, homosexuality, transsexualism, polygamous marriage, non-marital sex, and related topics are presented. Both traditional and unconventional viewpoints toward these variant behaviors are examined.

453. PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY (3)
Prerequisite PSY 230. This course examines sexual behaviors and attitudes in contemporary society and includes the physiological basis of sexual function and disfunction. A comprehensive and integrated approach to human sexuality.

454. CLINICAL PSYCHOLOGY (3)
Prerequisite: Psychology 310 or 430. Survey of varied
approaches to psychotherapy and examination of assessment methods used in research and decision making in clinical settings. Historical development of the field of clinical psychology and related disciplines and current professional issues such as graduate programs, ethics and delivery of mental health services to the community are explored. Students are expected to complete 20 hours of field work in an agency related to their career objective.

455. ETHICAL, PROFESSIONAL AND LEGAL STANDARDS IN PSYCHOLOGY (3)
Prerequisite: Upper division or graduate status in psychology. Ethical issues relevant to teaching, research, and application of psychology are reviewed with an emphasis on the principles of the American Psychological Association’s ethic code and related professional standards and guidelines.

460. COUNSELING AND INTERVIEWING (3)
Prerequisites: PSY 310 or 430 and Senior or Graduate Standing. An intensive study of current approaches to individual counseling and psychotherapy, particularly for those students seeking preparation for graduate programs. Format allows students to present research findings, discuss current theories, and to experience therapy situations through role play and supervised counseling.

461. ADOLESCENCE (3)
An analysis of the physical, cognitive, social and emotional changes from puberty to adulthood. The contemporary youth culture is examined from a historical and cross-cultural perspective. An evaluation of age norms and deviant development is discussed. A project involving some aspect of adolescent development is required.

462. THE DEVELOPMENT OF LANGUAGE AND THOUGHT IN THE YOUNG CHILD (3)
An analysis of the processes of language and cognitive development and their interactions in young children. Problems, issues and implications of these processes for use with children are considered. Current theories are evaluated. Project is required.

464. COGNITIVE AND BEHAVIORAL INTERVENTION TECHNIQUES (3)
Prerequisite: PSY 350. A consideration of some of the major issues and theories of human behavior change including a critical review of some of the important relevant experiments and areas of application. Includes techniques of modifying cognitive processes and behavior in the medical and clinical settings.

465. AGING (3)
Prerequisite: PSY 365. A comprehensive study of the last years of life including physical changes, social adaptations, psychological aspects and the interactions among these areas. Successful aging is explored as well as problem areas. Attention is given to intervention strategies and to theoretical formulations. Students are expected to participate in ongoing relationships with the elderly.

470. INTRODUCTION TO PSYCHOBIOLOGY (3)
Prerequisites: Psychology 402, 402L. A consideration of the physiological, biochemical, anatomical and endocrinological aspects of behavior. Traditional theories and current topics in psychobiology will be discussed.

482. HUMAN FACTORS IN SYSTEMS DESIGN (3)
A study of applications which illustrate human factors principles and practices in the design of industrial systems, residential environments, and community facilities.

Designing for human performance and behavior is emphasized.

483. PRINCIPLES OF HUMAN RELATIONS (3)
An examination of interpersonal communication and group interaction by using the classroom group as a microcosm. Emphasis is on increasing interpersonal competence and on understanding the principles underlying such behavior.

483T. TUTORIAL IN HUMAN RELATIONS (1)
Prerequisite: Psychology 483 (may be taken concurrently). Supervised projects and field study in the area of human relations.

484. PRINCIPLES OF HUMAN FACTORS (3)
A review of the psychological and behavioral principles of human factors. Representative topics include principles of information presentation, human capabilities and limitations, environmental stressors, and the design of equipment and products for human use.

486SOC. SOCIAL SCIENCE CAREER INTERNSHIP (3)
(Same as Geography, History, Pan African Studies, Political Science, and Sociology.) Prerequisites: Upper division standing in a social or behavioral science major, appropriate methods course as specified by the department, and consent of the instructor. Corequisite: Enrollment in 1 unit of SBS486: Social Science Career Seminar. Contact school office. Social and behavioral science principles are applied to the work place. At least nine hours per week of supervised fieldwork are required. Students complete learning contracts and submit written reports related to their internship. (See section on Academic Internships.)

487. PSYCHOLOGY OF HUMAN-COMPUTER INTERACTION (3)
A seminar focusing on the psychological and behavioral issues in computer-based systems. Principles of cognitive science, human factors and social psychology are applied to the study of human-computer communications processes. Research topics include voice input, interactive graphic systems, decision-aiding, artificial intelligence, perceptual influences on display image quality and user models of computer systems. Course includes the critical evaluation of sample interface designs. No programming knowledge is required.

495A-Z. TUTORIAL IN PSYCHOLOGY (1-4)
Supervised individual projects in selected areas of interest. A maximum of six units may be taken for credit. May be offered to qualified students as a substitute for a required laboratory or seminar. Sections meeting in small groups for reading and discussion will be offered in the following fields as schedule and staff allow: A-Teaching; B-Human ecology; C-Counseling and Interviewing; D-Social Psychology; E-Human Factors; F-Animal Behavior; G-Teacher Training; H-Applied Cognitive Psychology; I-Electrophysiology; J-Neuropsychology; K-Student Leadership; M-Linear Models; S-Stress; T-Tutoring; Z-Zoo research.

496A-Z. EXPERIMENTAL COURSES IN PSYCHOLOGY (1-4)
Experimental courses in Psychology with course content to be determined.

497. PROSEMINAR IN PSYCHOLOGICAL RESEARCH (1-3)
Prerequisite: Senior standing in Psychology. An introduction to psychological research and writing through supervised individual projects and field work. A maximum of six units may be taken for credit.
498. PRACTICUM IN PSYCHOLOGY (1-3)
Supervised field work participation in approved community agencies. Written reports and regular conferences with instructor. Participation limited to three units in each of two semesters. A maximum of three credits may be applied to the M.A.

499. INDEPENDENT STUDY (1-3)

GRADUATE
(300-level courses in psychology and 401, 402, 403 do not carry credit for a master’s in psychology; other 400-level courses in psychology do carry credit for a masters up to limits described under “approved elective” above.)

513. HUMAN DEVELOPMENT: A LIFE SPAN APPROACH (3)
Prerequisites: A course in child or adolescent psychology or gerontology or consent of instructor. A life span approach to the individual from infancy to old age with consideration of biological, psychological and social development. Case studies and other empirical observations will focus on the emerging self and the factors that may challenge the development of a well integrated and flexible sense of self.

514. ADVANCED EXPERIMENTAL PSYCHOLOGY (3)
Prerequisites: Psychology 321, 321C, 420, and 420L and consent of instructor. A critical review of current problems in the field of experimental psychology with emphasis on methods, data, and concepts specific to the experimental approach. Laboratory experience with techniques and equipment used in experimental studies of behavior. Two hours seminar, two hours laboratory per week.

520/L. MULTIVARIATE STATISTICAL METHODS & LAB (3-1)
Prerequisite: Psychology 420 and 420L. A study of multiple-response, multi-factor regression analysis, multivariate analysis of variance, alternative models in factor analysis, and statistical classification methods. Background matrix algebra and computational techniques required in applications. Laboratory considers problem-solving techniques and advanced computational methods used to analyze multivariate data obtained in psychological experiments. Three hours of seminar and two hours of laboratory per week.

524/L. MULTIVARIATE ANALYSIS BY COMPUTER & LAB (3-1)
(Formerly 424/L)
Prerequisites: Psychology 420 and 420L. Analysis of multivariate research data in psychology using packaged computer programs. Standard techniques with applications in psychology are covered. Choice of analytic technique is discussed, as are methods of screening data to assure appropriateness of techniques. Laboratory provides direct experience with computing facilities for conducting multivariate analyses and computational methods extending statistical analyses provided by computer output. 3 hours lecture-discussion and two hours of laboratory per week.

530. SEMINAR: THEORIES OF PERSONALITY (3)
Prerequisite: Psychology 430. An advanced consideration of the theories of personality with special emphasis on trends and recent research findings.

592B. SEMINAR IN RESEARCH METHODOLOGY (3)
Prerequisite: Psychology 592A and 15 units of classified graduate work and consent of instructor. The students develop and carry out research projects in their elective areas and they present their ideas, resources, and proposed methods of research to the class for critical discussion. A report of the research written to conform to journal format is required.

594A-Z. TUTORIAL IN PSYCHOLOGY (1-4)
Supervised individual projects in selected areas of interest. May be repeated for credit. Sections meeting in small groups for reading and discussion will be offered in the following areas as schedule and staff allow: A-Behavior Disorders; D-Emotion and Motivation; E-Human Factors Design; L-Behavior Modification; R-Research Methods.

595A-Z. SELECTED TOPICS IN PSYCHOLOGY (1-4)
Advanced examination of selected studies in psychology with course content to be determined. B-Sensation and Perception; C-Conditioning and Learning; F-Cognition; G-Multivariate Methods; I-Social Psychology; J-Social Psychology II; K-Linear Models; S-Research Projects.

601. PSYCHOLOGICAL SERVICE SYSTEMS (3) (Formerly 501)
Prerequisite: Consent of instructor. A study of the legal, ethical, and professional bases for psychological services. Professional roles in various settings are considered with emphasis on school psychological services. The design, development, and evaluation of alternative human service delivery systems are explored. Lecture-discussion three hours per week.

602A. MENTAL HEALTH MODELS (3) (Formerly 502A)
Prerequisites: Classified graduate status and consent of instructor. Historical, theoretical, and evaluative understanding of community and clinical models. Includes a study of mental health legislation, funding, cost effectiveness and current issues in the delivery of mental health services. An analysis of types of Community Mental Health Programs.

606. SEMINAR IN EXCEPTIONALITY (4) (Formerly 506)
Prerequisite: Consent of instructor. A study of children who are exceptional intellectually, physically, emotionally. Students will be required to participate in ongoing programs with exceptional children.

610. ADVANCED BEHAVIOR DISORDERS (3) (Formerly 510)
Prerequisites: Psychology 310, 370, 454. Recent developments in theories, findings, and practices in the field of behavior disorders are reviewed.

612. CONTEMPORARY PROBLEMS IN CHILD PSYCHOLOGY (3)
(Formerly 512)
Prerequisites: Psychology 313 or equivalent and classified graduate status. Examination of current approaches to critical issues and theories relevant to an understanding of developmental processes. Applications of results of these current approaches for psychological service to children are discussed. Lecture-discussion three hours per week.

622A-B. RESEARCH AND STATISTICAL CONCEPTS IN PSYCHOLOGICAL SERVICES (3-3) (Formerly 522A-B)

622AL-BL. LABORATORY IN RESEARCH AND STATISTICAL CONCEPTS IN PSYCHOLOGICAL SERVICES (1-1)
(Formerly 522AL-BL)
Prerequisites: Psychology 320, 320L, 321, and 321L or equivalent and admission to graduate program in School Psychology or Clinical Psychology. Conceptual integration of research and statistical methods appropriate for psychological service applications. Laboratory provides direct experience with computing facilities in conducting multivariate analyses appropriate for psychological services applications. Three hours of seminar and two hours of laboratory per week.

592A-Z. SELECTED TOPICS IN PSYCHOLOGY (1-4)
Advanced examination of selected studies in psychology with course content to be determined. B-Sensation and Perception; C-Conditioning and Learning; F-Cognition; G-Multivariate Methods; I-Social Psychology; J-Social Psychology II; K-Linear Models; S-Research Projects.

601. PSYCHOLOGICAL SERVICE SYSTEMS (3) (Formerly 501)
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622A-B. RESEARCH AND STATISTICAL CONCEPTS IN PSYCHOLOGICAL SERVICES (3-3) (Formerly 522A-B)

622AL-BL. LABORATORY IN RESEARCH AND STATISTICAL CONCEPTS IN PSYCHOLOGICAL SERVICES (1-1)
(Formerly 522AL-BL)
Prerequisites: Psychology 320, 320L, 321, and 321L or equivalent and admission to graduate program in School Psychology or Clinical Psychology. Conceptual integration of research and statistical methods appropriate for psychological service applications. Laboratory provides direct experience with computing facilities in conducting multivariate analyses appropriate for psychological services applications. Three hours of seminar and two hours of laboratory per week.
625A-B. PSYCHOLOGICAL TESTING (INDIVIDUAL) (3-3)  
(Formerly 525A-B)

625AL-BL. LABORATORY IN PSYCHOLOGICAL TESTING (INDIVIDUAL) (1-1)  
(Formerly 525AL-BL)

Prerequisites: Psychology 427 and consent of instructor. 
Theory and practice of individual testing in normal and disadvantaged groups. Supervised practice in test administration, evaluation, integration of data from multiple sources, and communication of results. Three hours lecture and two hours laboratory per week.

626. PROBLEMS OF THE ATYPICAL CHILD (3)  
(Formerly 526)

Prerequisite: 525A and 525B. Application of psychological principles to the study of the atypical child, including a survey of etiological theories. Testing the atypical child. Supervised activity required.

628. FUNDAMENTALS OF PSYCHOTHERAPY (3)  
(Formerly 528)

Prerequisites: Psychology 460 or 527 and consent of instructor. (Psychology 527 may be taken concurrently.) A comprehensive review of representative theories of psychotherapy and behavioral readjustment with an evaluation of the assumptions underlying these theories. Emphasis given to group work in a community mental health setting. (Some sections are reserved exclusively for M.A. students in the classified graduate programs.)

629. SEMINAR IN BEHAVIOR MODIFICATION (3)  
(Formerly 529)

Study of theory, ethics and practices of behavior therapy and behavior modification procedures. (Consult instructor regarding practicum option.)

631. INDIVIDUAL CASE STUDIES IN PSYCHOLOGY (3)  
(Formerly 531)

Prerequisite: Psych. 430 or consent of instructor. This seminar is designed to reach a better understanding of individual personality dynamics and relevant personality theories by a detailed examination of classic and contemporary cases.

640. ADVANCED SOCIAL PSYCHOLOGY I (3)  
(Formerly 540)

Extensive coverage of major research and theories advanced in contemporary social psychology, with emphasis on individual behavior as a function of social variables. Topics include interpersonal attraction, person perception and attributional processes, attitude formation and change, social motivation, aggression and altruism.

641. ADVANCED SOCIAL PSYCHOLOGY II (3)  
(Formerly 541)

Extensive coverage of major research and theories in contemporary social psychology with emphasis on group behavior. Topics include cooperation and competition, conformity, leadership, social learning, socialization and environmental social psychology.

646. GROUP DYNAMICS AND LEADERSHIP (3)  
(Formerly 546)

Prerequisites: Psychology 345 and either 442 or 483 and consent of instructor. Study of interpersonal relations and leadership within various social organizations. Applied methods for group motivation and participation in activities toward accomplishing group goals. Supervised activity required.

654A-D. PRACTICUM IN CLINICAL PSYCHOLOGY (3-3-3-3)  
(Formerly 554A-D)

Prerequisites: Psychology 528 and consent of instructor. The integration of varied clinical material, including interviews, projective and objective personality tests, social history information and therapy protocols. Participants prepare and present clinical material for critical group discussion. Supervised field work in supervised individual projects required.

655A-D. FIELD WORK IN PSYCHOLOGICAL SERVICES (1-5)  
(Formerly 555A-D)

Prerequisite: Consent of instructor. Supervised field work training in psychological services. Each unit represents 60 hours of supervised experience.

656A-D. SEMINAR IN HUMAN FACTORS PRINCIPLES AND APPLICATIONS (3-3-3-3)  
(Formerly 556A-D)

Prerequisites: Psychology 321, 321L, and consent of instructor. Courses cover current topics in human factors as a science and as a profession. Letters (A-D) represent offerings of the course by different faculty members. Topics include accidents and safety, work load assessment, task analysis, job design, human-computer communication and behavioral programming.

660. SEMINAR IN COUNSELING (3)  
(Formerly 560)

Prerequisite: Psychology 460 and consent of instructor. Examination of current theoretical approaches to counseling with emphasis on applications to individual and group, children, adolescents, and families. Some sections are reserved exclusively for M.A. students in classified graduate programs. Usually taken concurrently with Psychology 560T Tutorial in Counseling.

660T. TUTORIAL IN COUNSELING (1)  
(Formerly 560T)

Prerequisites: Psychology 310 or 430, and graduate standing. Tutorial option for Psychology 560, Seminar in Counseling. Examination of the problems and techniques of counseling and interviewing. Dynamics of the interpersonal relationship between counselor and counselee in relation to current theories of personality. Intensive supervised individual activity and field work will supplement classroom lectures.

678A-B. HUMAN PERFORMANCE RESEARCH IN PSYCHOLOGY (4-4)  
(Formerly 578A-B)

Prerequisite: Psychology 482 or consent or instructor. Principles and methods of measuring and evaluating human performance in system design. Topics include the application of laboratory and simulation techniques, field studies and psychometric and survey techniques to the description of human capabilities and limitations.

682. SUBSYSTEM INTEGRATION IN HUMAN FACTORS DESIGN (4)  
(Formerly 582)

Prerequisite: Psychology 482 or consent of instructor. A project-discussion course on the human factors problems and principles involved in the design of a community service system. Emphasis on incorporating the individual student’s subsystem designs into a total integrated system.

683. SEMINAR IN HUMAN RELATIONS (3)  
(Formerly 583)

Prerequisite: Permission of instructor. A social psychological analysis of interpersonal behavior. Analysis of group experience and research on variables involved in interpersonal and group behavior.

686. HUMAN FACTORS IN COMPLEX CIVIL SYSTEMS (3)  
(Formerly 586)

Prerequisites: Psychology 482, or 582, or consent of instructor. Course involves the design of a major variable load-demand, responsive civil system. Emphasis devoted to failure-mode evaluation and analyses and principles of behavioral engineering. Three hours per week plus one hour supervised individual projects.
690A. SEMINAR IN SENSATION AND PERCEPTION (3)  
(Formerly 590A)
Prerequisites: Classified graduate status and consent of the instructor. Critical review of current literature, theories, methods and problems concerning sensory and perceptual processes.

690B. SEMINAR IN CONDITIONING AND LEARNING (3)  
(Formerly 590B)
Prerequisites: Classified graduate status and consent of the instructor. Critical review of current literature, theories, methods and problems concerning conditioning and learning.

691A. SEMINAR IN COGNITION (3)  (Formerly 591A)
Prerequisites: Classified graduate status and consent of instructor. Critical review of current literature, theories, methods, and problems concerning thinking processes and communication.

691B. SEMINAR IN EMOTION AND MOTIVATION (3)  (Formerly 591B)
Prerequisites: Classified graduate status and consent of the instructor. Critical review of current literature, theories, methods and problems concerning emotion and motivation.

692A. SEMINAR IN RESEARCH METHODOLOGY (3)
Prerequisites: Classified graduate status and Psychology 321, 321S, 420, and 420L (the latter may be taken concurrently only if student is taking 15 units in graduate program), and consent of instructor. A critical analysis of published research in terms of the underlying assumptions and stated hypothesis, adequacy of research design, appropriateness of statistical techniques employed, and the justification for conclusions and implications drawn.

696. DIRECTED GRADUATE RESEARCH (3)  (Formerly 596)

697. DIRECTED COMPREHENSIVE STUDIES (3)  (Formerly 597)

698. THESIS OR GRADUATE PROJECT (3-3)  (Formerly 598)
Prerequisite: Classified graduate status and the consent of the instructor. Only two registrations in thesis are permitted.

699. INDEPENDENT STUDY (1-3)  (Formerly 599)
Written proposals for independent study in areas of special interest to the advanced student must be submitted for departmental approval prior to registration.
MASTER OF PUBLIC ADMINISTRATION

Directors: Dr. Warren Campbell and Dr. Christopher Leu
Assistant Director: Veena Bassi

COLLEGE OF EXTENDED LEARNING

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Website: www.csun.edu/~vrb49619/

ADMINISTRATION OF THE PUBLIC ADMINISTRATION PROGRAM

(SPECIAL SESSIONS DEGREE):

The MPA is the appropriate professional degree program for career administrators in public and nonprofit agencies. Admission requires a bachelor’s degree (any major), a minimum of 2.5 grade point average in the last 60 semester (90 quarter) units, Graduate Record Examination (waived if overall grade point average is 3.0 or above), and appropriate work experience. Graduation requires 33 units of coursework and either a graduate project or comprehensive examination (36 units total). This degree program is entirely funded by tuition and is administered through the College of Extended Learning (hence, special sessions degree).

FACULTY: Matthew A. Cahn (Political Science); Warren M. Campbell (Political Science); Susan Curzon (Vice Provost of Information & Technology Resources and Dean of University Library); Herman L. DeBose (Sociology); John Hartzog (Director, Learning Resource Center); Paul Krivonos (Communication Studies); Stephen Lefevre (Director, CSUN Ventura Campus); Christopher A. Leu (Political Science); Myrna P. Mandell (Management); Richard Moore (Management); Patrick Nichelson (Religious Studies); Wayne Plasek (Sociology); Richard Rodewald (Philosophy); Stella Z. Theodoulou (Political Science).

GRADUATE ADVISORS: General Advisement: Program Directors and faculty members

PROGRAM OVERVIEW: The Master of Public Administration Program (MPA) at California State University, Northridge is a program for the mid career professional. The program has been designed to provide an academically sound and effective study for those who have successfully earned their baccalaureate degree or master’s degree in a field other than public administration, but whose career path and interest have heightened their need for advanced professional study and preparation in public administration.

THE MULTIDISCIPLINARY CURRICULUM

The University MPA Program is multidisciplinary, and draws upon a wide array of scholarly resources that are most relevant to the changing professional practice of the public administrator.

THE LINK BETWEEN SCHOLARSHIP AND PRACTICE

The MPA Program emphasizes creating a strong link between scholarship and effective professional practice. This link is fostered primarily through the careful selection of instructional faculty—accomplished practitioners with strong academic backgrounds and University faculty.

ACADEMIC OVERSIGHT OF THE PROGRAM

The Executive Board and the MPA Program directors provide the primary academic oversight of the program. The academic oversight of the MPA Program has several interconnected components: the College of Social and Behavioral Sciences, the Department of Political Science, the College of Extended Learning, the program directors, and an Executive Board comprised of participating full-time University faculty members.

REQUIREMENTS FOR THE MASTER’S DEGREE

ADMISSION REQUIREMENTS

Applicants may be admitted to the University in classified graduate standing by satisfying the following:

1. A bachelor of science or a bachelor of arts from an accredited college or university;
2. Minimum 2.5 grade point average in the last 60 semester (90 quarter units) attempted;
3. Graduate Record Exam required for admission for applicants whose GPA is below 3.0. Score must be at least 50% percentile in any one of the three portions: verbal, quantitative or analytical;
4. Successfully complete the Writing Proficiency Examination (WPE), and
5. Appropriate work experience.

GRADUATION REQUIREMENTS

1. Complete a minimum of 33 semester units of approved graduate courses;
2. Complete at least 24 of these units in residence;
3. Complete all coursework with a grade point average of at least 3.0 (B); and
4. Complete a graduate project or a comprehensive examination (in addition to the above 33 units of course work).

CORE COURSES (24 UNITS)

MPA 610 Seminar in Public Administration & Its Environment ........................................3
MPA 620 Research Methods for Public Adm..........................3
MPA 630 Organization Theory and Human Behavior....................3
MPA 640 Public Policy Analysis........................................3
MPA 643 Human Resources Management.............................3
MPA 644 Public Budgeting and Financial Administration..............3
MPA 650 Seminar in Public Policy Process..........................3
MPA 660 Integrative Seminar.........................................3

ELECTIVES (9 UNITS)

Select three courses of the following:

MPA 612A Intergovernmental Relations..............................3
MPA 622A Policy Implementation and Program Evaluation...........3
MPA 622B Management of Information Resources ...............3
MPA 632A Organizational Leadership.................................3
MPA 632B Strategic Management......................................3
MPA 632C Communication in Public Organizations..............3
MPA 632D Management of Nonprofit Organizations..............3
MPA 642A Ethics and Professionalism................................3
MPA 642B Public Sector Labor Relations..............................3
MPA 642C Public Entrepreneurial Management.....................3
MPA 652A Administrative Law........................................3

GRADUATE PROJECT/COMPREHENSIVE EXAM

Select one of the following:

MPA 697S Comprehensive Examination............................3
MPA 698S Graduate Project........................................3
2000-2002

PUBLIC ADMINISTRATION

503

COURSE LIST

CORE COURSES

610. SEMINAR IN PUBLIC ADM & ITS ENVIRONMENT (3)
Introduces graduate students to the major areas within public administration and encourages them to relate this knowledge to their own experience and career. Considers the political, social and economic environment of public administration.

620. RESEARCH METHODS FOR PUBLIC ADMINISTRATION (3)
Discusses theory and limits of scientific inquiry; quantitative and qualitative methods of analysis; research design and implementation. Encourages critical analysis of the research underlying policy recommendations. Introduces students to a wide variety of social science research techniques and assists them in developing their own research projects.

630. ORGANIZATION THEORY & HUMAN BEHAVIOR (3)
Traces the historical development of organization theory. Examines contemporary approaches to the study of organization. Discusses the various concepts, issues and approaches to the study of organizational behavior. Considers such concepts and processes as decision-making, power, conflict, communication, leadership, motivation, group effectiveness, organizational change, and personal and organizational autonomy.

640. PUBLIC POLICY ANALYSIS (3)
Focuses on the methods and models of policy analysis used by public administrators. Emphasis on developing a perspective for putting social problems in the context of market failure as well as government failure. The basics of cost-benefit analysis and its application are also examined.

643. HUMAN RESOURCES MANAGEMENT (3)
Focuses on the development of public service concepts: personnel methods, testing and recruitment; interaction with other management functions and with the executive and legislative processes; human resources allocation, employee motivation and evaluation, manpower planning and forecasting; employee relations and affirmative action programs; career planning and development.

644. PUBLIC BUDGETING & FINANCIAL ADMINISTRATION (3)
Discusses budgeting processes and administrative control; various techniques of budgeting; line item, performance, program and zero-base; fiscal policy in implementing public policy; public revenues; sources and effect of principle taxes; intergovernmental aspects of revenue problems and revenue sharing.

650. PUBLIC POLICY PROCESS (3)
Examines the formation of the public policies which government agencies must carry out. Traces the process of problem identification, agenda setting, policy proposal and adoption. Includes both legislative and regulatory policies. Explores the role of public managers as active participants in the policymaking process.

660. INTEGRATIVE SEMINAR (3)
Considers the integration of knowledge attained in the total curriculum in relation to issues and problems. Intended to help the student to integrate his/her knowledge of public administration and to understand better his/her role in the public administration professions. Students identify the topic of their graduate project or subfields for their comprehensive examination and take initial steps toward preparation. This seminar is to be taken toward the end of a student's coursework.

ELECTIVE COURSES

612A. INTERGOVERNMENTAL RELATIONS (3)
Provides an in-depth examination and analysis of the dynamics of the legislative, political, and intergovernmental processes. Analyzes the relationships of different levels and branches of government. Lobbying and change agents, decision-making procedures, and media impacts are evaluated. Involvement in creating change and impacting decisions through the use of intergovernmental techniques is explored. The roles of administrators and legislators at local, state and federal levels are explored.

622A. POLICY IMPLEMENTATION & PROGRAM EVALUATION (3)
Public administration is fundamentally a discipline interested in identifying public problems and implementing successful solutions. The course focuses exclusively on strategies for successful implementation of policy solutions in a competitive policy environment and on mechanisms for evaluating program success.

622B. MANAGEMENT OF INFORMATION RESOURCES (3)
Examines the history, development and applications of Information Resources (IR) in the public sector. Provides a framework for understanding the technologies, trends, and planning processes and emphasizes the development of an individualized approach to managing Information Resources. The role of information resources as an increasingly important management tool is examined.

632A. ORGANIZATIONAL LEADERSHIP (3)
Explores the theories and styles of leadership. Students become familiar with and work towards the incorporation of the traits and habits of effective leaders. The course reviews the necessary qualities required and the challenges and ethical dilemmas which are facing leaders in the public sector today.

632B. STRATEGIC MANAGEMENT (3)
Examines how managers guide their organization in establishing goals, setting priorities, coordinating disparate activities, and how they adjust to a changing environment. The class will produce actual strategic plans.

632C. COMMUNICATION IN PUBLIC ORGANIZATIONS (3)
Highlights the function of communication as the lifeblood of public and nonprofit organizations, examining the nature of communication issues as organizational culture, communication networks, and message distortion, communication climate, communication and conflict, new communication technologies and communication during crisis situations as these impact public and nonprofit organizations.

632D. MANAGEMENT OF NONPROFIT ORGANIZATIONS (3)
Designed to meet the needs of the professional administrator who works within the growing not-for-profit sector and also the governmental employee who may work in cooperation with non-profit sector. Governance through boards of directors, impacts of public policy, planning and policy formulation, funding and social marketing, effective partnership with business and government agencies, and challenges of motivation and leadership are examined.
642A. ETHICS AND PROFESSIONALISM (3)
Examines ethical issues and cases relevant to public administration. Focuses on professional relationships and responsibilities. Analyzes wider questions of public power, violence, deception, and justice for their important relevance to public administration. Prepares students to analyze and confront ethical challenges in their professional life.

642B. PUBLIC SECTOR LABOR RELATIONS (3)
This course is taught as an accelerated intensive study of labor-relations concepts and role-playing participation in labor-management negotiation and formal arbitration.

642C. PUBLIC ENTREPRENEURIAL MANAGEMENT (3)
Explores innovative responses by government agencies to the demands for more public services with fewer resources. New approaches to service delivery and financing are examined, such as rightsizing, empowerment strategies, leveraging community resources, impact measurement, and community-based performance assessment.

652A. ADMINISTRATIVE LAW (3)
An introduction to law and legal concepts, particularly the law and legal concepts pertaining to the administrative process at the federal, state and local levels. Topics covered include delegation of powers, rulemaking, administrative adjudication, due process requirements in the investigatory and hearing phases of administrative proceedings, alternative legal means available for carrying out agency functions, remedies/checks against abuses of administrative power, and legal mechanisms aimed at protecting the integrity of the administrative process.

GRADUATE PROJECT/COMPREHENSIVE EXAM

697S. COMPREHENSIVE EXAMINATION PREPARATION (3)
Students selecting this option prepare for examination in General Public Administration and in two specialized subfields.

698S. GRADUATE PROJECT (3)
The graduate project is an “applied thesis” that combines concepts from public administration literature with practical problems and application, often in connection with a student’s own agency or career specialty.

699S. INDEPENDENT STUDY (1-3)

ADVANCED ELECTIVE SERIES (TUTORIALS)
MPA 611, 621, 631, 641, 651, 661
Tutorials are offered only occasionally in cases in which a core course cannot reasonably be taken as a seminar class or when there is justification for extended study of an area subsequent to taking the corresponding seminar.
RADIO-TELEVISION-FILM

Chair: Judith Marlane

COLLEGE OF ARTS, MEDIA, AND COMMUNICATION
Department Office: Speech Drama 140
Phone: (818) 677-3192
Secretary: Mary Hendriks

FACULTY: Lili Berko, Eric Edson, Bob Gustafson, Karen Kearns, Temma Kramer, Alexis Krasilovsky, Frederick Kuretksi, Ants A. Leps, Judith Murlane, Kenneth Portnoy, John Schultheiss, Jonathan Stahl, Michelle Stanton, Nate Thomas, Thelma Vickroy

EMERITUS FACULTY: John Allyn, Alan Armer, Bertram Barer, Ben Brady, Thomas Burrows, Emory Johnson, Charles Lynch, Sidney Salkow, Donald Wood

GRADUATE ADVISOR: Lili Berko


ACADEMIC ADVISEMENT: Undergraduate advisors for students interested in Media Theory and Criticism are Lili Berko, Ants Leps, and John Schultheiss; for Screenwriting, Eric Edson, Alexis Krasilovsky, Kenneth Portnoy, and Jonathan Stahl; for Radio-TV-Multimedia Production, Karen Kearns, Ants Leps, Jon Stahl, and Thelma Vickroy; for Film Production, Temma Kramer, Alexis Krasilovsky, Frederick Kuretksi, and Nate Thomas; for Electronic Media Management, Bob Gustafson, and Michelle Stanton.

The Radio-TV-Film Department is affiliated with the University Film and Video Association, the Society for Cinema Studies, the Broadcast Education Association and the National Association of Broadcasters. It has founded KCSN(FM), a Public Radio station, 88.5 MHz, serving listeners in the San Fernando and Santa Clarita Valleys. Students may earn upper division credit for radio experience at KCSN. Majors also utilize television and film studios as part of their laboratory and theoretical instruction. The Radio-TV-Film Department administers the CSUN Center for Telecommunication Studies, housed in SD 140.

THE MAJOR: The Radio-TV-Film major provides students with academic and professional training for careers in the entertainment industries and non-commercial/corporate media fields. The major prepares students for creative and management careers in commercial or educational radio, television, film, and multimedia positions, as well as related scholarly areas. The program is strongly committed to a balance between theoretical and practical education.

CAREERS: Some specific career choices for the radio-television-multimedia-film major include the following: Screenwriters or writers for television and film write dramatic scripts for motion pictures or television; news; scripts for commercials; promotional and public service announcements; and continuity material to introduce and connect various segments of musical, news, variety, magazine, and sports programs. They may work directly for a studio, station, or network; work on a free-lance basis; or may be under contract to independent production companies. Those involved in radio, television, multimedia, or film production create, supervise, or assist in the entire range of activities in developing and executing projects. Creative occupations in this area include the selection of stories, talent, and materials; art, set, and lighting design; directing; cinematography and camera operation; audio recording and mixing; live television switching or editing, film editing; and other production and post-production technical functions. Positions are available in commercial film studios, independent production houses and studios, broadcast stations and networks, cable operations, government agencies, hospitals, business corporations, educational institutions, and other organizations with audiovisual and multimedia facilities. Multimedia specialists are involved in the research, design, production, and execution of both linear and interactive projects for public schools, publishing companies, health institutions, government agencies, military operations, business, and the entertainment industries. Media management positions include broadcast station and network management, business and financial administration, programming operations, sales, and advertising. Film and multimedia management opportunities include marketing, promotion, distribution, and exhibition. Writing, production, and management careers also can lead to studio and independent producing of the coordination of all elements involved in the creation and distribution of any

RADIO-TV-MULTIMEDIA PRODUCTION OPTION: Pre-production, production, and post-production techniques for all electronic media formats encompassing directing and all other creative aspects of studio and field production.

FILM PRODUCTION OPTION: Conceptualization, production, directing, editing, and distribution of film projects for both entertainment and informational purposes.

ELECTRONIC MEDIA MANAGEMENT OPTION: Operational and management aspects of independent, studio, and network electronic media including business structures, personnel, budgets, advertising, sales, research, and regulation of the media industries.

The mission of all options is to instill in students the knowledge, expertise, and creative skills that will help them to achieve their goals in the fields of radio, television, film, or multimedia, and to promote the critical, analytical, and conceptual thinking that will enrich their academic and professional careers. The department also administers the CSUN Center for Telecommunication Studies, housed in SD 140.

DEPARTMENT PROGRAMS: The RTVF major prepares students in academic and creative aspects of the media disciplines through study in one of five options:

MEDIA THEORY AND CRITICISM OPTION: History, theory, and critical analysis of the culture of film and electronic media providing a background for all professional training, with specific preparation for careers in teaching or research.

SCREENWRITING OPTION: Research, structure, and writing for dramatic and non-dramatic scripts for film, radio, television, and multimedia
entertainment or noncommercial media product. This includes development and fund-raising, securing broadcast and film rights for a project, hiring of talent for the project, overseeing writing and production aspects, arranging for distribution and exhibition.

Media Theory and Criticism graduates find positions as teachers, critics, and researchers. Students often go on to graduate school to prepare for teaching careers or advanced research positions. These include marketing and audience research, ratings, media buying, assessing programming strategies, and evolving media and technology strategies and expansion plans.

**REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE**

**REQUIREMENT FOR ADMISSION TO THE MAJOR**

Because admission into the RTVF program is limited, students must complete the Pre- RTVF major before enrolling in the upper division RTVF major. Students must apply for admittance into the Pre RTVF program as follows: All incoming Freshmen and transfer students from other institutions must apply for admission on or before November 1 for the following academic year. Change-of-major requests from CSUN students will be received starting February 15 each year.

After successfully completing all requirements for the Pre RTVF major listed below, and after completing at least 60 units of college/university-level course work, students may apply for admission into the upper division RTVF major by submitting to Admissions and Records a Change of Major Form signed by the Department Chair.

As noted in the next section, there are also grade requirements for admission into the Screenwriting and Film Production Options.

Additionally, students applying for the Film Production Option must submit a portfolio consisting of photographs and writing samples, for review and approval by the Film Production faculty. Note that students entering the RTVF upper division major must apply for admittance to RTVF 250 as a prerequisite for RTVF 250.

**SPECIAL GRADE REQUIREMENT**

*Note:* Students must complete each of the four required courses in the Pre RTVF major (listed in the Lower Division Required Courses) with a grade of C- or better.

Students intending to enter the Screenwriting Option must pass RTVF 220 with a grade of B- or better. Students intending to enter the Film Production Option must pass RTVF 250 with a grade of B- or better.

Students completing the lower division Pre RTVF major and applying for RTVF 250 major must have an average G.P.A. of 2.0 in all CSUN courses and transfer credits.

Students admitted to the upper division RTVF major must complete the 33 upper division units with a grade of C- or better in each course.

**LOWER DIVISION REQUIRED COURSES (12-15 UNITS)**

The following four lower division courses constitute the **PRE RTVF MAJOR program:**

- RTVF 100 Introduction to Mass Communication Arts ...
- RTVF 210 Television-Film Aesthetics
- RTVF 220 Foundations of Media Writing

Select one of the following:

- RTVF 230 Fundamentals of Radio Production
- RTVF 240 Fundamentals of Television Production
- RTVF 250 Fundamentals of Film Production

(Statement that ART 250 is a prerequisite for RTVF 250)

**UPPER DIVISION REQUIRED COURSES (12-15 UNITS)**

Before entering the upper division major, students must complete all requirements for the Pre RTVF major listed above. Pre RTVF major students may not enroll in upper division RTVF courses without the consent of the instructor.

Upon entering the RTVF upper division major, students must apply for admittance to one of RTVF’s five options.

To meet each option’s specific requirements, students must select 33 upper division units in consultation with a faculty advisor in that option. Note that advisement is mandatory for all RTVF majors. Each option provides an advisement form, available in the RTVF office, that lists both required and elective courses for the option.

To fulfill the Department’s commitment to critical thinking and research skills, each option will require one course such as RTVF 301, 319, 400, or 401.

Courses required for each option are as follows:

**MEDIA THEORY AND CRITICISM OPTION:**

Six units in RTVF or an allied field, with the approval of an advisor, as prescribed in the official departmental advisement form for Media Theory and Criticism.

- RTVF 309 Film as Literature
- RTVF 319 Criticism in Radio, TV, and Film
- RTVF 400 Media and Society

Select one of the following:

- RTVF 301 Design of the Media Message
- RTVF 401 Mass Communications Research

Select one of the following:

- RTVF 306 History of Broadcasting
- RTVF 310 History of American Cinema

Select one of the following:

- RTVF 315 New Directions in Electronic Media Systems
- RTVF 405 International Broadcasting

Select three of the following:

- RTVF 410 Advanced Film Theory: Studies in Film Style
- RTVF 412 Analysis of Classic Film Makers
- RTVF 413 Women as Filmmakers
- RTVF 415 International cinema
- RTVF 416 The Documentary Tradition in Film and Video

**SCREENWRITING OPTION:**

Nine units in RTVF or an allied field, with the approval of an advisor, as prescribed in the official departmental advisement form for Screenwriting.

- RTVF 309 Film as Literature
- RTVF 320 Writing for Film and Television
- RTVF 420 Screenplay Adaptation
- RTVF 425 Advanced Screenwriting

Select one of the following:

- RTVF 301 Design of the Media Message
- RTVF 319 Criticism in Radio, TV, and Film

Select three of the following:

- RTVF 305 History of Broadcasting
- RTVF 310 History of American Cinema

Select one of the following:

- RTVF 327 Writing for Industrial Media
- RTVF 428 Writing Screenplay Comedy

Select one of the following:

- RTVF 350 Film Directing
- RTVF 440 Theory & Techniques of Television Directing

**RADIO-TV-MULTIMEDIA PRODUCTION OPTION:**

- RTVF 305 History of Broadcasting

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406 RADIO-TELEVISON-FILM 2000-2002
Select one of the following:
RTVF 301 Design of the Media Message...............3
RTVF 319 Criticism in Radio, TV, and Film...............3
RTVF 400 Media and Society..............................3

Select one of the following:
RTVF 315 New Directions in Electronic Media Systems........3
RTVF 487 Social controls and Regulation of Electronic Media...............3

Select one of the following:
RTVF 330 Advanced Audio Production........................3
RTVF 340 Advanced Video Production & Editing..............3

Select one of the following:
RTVF 320 Writing for Film and Television..................3
RTVF 327 Writing for Industrial Media......................3

Select one of the following:
RTVF 361 Computing for Multimedia........................3
RTVF 362 Corporate and Instructional Media...............3
RTVF 480 Electronic Media Management......................3

A. RADIO PRODUCTION SEQUENCE

Six units in RTVF or an allied field, with the approval of an advisor, as prescribed in the official departmental advisement form for Radio-TV-Multimedia Production: Radio Sequence. Select three of the following:
RTVF 384 Electronic Media Advertising........................3
RTVF 401 Mass Communications Research......................3
RTVF 475 Audience Analysis................................3
RTVF 481 Network Practices..................................3
RTVF 482 Network Program Development....................3

B. TELEVISION PRODUCTION SEQUENCE

Six units in RTVF or an allied field, with the approval of an advisor, as prescribed in the official departmental advisement form for Radio-TV-Multimedia Production: Television Sequence. Select three of the following:
RTVF 341 Single-Camera Video Production and Editing........3
RTVF 440 Theory and Techniques of Video Production and Editing........3
RTVF 441 Directing the TV Documentary.....................3
RTVF 442 Directing the TV Drama/Comedy....................3
RTVF 443 Magazine Format Video Production................3

C. MULTIMEDIA PRODUCTION SEQUENCE

RTVF 341 Single-Camera Video Production and Editing........3
RTVF 361 Computing for Multimedia........................3
RTVF 461 Interactive Multimedia Development..............3
RTVF 464 Multimedia Design.................................3
RTVF 468 Multimedia Production..............................3

FILM PRODUCTION OPTION:

With the approval of an advisor, as prescribed in the official departmental advisement form for Film Production.
RTVF 310 History of American Cinema......................3
RTVF 319 Criticism in Radio, TV, and Film...............3
RTVF 350 Film Directing................................3
RTVF 351 Anatomy of Film Producing.........................3
RTVF 355 Cinematography and Editing.........................3

Select one of the following:
RTVF 356 Advanced Film Editing................................3
RTVF 357 Advanced Cinematography............................3

Select two of the following:
RTVF 410 Advanced Film Theory: Studies in Film Style........3
RTVF 412 Analysis of Classic Film Makers....................3
RTVF 413 Women as Filmmakers................................3
RTVF 415 International cinema................................3
RTVF 416 Documentary Tradition in Film & Video............3

Select one of the following:
RTVF 320 Writing for Film and Television..................3
ART 350 Photography II......................................3

Select one of the following:
RTVF 329C Program Production................................3
RTVF 494 Internship.............................................3

Select one of the following:
RTVF 452 Film Production.......................................3
RTVF 453 Advanced Film Production...........................3

ELECTRONIC MEDIA MANAGEMENT OPTION:

Six units in RTVF or an allied field, with the approval of an advisor, as prescribed in the official departmental advisement form for Electronic Media Management.
RTVF 305 History of Broadcasting............................3
RTVF 315 New Directions in Electronic Media Systems........3
RTVF 362 Corporate and Instructional Media...............3
RTVF 480 Electronic Media Management......................3

Select one of the following:
RTVF 301 Design of Media Message............................3
RTVF 401 Mass Communications Research......................3

Select four of the following:
RTVF 384 Electronic Media Advertising......................3
RTVF 405 International Broadcasting........................3
RTVF 466 Administration of Educational Media Programs........3
RTVF 475 Audience Analysis................................3
RTVF 481 Network Practices..................................3
RTVF 482 Network Program Development....................3
RTVF 487 Social Controls and Regulation of Electronic Media...............3

TOTAL UNITS IN THE MAJOR (45 UNITS)

All options require 45 Units, except Film Production requires 48 Units (due to the prerequisite of ART 250.)

GENERAL EDUCATION (52 UNITS)

There are no overlaps or waivers.

ADDITIONAL UNITS

In addition to the Pre-major (12 units in all options except Film Production, which is 15 units), upper division RTVF major (33 units), General Education (52 units), and Title 5 (6 units), students in Media Theory and Criticism, Screenwriting, Radio-TV-Multimedia Production, or Electronic Media Management Options must complete an additional 21 units. Film Production Option majors must complete an additional 18 units.

TOTAL UNITS REQUIRED FOR THE DEGREE: 124

THE GRADUATE PROGRAM

A Master of Arts Degree in Mass Communication is available to students in two areas of emphasis: Screenwriting and Critical Studies in Cinema and Electronic Media.

The graduate program presupposes strong undergraduate preparation in the two areas of emphasis or equivalent professional experience in the mass media. The Master’s program calls for more intensive study, focuses on evaluation of media performance and the development of creative, analytic and research techniques culminating in a theoretical thesis or comprehensive examination for Critical Studies students and a screenplay/thesis project for Screenwriting students. The program offers no studio-based production instruction.
### REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

**REQUIREMENTS FOR ADMISSION TO THE PROGRAM (CLASSIFIED STATUS):**

1. A bachelor's degree: Students lacking a sufficient academic or professional background in Television or Film will be expected to expand their knowledge of those fields through enrolling in courses assigned by the graduate advisor.
2. A 3.0 grade point average in an undergraduate major and in all Radio-TV-Film courses taken.
3. A 3.0 grade point average for all undergraduate work undertaken. Candidates with outstanding professional records may seek, with substantial justification, an exception to conditions 1 and 2 above.
4. Completion of general requirements for classified graduate status:
   - A. An above average score on the GRE verbal portion.
   - B. A passing score on the Writing Proficiency Examination administered by California State University.
5. Submission of three letters of recommendation.
6. Admission into the Screenwriting area requires the submission of an original screenplay, but other works may be considered at the discretion of the Admissions committee. Admissions into the Critical Studies area of emphasis requires the submission of a critical, theoretical or historical essay. All writing samples must be in English.
7. Presentation of autobiographical statement which discusses your educational objectives and purpose plus an indication of graduate emphasis preference and a resume containing a review of past educational and professional experience.

**SPECIAL REQUIREMENTS:**

A minimum of 30 units of approved graduate work is required for the degree. University regulations require that at least 18 units of the program shall be 500- and 600-level courses. Students applying more than 36 units of course work to their graduate program must take at least 70 percent of their courses in 500- and 600-level classes. The thirty minimum units shall be comprised of the following:

### REQUIRED COURSES (18 UNITS)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MCOM 500</td>
<td>Studies in History (Core)</td>
<td>3</td>
</tr>
<tr>
<td>MCOM 501</td>
<td>Studies in Theory (Core)</td>
<td>3</td>
</tr>
<tr>
<td>MCOM 692</td>
<td>Research Practicum</td>
<td>0</td>
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<tr>
<td>MCOM 697</td>
<td>Comprehensive exam</td>
<td>3</td>
</tr>
<tr>
<td>MCOM 698</td>
<td>Thesis or Thesis Project</td>
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**EMPHASIS SEMINAR: SCREENWRITING**

<table>
<thead>
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<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>RTVF 425</td>
<td>Advanced Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 525</td>
<td>Seminar in Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 602</td>
<td>Seminar in Research Methods</td>
<td>3</td>
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</table>

**EMPHASIS SEMINAR: CRITICAL STUDIES IN CINEMA & ELECTRONIC MEDIA**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MCOM 512</td>
<td>Seminar in Film Theory</td>
<td>3</td>
</tr>
<tr>
<td>MCOM 532</td>
<td>Seminar in Analysis of Media Performance</td>
<td>3</td>
</tr>
<tr>
<td>MCOM 602</td>
<td>Seminar in Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

### ELECTIVES (6-16 UNITS)

Students shall take these units with the prior approval of the Graduate advisor. These must be 400, 500, or 600 level courses in an analytic, professional or methodological area in RTVF or related disciplines. Students may not register for more than three 400 level courses.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MCOM 512</td>
<td>Seminar in Film Theory</td>
<td>3</td>
</tr>
<tr>
<td>MCOM 532</td>
<td>Seminar in Analysis of Media Performance</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 595A-I</td>
<td>Studies in Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>MCOM 622</td>
<td>Department Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>MCOM 699</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>MCOM 694</td>
<td>Internships</td>
<td>1-3</td>
</tr>
<tr>
<td>MCOM 696</td>
<td>Directed Research</td>
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<tr>
<td>RTVF 428</td>
<td>Writing Screenplay Comedy</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 430</td>
<td>Screenplay Adaptation</td>
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</tbody>
</table>

### TOTAL UNITS REQUIRED FOR DEGREE: 30

### COURSE LIST

#### LOWER DIVISION

**100. INTRODUCTION TO MASS COMMUNICATION ARTS (3)**
Survey of the fields of radio, television, and film as they relate to other mass media. Comparative analysis and evaluation, including historical, societal, legal, and individual considerations. Not open to students with credit in Journalism 100. (Available for General Education, Applied Arts and Sciences.)

**210. TELEVISION-FILM AESTHETICS (3)**
TV and film communicative art forms. Representative films and television programs are exhibited and analyzed. (Available for General Education, Humanities.)

**220. FOUNDATIONS OF MEDIA WRITING (3)**
Prerequisite: Completion of lower-division writing requirement. A basic introductory course in writing for the film and electronic media, with emphasis on preparing scripts in proper formats. A writing evaluation component is included as part of the course requirement. Required of all pre-majors.

**230. FUNDAMENTALS OF AUDIO PRODUCTION (3)**
An introductory course in audio production. Training in digital production, audio console operation, use of tape recorders and microphones, tape editing, program formats, and announcing. Lecture 2 hours, lab 2 hours.

**240. FUNDAMENTALS OF VIDEO PRODUCTION (3)**
Basic introduction to all aspects of television studio production, audio and video; microphones, audio recorders, cameras, lenses, switching, and lighting equipment. Principles of graphics and scenery. Laboratory with accompanying lecture, 6 hours.

**250. FUNDAMENTALS OF FILM PRODUCTION (3)**
Prerequisite: ART 250. An introductory course in Television-Film Production. The use of film as a creative medium and an art form in mass communication, using 16mm production techniques. Lab 6 hours.

### UPPER DIVISION

**301. DESIGN OF THE MEDIA MESSAGE (3)**
Prerequisite: Completion of lower division writing requirement. Fundamentals of researching and designing the informational media program. Principles of determining
audience needs, research, analysis and design, and program structure as they apply to documentaries, motivational programs, and other educational and propaganda messages. Regular written assignments will be required.

305. HISTORY OF BROADCASTING (3)
Prerequisite: RTVF 100. Radio and television broadcasting: beginnings, development, commercial and noncommercial support, regulations, impact on society, programming, and future of telecommunications.

309. FILM AS LITERATURE (3)
Prerequisite: Completion of the lower-division writing requirement. A survey of the art of the cinema in order to establish a unique visual literature with its own critical standards. Feature films of various types and from diverse sources will be screened, with comparisons being made between literary source and the final film production. (Available for General Education, Humanities.)

310. HISTORY OF AMERICAN CINEMA (3)
Prerequisites: Completion of lower division writing requirement and RTVF 100. History of the development of American Cinema: formats, film aesthetics, societal impact, evolution as an entertainment medium. Screening and evaluation of representative films.

315. NEW DIRECTIONS IN ELECTRONIC MEDIA SYSTEMS (3)
Prerequisite: RTVF 100. An examination of electronic media systems for program production and dissemination, as well as implications for producers, regulators, and society as a whole.

319. CRITICISM IN RADIO, TV, AND FILM (3)
Prerequisite RTVF 210 and lower division writing requirement. Analysis of social, cultural, literary and moral aspects of radio, television, and film. Examination of media as distributors of information, propaganda, and entertainment. Regular written assignments will be required, the writing of critical analyses.

320. WRITING FOR FILM AND TELEVISION (3)
Prerequisite: RTVF 220. Basic dramatic screenwriting techniques for television and film. Disciplines of plot construction, characterization and dialogue are examined.

327. WRITING FOR INDUSTRIAL MEDIA (3)
Prerequisite: RTVF 220. The theory, history and principles of writing industrial film and television programs for business, government, and other organized groups.

329ABC. PROGRAM PRODUCTION (1-3)
Prerequisite: Consent of instructor. RTVF 230 and RTVF 330 will be required for all students working at KCSN. Principles of management, programming, and production with practical application. Students must work at least three hours a week for one unit. A maximum of six units allowable. Grading is on a Credit/No Credit basis.

330. ADVANCED AUDIO PRODUCTION (3)
Prerequisite: RTVF 230. Techniques of studio and remote audio production. Creation of radio magazine features. Training in use of sound effects, dramatic production, multitrack recording, digital production and mixing. Laboratory with accompanying lecture, 4 hours.

340. ADVANCED VIDEO PRODUCTION AND EDITING (3)
Prerequisite: RTVF 240. An advanced course in the creative use of television studio cameras, lighting, sound, computer graphics and editing principles in television productions including interview, and dramatic formats. Both group and individual projects are structured around theory and practice. Nine hours of laboratory per week.

341. SINGLE-CAMERA VIDEO PRODUCTION AND EDITING (3)
Prerequisite: RTVF 340. An overview of the theory and practice of electronic field production. This course examines the technical and aesthetic requirements of single-camera video production and editing. Six hours of lecture and laboratory activity per week.

350. FILM DIRECTING (3)
Prerequisite: RTVF 250. Examination of basic creative elements and technical approaches necessary to achieve professional excellence in film direction. Lab 6 hours.

351. ANATOMY OF FILM PRODUCING (3) (Formerly 371)
Prerequisite: RTVF 240 or RTVF 250. Organization and management for both independent and studio film production. Basic business procedures, financing, budgeting, distribution, exhibition, legal matters, the development of entrepreneurial skills, and structure, practices, and current trends of the industry.

355. CINEMATOGRAPHY AND EDITING (3)
Prerequisite: RTVF 250. An advanced course in the creative use of the motion picture camera, and editing principles in television-film production, dramatic film, documentaries, educational and instruction formats. Six hours of laboratory per week.

356. ADVANCED FILM EDITING (3)
Prerequisite: RTVF 355. An advanced course in post-production film technique and aesthetics, including the analysis, application and mastery of editing styles. Six hours of laboratory per week.

357. ADVANCED CINEMATOGRAPHY (3)
Prerequisite: RTVF 355. An advanced course in film production techniques and aesthetics, including detailed examination of film grammar as it is created in the camera, lighting technology and practice, camera technology, optics of lenses and their effect on aesthetics, principles of composition, new technologies (computerized application) and special cinematic situations (infrared, underwater and macro-cine). Six hours of laboratory per week.

361. COMPUTER FUNDAMENTALS FOR MULTIMEDIA (3)
Prerequisite: RTVF 315 or basic computer literacy. Provides a general introduction to computers and their use in multimedia design, production, distribution, and in desktop video. Covers computer fundamentals, the use of the graphic user interface, and provides an overview of the use of computers in multimedia and familiarizes students with appropriate software. Course meets 6 hours per week.

362. CORPORATE AND INSTRUCTIONAL MEDIA (3)
Prerequisites: RTVF 100. Study of contemporary practices in corporate, school, medical, and civic media, as they relate to educational, training, and motivational purposes. Examination of audience needs, objectives, design and writing, production, distribution, utilization, and evaluation.

384. ELECTRONIC MEDIA ADVERTISING (3)
Prerequisite: RTVF 100. Advertising as economic support for broadcast media. Audience, market surveys, network, affiliate rate structures. Impact of Radio-TV advertising on local and national economy.

395. SENIOR PROJECTS (3)
Prerequisites: Senior status and approval of project by department chair. Independent work with faculty supervision in radio-television-film.
425. ADVANCED SCREENWRITING (3)
Prerequisite: RTVF 420. Advanced problems in writing drama, program specials.

428. WRITING SCREENPLAY COMEDY (3)
Prerequisite: RTVF 220. An examination of the theory, spectrum and structures of comedy as well as the writing of comedy scenes and screenplays.

440. THEORY & TECHNIQUES OF TELEVISION DIRECTING (3)
Prerequisite: RTVF 240. Theories and techniques of TV directing. Unique characteristics of video as they affect the art of directing. Screening and critique of representative TV programs.

441. DIRECTING THE TV DOCUMENTARY (3)
Prerequisite: RTVF 341. Advanced television directing course emphasizing educational and documentary formats. Both studio and remote production assignments. Laboratory with accompanying lecture, 6 hours.

442. DIRECTING THE TV DRAMA/COMEDY (3)
Prerequisites: RTVF 340 and 440. Advanced television directing course emphasizing dramatic formats. Producing and directing live and recorded studio situation comedy and drama programs. Nine hours of laboratory per week.

443. MAGAZINE FORMAT VIDEO PRODUCTION (3)
Prerequisite: RTVF 341. This course examines the methods and equipment which are utilized in the design and production of “magazine format” video production. Such programs combine scripted information, spontaneous discussion and pre-edited videotape segments. Six hours of class per week, three units.

452. FILM PRODUCTION (3)
Prerequisite: RTVF 356 or 357 or concurrent enrollment in either. Applied theories and techniques of film productions. Laboratory with accompanying lecture, 9 hours.

453. ADVANCED FILM PRODUCTION (3)
Prerequisite: RTVF 356 or 357 and approval of instructor. Application of advanced theories and techniques of film production, and participation in finished film productions. Laboratory with accompanying lecture, 9 hours.

461. INTERACTIVE MULTIMEDIA DEVELOPMENT (3)
Prerequisite or Corequisite: RTVF 362. Completion of lower division writing requirement. Overview and analysis of computer-based interactive multimedia and hypermedia systems, based on videodiscs, compact discs, and other interactive recording, delivery, and media manipulation processes. Introduction to design parameters, premastering, and implementation issues for academic corporate, and consumer systems. Regular written assignments will be required.

464. MULTIMEDIA DESIGN (3)
Prerequisite or Corequisite: RTVF 362. Concurrent enrollment required in RTVF 468. Study of the basic theories and techniques of multimedia production applied to the development of a project that will be produced in RTVF 468. Covers establishment of goals and objectives, program design and production practices, project validation, and utilization.

465. PUBLIC BROADCASTING (3)
Prerequisite or Corequisite: RTVF 362. Study of current issues and problems in Public Broadcasting—federal funding, corporate underwriting, network relationships, programming controversies, and community conflicts.
466. ADMINISTRATION OF EDUCATIONAL MEDIA PROGRAMS (3)
Prerequisite or Corequisite: RTVF 362. Analysis of the educational and management factors inherent in educational media programs, staff organization, budget controls, policy determination, community relations, etc. Administration of ETV and ITV systems, AV centers, industrial TV operations.

468. MULTIMEDIA PRODUCTION (3)
Concurrent enrollment in RTVF 464. Production of a multimedia program designed in RTVF 464. Laboratory with accompanying lectures, 6 hours.

475. AUDIENCE ANALYSIS (3)
Prerequisite: RTVF 100. Lecture-discussion of mass audiences and the techniques used to study their wants, needs, motives, attitudes, opinions, and behavior. Survey of audience measurement techniques.

480. ELECTRONIC MEDIA MANAGEMENT (3)
Prerequisite: RTVF 100. Study of business problems of station operations. Stress placed upon case studies of stations.

481. NETWORK PRACTICES (3)
Prerequisites: RTVF 100. Network as unique development in broadcasting, its role in distribution of information, and the national economy.

482. NETWORK PROGRAM DEVELOPMENT (3)
Prerequisites: RTVF 100. Theoretical and practical problems in producing current network television programs.

487. SOCIAL CONTROLS AND REGULATION OF ELECTRONIC MEDIA (3)
Prerequisites: RTVF 100. Legal and social controls in the regulation of electronic media including broadcasting, cable television, common carriers, communication satellites, MMDS, SMATV, and LPTV. Regulatory efforts of federal agencies such as the FCC, and controlling influences of public interest groups and the electronic media industry itself.

494A-F. INTERNSHIP (1-6)
RTVF MAJORS, approval through application and consent of instructor. Extensive on-the-job training in specific areas of Radio, TV, or Film production or administration. Maximum six units. (Available on CR/NC basis only.) An Academic Internship Course.

496A-Z. EXPERIMENTAL COURSES IN RADIO-TV-FILM (3)
Prerequisite: One year of appropriate lower division courses in RTVF. Experimental courses in Radio-TV-Film with course content to be determined.

499. INDEPENDENT STUDY (1-3)

500. THEORY AND HISTORY OF CINEMA AND ELECTRONIC MEDIA (3)
Prerequisite: Graduate status. Survey of the history of cinema/electronic media and cinema and electronic media theory and criticism beginning with the fifties and carrying through to the present.

501. THEORY AND HISTORY OF CINEMA AND ELECTRONIC MEDIA II (3)
Prerequisite: MCOM 500. Survey of the history of cinema/electronic media as well as cinema and electronic media theory and criticism, beginning with the fifties and carrying through to the present.

512. SEMINAR IN CINEMA AND CONTEMPORARY MEDIA THEORY (3)
Prerequisite: MCOM 500. Seminar in specific cinema and/or electronic media theory. Includes analysis and evaluation of the works of major cinema and media theorists.

525. SEMINAR IN SCREENWRITING (3)
Prerequisites: RTVF 425 and MCOM 501. Identification and analysis of the student writer’s creative strengths and weaknesses. Format includes exercises and original screenplay material specifically designed to strengthen narrative skills.

532. SEMINAR IN ANALYSIS OF MEDIA PERFORMANCE I (3)
Prerequisite: MCOM 500. Extended application of research and evaluation techniques as used in mass communication research to describe the quality of broadcast and film media performance. (Offered by the Department of Radio-TV-Film.)

594A-F. INTERNSHIP (1-6)
Prerequisites: Mass Communication 602 and approval of graduate advisor. Intensive on-the-job training beyond the entry level in radio, television, and allied industries.

595A-I. STUDIES IN MASS COMMUNICATION (3)
Prerequisite: MCOM 500. Supervised graduate studies in Radio-TV-Film Mass Communication. Faculty members will direct the studies of a small group of students in the following general areas with exact content to be determined: A-Advanced Research; B-History; C-Theory; D-Writing; E-Radio-TV Production; F-Film; G-Educational Media; H-Management; I-International Communication. (Offered by the Department of Radio-TV-Film.)

602. SEMINAR IN RESEARCH METHODS (3)
(Formerly RTVF 502)
Prerequisite: MCOM 500. Scope and methods of research in mass communication, including review of literature, statement of research problem, research design, collection and analysis of data and information, and writing the research report. (Offered by the Department of Radio-TV-Film.)

620. DEPARTMENT COLLOQUIUM (3) (Formerly RTVF 522)
Prerequisite: MCOM 500. An intensive study of contemporary issues in Mass Communication by Graduate Faculty on a rotating basis. (Offered by the Department of Radio-TV-Film.)
692. RESEARCH PRACTICUM (3) (Formerly RTVF 592)
Prerequisites: MCOM 501 and 602. Instruction and
dividualized guidance in the preparation of thesis or project
proposals, including introduction, literature and
methodology. (Offered by the Department of Radio-TV-Film.)

696. DIRECTED GRADUATE RESEARCH (3)
(Formerly RTVF 596)

698. THESIS OR GRADUATE PROJECT (1-6)
(Formerly RTVF 598)
Prerequisites: MCOM 501, 602, and approval of graduate
advisor.

697A. COMPREHENSIVE EXAMINATION (1)
Written and oral examination in the major field (Mass
Communication).

699. INDEPENDENT STUDY (1-6) (Formerly RTVF 599)
Prerequisites: MCOM 500, 602, and approval of sponsoring
faculty member.
RELIGIOUS STUDIES
Chair: Crerar Douglas

COLLEGE OF HUMANITIES
Department Office: Faculty Office Building 224
Phone: (818) 677-3392
Secretary: Linda Jones

FACULTY: Crerar Douglas (Chair), James Goss, Howard Happ, John Hartzog, Phyllis Herman, Amir Hussain, Linda Lam-Easton, Lara Medina, Mokusen Miyuki, Jody Myers, F. Patrick Nicholson

EMERITUS FACULTY: William Kramer, Thomas T. Love, Robert D. Shofner

UNDERGRADUATE ADVISORS: Full-time faculty

ACADEMIC ADVISEMENT: Each major and minor will be assigned an advisor after consultation with the Chair. Advisors are available to students at least three scheduled hours per week and by appointment. Major advisement is required prior to registration each semester.

THE MAJOR: The Religious Studies Major--the standard major or contract option major--is designed to provide a liberal arts education with an emphasis upon the study of religious phenomena. A major will be able to interpret religious texts, think both empathetically and critically about conflicting religious claims, acquire knowledge of the history of more than one major religious tradition, apply intercultural methods to religious inquiry and analysis, and articulate a perception of one’s role in society, in both career and public service options. Skills gained in this process are applicable to many other areas in the academic, business, and professional spheres. The Religious Studies Major provides an excellent basis from which to pursue careers requiring imagination, problem-solving, communication skills, and awareness of human diversity.

REQUIREMENTS FOR THE B.A. DEGREE

LOWER DIVISION REQUIRED COURSES (6 UNITS)
Select two courses from the following:
RS 100 Introduction to Religious Studies ......................3
RS 101 The Bible ..............................................................3
RS 150 World Religions ...................................................3
RS 160 Religion in Western Civilization .......................3

UPPER DIVISION (36 UNITS)
RELIGION IN THE UNITED STATES (6 UNITS)
Select two courses from the following:
RS 305 American Sects and Cults ................................3
RS 306 Minority Religions of America ...............................3
RS 307 Religion in America ................................................3
RS 308 Native American Religions ....................................3
RS 378 American Jewish Experience .................................3

CURRENT ISSUES IN RELIGIONS (6 UNITS)
Select two courses from the following:
RS 300 Religion and Society ..............................................3
RS 302 Modern Religious Ethics ........................................3
RS 303 Religion and Personality .........................................3
RS 304 Women and Religion ..............................................3
RS 310 Religion and Literature ...........................................3
RS 311 Religion and Film ..................................................3
RS 313 Religion and Art ....................................................3
RS 336 Contemporary Religious Thought .........................3
RS 361 Contemporary Ethical Issues .................................3

RELIGIOUS TRADITIONS (9 UNITS)
Select three courses from the following:
JS 300 Humanities in Jewish Society ..............................3
RS 345 Christianity ..........................................................3
RS 365 Islam .................................................................3
RS 380 Asian Religions ....................................................3
RS 385 Hinduism .............................................................3
RS 390 Buddhism ............................................................3
RS 426 Taoism .................................................................3

SAVED TEXTS OF THE WORLD (3 UNITS)
Select one course from the following:
RS 320 Hebrew Bible (Old Testament) ..............................3
RS 325 New Testament .....................................................3
RS 327 Teaching of Jesus ..................................................3
RS 375 Classical Judaic Texts ............................................3
RS 383 Asian Religious Texts ............................................3

UPPER DIVISION ELECTIVES (9 UNITS)
Choose from any upper division Religious Studies courses upon consultation with an advisor. Two years of the study of a foreign language, at the university level (or its equivalent) may be used for one 3 unit elective in the major.

TUTORIAL: RS 498C (3 UNITS)
With approval of an advisor, students may apply Topics in Religion course (RS 396A-Z) to the appropriate category listed above. Individual Study (499 A-A) may be substituted. Consult with an adviser for approval.

CONTRACT OPTION (42 UNITS)
The contract option allows a student to design his/her own Religious Studies major that reflects that student’s specialized or interdisciplinary interests.

REQUIREMENTS:
A. A written outline of the proposed courses and a statement of expected outcomes or objectives.
B. A course of study that includes 42 units.
C. 36 of the required 42 units must be in upper division courses.
D. The other units must be taken in any other discipline.
E. Approval by a departmental advisor and the department chair.

Once the contract has been approved by the department, the written outline will be included in the student’s file and be the basis for determining whether or not a student completes the contract option in the major.

TOTAL UNITS IN THE RELIGIOUS STUDIES MAJOR (42 UNITS)

GENERAL EDUCATION (52 UNITS)

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (24 UNITS)

TOTAL UNITS REQUIRED FOR B.A. DEGREE: 124

REQUIREMENTS FOR THE MINOR

LOWER DIVISION REQUIRED COURSES
A. Choose two courses from the following (6 Units)
RS 100, RS 101, RS 150, RS 160

UPPER DIVISION REQUIRED COURSES
A. Religion in the United States (select one course) ..........3
RS 305, RS 306, RS 307, RS 308, RS 378
B. Current Issues in Religion (select one course) .................. 3
  RS 300, RS 302, RS 303, RS 304, RS 310, RS 311, RS 313,
  RS 356, RS 361
C. Sacred Texts of the World (select one course) .................. 3
  RS 320, RS 325, RS 327, RS 375, RS 383
D. Religious Traditions (select two courses) ......................... 6
  JS 300, RS 345, RS 365, RS 380, RS 385, RS 390, RS 426
With approval of an advisor, students may apply a Topics in
Religion course (RS 396A-Z) to the appropriate category
listed above.

TOTAL UNITS FOR THE MINOR (21 UNITS)

COURSE LIST

LOWER DIVISION

100. INTRODUCTION TO RELIGIOUS STUDIES (3)
A study of the elements of religion and selected
contemporary religious issues. The course will examine such
subjects as myth and ritual, the sacred and profane, dreams
and theophanies, priests and prophets, science and religion,
history and religion, the possibility of religious faith today.
(Formerly RS 100.)

101. THE BIBLE (3)
A survey of the basic content and major themes of the
Hebrew Bible (Old Testament), New Testament, and
Apocryphal writings. (Available for General Education,
Humanities.)

150. WORLD RELIGIONS (3)
A study of selected major world religions with emphasis on
tribal religions as well as the historic international faiths of
Asia and the Near East. The course investigates rituals,
ethics, institutional structures and the cultural ethos of
religions as well as their myths, doctrines and sacred texts.
(Formerly RS 150.)

160. RELIGION IN WESTERN CIVILIZATION (3)
A study of the role of religion in Western Civilization from
the Stone Age to the Renaissance. (Available for General
Education, Comparative Cultural Studies.)

230. INTRODUCTION TO HUMAN SEXUAL BEHAVIOR (3)
(Same as Anthropology, Biology, History, Psychology, and
Sociology 230) Prerequisite: Anthropology, Psychology or
Sociology 150. This course provides an introductory
overview of sexual function and sexual behavior. Emphasis
will be given to the historical and religious background of
the prevailing attitudes toward sex in our culture as well as
to current sexual practices from the perspective of
contemporary social science. Additional topics include
sexual values and ethics, love, legal aspects of sexual
behavior, and eroticism in American culture. An
interdepartmental team-taught course. May not be used for
General Education credit.

296A-Z. EXPERIMENTAL COURSES IN RELIGIOUS STUDIES (3)
Selected topics in Religious Studies with course content to
be determined.

UPPER DIVISION

General prerequisites: Students in upper-division courses
are expected to have competence in Religious Studies or in
related areas, satisfaction of this prerequisite to be
determined in consultation with an advisor.

300. RELIGION AND SOCIETY (3)
Prerequisite: Completion of the lower-division writing
requirement. A study of the relationship of religious views
and values to contemporary problems of individual and
group behavior, political responsibility, and international
order. Regular written assignments will be required.

301. RELIGIOUS ETHICS: HISTORY & INTERPRETATION (3)
An examination of religious ethics in the West to the
nineteenth century.

302. MODERN RELIGIOUS ETHICS (3)
An examination of religious ethics in the West to the
nineteenth and twentieth centuries.

303. RELIGION AND PERSONALITY (3)
A study of religion in relation to modern psychological,
psychoanalytic, and psychotherapeutic views of man.

304. WOMEN AND RELIGION (3)
Prerequisite: Completion of lower-division writing
requirement. An examination of religious views of women
in oral and literary cultures, focusing on the roles, symbols,
and concepts of women within an international, historical
framework. The course will also address women’s own
perspectives on religion, as reflected in historical sources
and in contemporary theology and religious life. Regular
written assignments will be required. (Available for General
Education, Humanities.)

305. AMERICAN SECTS AND CULTS (3)
A survey of some marginal religious groups in America.
Presentation, analysis and critique of the classic
church/sect/cult typology, including how these theories
apply to actual groups and how groups maintain beliefs
when rejected by dominant cultures.

306. MINORITY RELIGIONS OF AMERICA (3) (Formerly 210)
Prerequisite: Completion of lower-division writing
requirement. A survey of the religion of groups in America
who are marginal to or outside of the historically dominant
mainstream Protestant and Civil Religion Ethos. Regular
written assignments will be required. (Available for General
Education, Comparative Cultural Studies.)

307. RELIGION IN AMERICA (3)
Prerequisite: Completion of the lower-division writing
requirement; History 270 or 271 or equivalent. The
influence of religious traditions on the formation of
American (U.S.A.) culture and the modification of religious
traditions by the American context. Major American
religious thinkers and movements. Religion’s role in
shaping American thought, literature and ethos. Regular
written assignments will be required. (Available for General
Education, Humanities.)

308. THE RELIGIONS OF THE AMERICAN INDIANS (3)
The course will seek to understand the religion of the
American Indians in their respective tribal contexts. It will
inquire to what extent a common religious outlook existed
among the cultures occupying what is presently the United
States.

310. RELIGION AND LITERATURE (3)
Prerequisite: A general education course in literature and
completion of the lower-division writing requirement. A
study of literature to discover to what extent a religious tradition, or the lack of one, influences an author’s understanding of human existence. Writers who reflect Protestant, Roman Catholic, or Jewish traditions, as well as those who are informed by humanism or atheism, will be read and interpreted. Regular written assignments will be required. (Available for General Education, Humanities.)

311. RELIGION AND FILM (3)
Prerequisite: Completion of the lower-division writing requirement. The course examines how film artists address the major religious issues of our time: the nature of reality, sources of transcendence, the nature of good and evil in the self and society, the possibilities of renewal and hope. Regular written assignments will be required.

313. RELIGION AND ART (3)
A study of religion as portrayed in the fine and folk arts, emphasizing the role of the artist as interpreter of the great events and personalities of religious traditions.

320. HEBREW BIBLE (OLD TESTAMENT) (3)
A study of the literature and religion of ancient Israel through the Hellenistic area.

325. NEW TESTAMENT (3)

327. TEACHING OF JESUS (3)
Prerequisite: Completion of the lower division writing requirement. A literary and social analysis of the teaching of Jesus. Regular writing assignments will be required.

345. CHRISTIANITY (3)
Prerequisite: Completion of the lower-division writing requirement. Eastern Orthodox, Roman Catholic, Protestant, and non-traditional forms of Christianity compared and contrasted with one another in their historical and social contexts. Regular written assignments will be required.

355. MYSTICISM (3)
A study of mysticism as a distinct religious phenomenon, a major category of religious experience. To understand its character it may be studied either within the great Western religious traditions (Judaism, Islam, Christianity) or cross-culturally.

356. CONTEMPORARY RELIGIOUS THOUGHT (3)
Prerequisite: Completion of the lower-division writing requirement. A study of selected major writings in religious thought, with the aim of analyzing representative modern approaches to questions such as God and the world, faith and self-understanding, and belief and social consciousness. (Available for General Education, Humanities.)

361. CONTEMPORARY ETHICAL ISSUES (3) (FORMERLY 205)
Prerequisite: Completion of the lower division General Education Basic Subjects requirements, including Critical Reasoning. This course emphasizes the development of skills in critical thinking through analysis of such contemporary ethical issues as abortion, euthanasia, genetic engineering, sexual behavior, racism, gender bias, punishment, animal rights, the environment, and the relationships between religion and morality. (Available for General Education, Humanities.)

365. ISLAM (3)
Prerequisite: Completion of the lower-division writing requirement. A study of the varieties of Islamic civilization in their social contexts. Regular written assignments will be required. (Available for General Education, Comparative Cultural Studies.)

375. CLASSICAL JUDAIC TEXTS (3)
Prerequisite: Completion of the lower-division writing requirement. Examination of the great ideas and issues of ancient and medieval Judaism as reflected in its cultural tradition. Regular written assignments will be required.

376. MODERN JUDAIC HERITAGE (3)
Prerequisite: Completion of the lower-division writing requirement. Examination of the great ideas and issues of modern Judaism as reflected in its cultural tradition, represented in mystical literature, autobiographies, poetry, and essays from Zionist and modern religious movements. Regular written assignments will be required.

377. THE HOLOCAUST: RELIGIOUS RESPONSES (3)
Prerequisite: Completion of the lower-division writing requirement and a course in literature. The course examines several classic religious explanations for the tragic destruction of the Jews. It also studies contemporary responses to the Holocaust on the part of Jewish and Christian theologians, the Churches, and individual artists. Regular written assignments will be assigned.

378. AMERICAN JEWISH EXPERIENCE (3) (FORMERLY 213)
Prerequisites: Completion of American History requirement, or any course in Religious Studies; or Jewish Studies; completion of the lower-division writing requirement. This course seeks to describe the experience of the Jewish religion-ethnic community in America with reference to its own historic background and development, and the relationship of the community to the general American culture and to other particular subcultures or ethnic groups. It emphasizes distinctive Jewish values and customs and evaluates their contribution to American culture. It studies contrasts between religious and secular understandings of Jewishness, between different strands of Jewish immigration, and between Jewish experience in different regions of the United States. (Available for General Education, Comparative Cultural Studies.)

379. ZIONISM: RELIGIOUS AND SECULAR (3)
This course analyzes the religious, intellectual, and historical forces that have shaped Zionist thought, and includes an examination of the continuing debate over the meaning of Zionism and its practical implementation.

380. ASIAN RELIGIONS: COMMUNAL TRADITIONS & TRANSITIONS (3)
Prerequisite: Completion of the lower division writing requirement. This course will explore Asian religions by comparing human and divine religious figures cross-culturally. Comparison of the figures from the various cultures will provide a method to understand the nature of humanity and divinity in Asia. Daily class participation and regular written assignments will be required. (Available for General Education, Comparative Cultural Studies.)

383. ASIAN RELIGIOUS TEXTS (3)
Prerequisite: Completion of the lower division writing requirement. This course will explore Asian Religions by comparing the primary Sacred Texts of Asian cultures. The Sacred texts upon which Asian Religious expressions are based will be examined first in the specific cultural contexts of Japan, China and India. Comparison of the texts from the various cultures will allow the generation of models of Asian Religious order and answer problems concerning the nature of religion in Asia. Class participation and regular written assignments will be required.
385. HINDUISM (3)
Prerequisite: Completion of lower-division writing requirement. A study of the religious life of India from the Indus Valley civilization to the modern period. (Available for General Education, Comparative Cultural Studies.)

390. BUDDHISM (3)
Prerequisite: Completion of the lower-division writing requirement. A study of the fundamental concepts in Theravada and Mahayana Buddhism, e.g., nirvana, enlightenment, karma, dharma. The course will examine the historic development of these concepts in their various Asian cultural and geographic settings. (Available for General Education, Comparative Cultural Studies.)

396A-Z. EXPERIMENTAL COURSES IN RELIGIOUS STUDIES (3)
Selected topics in Religious Studies with course content to be determined.

426. RELIGIONS OF CHINA: TAOISM (3)
Prerequisites: RS 100 or RS 150. A study of Taoist experience and thought.

468. SEX ETHICS IN RELIGIOUS THOUGHT (3)
Prerequisites: One of the following: Phil. 160, Phil. 301, RS 205, RS 230, RS 300, RS 301, or RS 302. An examination of traditional and contemporary views of human sexuality in selected religions.

498. TUTORIAL IN RELIGIOUS STUDIES (1-3)
Reading and discussion in a specific field or on a specific topic in a small group. May be repeated for credit.

499. INDEPENDENT STUDY (1-3)
SCIENCE AND MATHEMATICS, COLLEGE OF
Dean’s Office: SC 2130
Phone: (818) 677-2004.

COURSE LIST
(Courses in the various departments and programs within the College are listed alphabetically in this catalog.)

LOWER DIVISION
SCI 101. THE STUDY OF SCIENCE (3)
A course designed to promote the student’s success in college by assisting the student in obtaining skills necessary to reach his/her educational objectives, with special emphasis on skills required in the sciences. Topics in this course include time planning, test-taking, communication skills, study techniques, question-asking skills, library use, and personal issues that face many college students.
Lecture 2 hours, laboratory 3 hours.

SCI 595A-Z. SPECIAL TOPICS (1-3)
SOCIETY
Chair: Jane Prather

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES
Department Office: Faculty Office Building 321
Phone: (818) 677-3591
Secretary: Barbara Miyagawa

FACULTY: Elizabeth Bartle, Jean Daniels, Herman DeBose,
Veronica Elias, Vincent Jeffries, Vickie Jensen, Ronald Krane,
Patricia O'Donnell-Brummett, Wayne Plasek, Jane Prather
(Chair), Harvey Rich, Jerald Schutte, Victor Shaw, Lawrence
Snedden, Wenchang Wang, Nathan Weinberg, Loretta Winters

EMERITUS FACULTY: Tamar Becker, Elizabeth Bluth, Earl
Bogdanoff, John Crowther, Joseph Ford, Alfred Himelson,
Mamoru Iga, Kian Kwan, Dorothy Meier, Roscoe Miller,
Ralph Segalman, Bernard Thorsell, Lewis Yablonsky

UNDERGRADUATE ADVISERS: Veronica Diehl Elias.
Students should contact department office for assignment of
additional advisors.

GRADUATE COORDINATOR: Vickie Jensen

GRADUATE ADVISORS: V. Elias, Harvey Rich, Jerry Schutte,
Nathan Weinberg

DEGREES OFFERED: B.A. and M.A. in Sociology

B.A. OPTIONS OFFERED: Option 1- General Sociology; Option 2-
Criminology and Corrections; Option 3- Social Welfare;
Option 4- Counseling and Interviewing: Work Settings.

ACADEMIC ADVISEMENT: Students are strongly encouraged to
seek advisement from faculty members concerning their
academic programs. Faculty and Peer advisors’ office hours
are posted in the Sociology Department office.

The Department of Sociology supports the concept of
international education and encourages students to
investigate opportunities for overseas study. Certain
courses taken at CSU International Program Study Centers
in foreign countries are equivalent to courses in the
Department of Sociology and may be used to fulfill some of
the requirements for degree options offered by the
Department and/or certain general education requirements.
Students should consult the International Programs Bulletin
available in the Office of International and Exchange
Programs, a departmental advisor, or the campus
International Programs Advisor for more information.

DEPARTMENT PROGRAMS: The Sociology Department offers a
major with various options, tracks of focused interests, and
a minor, and participates in the interdisciplinary Child
Development, Liberal Studies, and Urban Studies majors
and the Gerontology, Jewish Studies, and Women’s Studies
minors. The major is designed for students who:

a. desire to move directly into careers involving general
urban problems, social welfare, counseling, the field of
corrections, or community work.

b. desire a liberal arts education with emphasis on
sociology.

c. desire a liberal arts background to prepare themselves
for professional graduate study in law, business,
medicine, or teaching.

d. desire a background to prepare themselves for
graduate study in sociology, social welfare, and other
related fields.

CAREERS: Sociology provides an excellent liberal arts
background which prepares majors for a wide variety of
careers ranging from law to business to medicine. It also

requires specific training which can lead to positions in
such fields as law enforcement, corrections, counseling,
demographics, market research, social work, or politics.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

LOWER DIVISION REQUIRED COURSE,
ALL OPTIONS (20 UNITS)

Department Course Requirement..............................................10
SOC 150 Introductory Sociology...........................................3
MATH 140 Introductory Statistics...........................................4
SOC 202 Sociological Analysis...............................................3

UPPER DIVISION OPTION REQUIREMENTS
(select one option)

OPTION I: GENERAL SOCIOLOGY

General Sociology is intended for a) those who wish a
liberal arts education, b) those who desire to pursue
graduate education in sociology or allied fields, c) those
who wish specific occupational preparation for a number of
fields. Students may focus upon the areas of American
Studies, Criminology and Corrections, Social Psychology,
Social Research, Ethnic Studies, Sociology of Work, and
Social Problems as a way of developing their interests and
knowledge in broad areas of specialization within the
discipline.

UPPER DIVISION REQUIRED COURSES (20 UNITS)

SOC 364/L Social Statistics and Laboratory..........................3, 1
SOC 368/S Sociological Theory I and Seminar.......................3, 2
SOC 468/S Sociological Theory II and Seminar......................3, 2
SOC 497/L Methods of Social Research and Lab...................3, 1
SOC 498/SEE/S Field Study and Reports and Seminar...........1, 1

ELECTIVES (18 UNITS)

Select 18 units of upper division sociology courses.
Courses cannot fulfill more than one requirement.

TOTAL UNITS REQUIRED FOR THE MAJOR,
OPTION I (48 UNITS)

GENERAL EDUCATION (52 UNITS)

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (18 UNITS)

TOTAL UNITS REQUIRED FOR THE DEGREE: 124

OPTION II: CRIMINOLOGY AND CORRECTIONS

Criminology and Corrections is intended for persons
interested in the study of criminology and corrections.
It provides the student with a theoretical and practical
foundation for an understanding of criminal and deviant
behavior. In addition, this option provides the student with
skills for further education or entry level practice in the
areas of corrections, administration of justice and criminal
justice systems.

UPPER DIVISION REQUIRED COURSES (27-28 UNITS)

SOC 345 Social Psychology..................................................3
SOC 364/L Social Statistics and Laboratory..........................3, 1
SOC 368/S Sociological Theory I and Seminar.......................3, 2
SOC 426 Social Legislation....................................................4
SOC 468/S Sociological Theory II and Seminar......................3, 2
SOC 497/L Methods of Social Research and Lab...................3, 1
SOC 498/SEE/S Field Study and Reports and Seminar...........1, 1

Select one of the following:

SOC 498/SEE Field Study and Reports.................................2
SOC 498/CEE Field Study and Reports.................................3
OPTION IV: COUNSELING AND INTERVIEWING: WORK SETTINGS

The Counseling and Interviewing: Work Settings option is intended for those students who wish to a) concentrate in the area of counseling and interviewing in work settings, theory and practice, as a background for entry level employment in one of the fields of human resources development, such as vocational counseling and guidance, employment counseling, occupational and career planning and development, vocational rehabilitation, and related areas, and b) desire an undergraduate emphasis in counseling and interviewing in work settings, theory and practice, as a background for undertaking graduate education in the field of counseling and guidance.

UPPER DIVISION REQUIRED COURSES (32 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 364/L</td>
<td>Social Statistics and Laboratory</td>
<td>3,1</td>
</tr>
<tr>
<td>SOC 368/S</td>
<td>Sociological Theory I and Seminar</td>
<td>3,2</td>
</tr>
<tr>
<td>or</td>
<td>Sociological Theory II and Seminar</td>
<td></td>
</tr>
<tr>
<td>SOC 345</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 356</td>
<td>Introduction to Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOC 357</td>
<td>Introduction to Social Work Practice</td>
<td></td>
</tr>
<tr>
<td>SOC 426</td>
<td>Social Legislation and Social Policy</td>
<td>4</td>
</tr>
<tr>
<td>SOC 470</td>
<td>Methods of Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOC 472</td>
<td>Proseminar in Social Welfare Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOC 475AE</td>
<td>Supervised Field Instruction I</td>
<td>3</td>
</tr>
<tr>
<td>SOC 475BEE</td>
<td>Supervised Field Instruction I</td>
<td>3</td>
</tr>
<tr>
<td>SOC 492</td>
<td>Dynamics of Social Behavior and Development</td>
<td>3</td>
</tr>
<tr>
<td>SOC 497/L</td>
<td>Methods of Social Research and Lab</td>
<td>3,1</td>
</tr>
</tbody>
</table>

Courses require field instruction equivalent to 180 hours per semester.

TOTAL UNITS REQUIRED FOR THE MAJOR, OPTION IV (51-53)

ADDITIONAL UNITS (15 UNITS)

TITLE 5 (6 UNITS)

ELECTIVES (9 UNITS)

CATEGORY I: SOCIETY AND THE INDIVIDUAL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SOC 303</td>
<td>The Family</td>
<td></td>
</tr>
<tr>
<td>SOC 304</td>
<td>Sociology of Deviance</td>
<td>3</td>
</tr>
<tr>
<td>SOC 305</td>
<td>Culture and Personality</td>
<td>3</td>
</tr>
<tr>
<td>SOC 307</td>
<td>Ethnic Diversity in America</td>
<td>3</td>
</tr>
<tr>
<td>SOC 312</td>
<td>American Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC 328</td>
<td>Child in Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC 350</td>
<td>Population Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>SOC 390</td>
<td>Race Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 400/L</td>
<td>Organizational Analysis and Laboratory</td>
<td>2, 1</td>
</tr>
<tr>
<td>SOC 459</td>
<td>Child Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOC 481</td>
<td>Counseling, Interviewing &amp; Intervention</td>
<td>3</td>
</tr>
<tr>
<td>SOC 492</td>
<td>Dynamics of Social Behavior and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS REQUIRED FOR THE MAJOR, OPTION III: (51)

GENERAL EDUCATION (52 UNITS)

TOTAL UNITS REQUIRED FOR THE DEGREE: 124
GENERAL EDUCATION (52 UNITS)
TITLE 5 (6 UNITS)
ADDITIONAL UNITS (13-15)
TOTAL UNITS REQUIRED FOR THE DEGREE: 124

MINOR IN SOCIOLOGY
LOWER DIVISION REQUIRED COURSES (6 UNITS)
SOC 150 Introductory Sociology ......................................3
SOC 202 Sociological Analysis .........................................3

UPPER DIVISION REQUIRED COURSES (4 UNITS)
Choose at least four units from the following pairs of courses taken concurrently:
SOC 368/S Sociological Theory I and Seminar ..............3, 2
or
SOC 468/S Sociological Theory II and Seminar.............3, 2
or
SOC 497/L Methods of Social Research and Laboratory ..................................................3, 1
(Prerequisite: SOC 364/364L)
Electives in Sociology chosen with advisor approval ...........12
TOTAL UNITS REQUIRED FOR THE MINOR: (22-23)

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE
The M.A. Graduate Program in Sociology is intended for students who
a. wish to go on for doctoral degrees and careers in teaching and research after the completion of the M.A.
b. wish the degree as preparation for various occupations.
c. wish to pursue their liberal arts education further in the field of Sociology.

For admission to classified graduate status in the program:
1. Bachelor's degree, including all sociology undergraduate core requirements, or the equivalent.
2. University requirements for classified status. Department evaluation and approval are required for admission to either classified or unclassified graduate standing.

Please see Section on Graduate Programs in this Catalog for additional information regarding classification.

GENERAL SOCIOLOGY
A minimum of 30 units of approved graduate courses.

REQUIRED COURSES (12 UNITS)
SOC 601 Sociological Theory in Historical Perspective .....................3
SOC 670 Studies in Contemporary Sociology ..................3
SOC 690 Social Research ........................................3
SOC 691A-F Directed Research ........................................3
APPROVED GRADUATE COURSES ......................................12
At least 6 units must be in 500 or 600 level series in sociology.
In these 12 units the student should cover at least the remaining elective areas of concentration for the Comprehensive Examination.

ELECTIVES (6 UNITS)
These 6 units should be selected from sociology or related fields (selected with advisor approval).

COMPREHENSIVE EXAMS OR MASTER’S THESIS
a) Comprehensive Examinations in three areas including sociological theory and sociological research methodology, and one of the following:
   - Criminology and Corrections
   - Ethnic Relations
   - Medical Sociology
   - Organizational Analysis
   - Social Psychology
   - Sociology of Aging
   - Sociology of Family
   - Sociology of Gender and Sex
   - Sociology of Work
Students must sign up for SOC 697, Directed Comprehensive Studies, on Cr/NC basis, in the semester in which he or she plans to take the comprehensive exam.
b) After having completed 15 units (but no more than 24 units) of graduate work, of which at least 9 units are in 500-600 level courses, with a 3.50 GPA in graduate core courses.
   1) a student is required to pass a qualifying examination in Sociological Theory and Methodology.
   2) a student must name a thesis advisor and satisfactorily complete an 8-10 page thesis proposal. After reading the proposal, the advisor, in consultation with the Graduate Committee and the Department Chair, will recommend whether the student proceeds to the full thesis.

THE NORMAL PATH TO THE MASTER’S DEGREE IS VIA COMPREHENSIVE EXAMS. ONLY IN EXCEPTIONAL CASES WILL THE DEPARTMENT RECOMMEND WRITING A THESIS.
Student must sign up for SOC 698, Thesis Project on CR/NC basis, in the semester in which he or she plans to complete the thesis.

TOTAL UNITS REQUIRED FOR THE DEGREE: 30

COURSE LIST
LOWER DIVISION
150. INTRODUCTORY SOCIOLOGY (3)
The study of human society from the perspective of contemporary social science. Particular emphasis on the analysis and understanding of modern society and its salient problems. (Available for General Education, Social Sciences.)

200. SOCIAL CRISIS OF TODAY (3)
A course designed to help the student understand the bases of some of the major social crises of the present day. Topics include alcoholism, delinquency and street crime, ethnic tensions, gambling, international tensions, organized crime, political corruption, and terrorism. (Available for General Education, Social Sciences.)

201. CONTEMPORARY FAMILY IN AMERICAN SOCIETY (3)
Sociological analysis of the American family, including historical and recent changes, present nature, and the sociocultural and technological forces instrumental in shaping these conditions. Topics include traditional family and alternatives, role analysis, communication patterns, family crises and change, future of the family. (Available for General Education, Social Sciences.)
202. SOCIOLOGICAL ANALYSIS (3)
Prerequisite: SOC 150. Discussion of the logic and procedures of scientific analysis of social phenomena. Practice in conceptualizing and operationalizing social variables and in formulating testable hypotheses. Examination of the role of quantitative techniques and data reduction in current sociological analyses.

204. SOCIOLOGY: A WORLD PERSPECTIVE (3)
An analysis of social and cultural stability and change, cross-culturally and in world perspective, with an emphasis on the behavioral and contextual bases and implications of this process.

230. INTRODUCTION TO HUMAN SEXUAL BEHAVIOR (3)
(Same as ANTH, HIST, BIOL, REL STUDY and PSY 230.) Prerequisite: ANTH, PSY or SOC 150. This course provides an introductory overview of human sexual function and sexual behavior. Emphasis will be given to the historical and religious background of the prevailing attitudes toward sex in our culture as well as to current sexual practices from the perspective of contemporary social science. Additional topics include sexual values and ethics, love, legal aspects of sexual behavior, and eroticism in American culture. An interdepartmental, team-taught course. May not be used for General Education credit.

UPPER DIVISION

SOC 202 is strongly recommended prior to taking SOC 368, 468, and 497.

GENERAL PREREQUISITE: SOCIOLOGY 150 OR EQUIVALENT

303. THE FAMILY (3)
The family as a social institution on the basis of the data of ethnology, history, and contemporary studies. Special attention to contemporary culture patterns.

304. SOCIOLOGY OF DEVIANCE (3)
Deviant behavior in contemporary American society. Various definitions of deviance and social responses to the phenomenon. Theories of structural conditions and personal motivations contributing to different life styles. Analysis of deviant subcultures and individual case studies.

305. CULTURE AND PERSONALITY (3)
Prerequisites: ANTH 150, PSY 150, or SOC 150, and completion of the lower division writing requirement. A cross-cultural study of the development of individual personality in the socio-cultural milieu. Special attention is given to child rearing practices, social personality, social character, mental health and illness, and conforming and deviant behavior in several western and non-western societies. Not to be taken for credit in addition to ANTH 305. (Available for General Education, Social Sciences.)

306. JEWISH COMMUNAL AND FAMILY STRUCTURE (3)
Prerequisite: Completion of the lower-division writing requirement. The study of Jewish communal and family structure in an international context as a function of religious requirements and social circumstances. (Available for General Education, Comparative Cultural Studies.)

307. ETHNIC DIVERSITY IN AMERICA (3)
Prerequisite: Completion of lower-division writing requirement. A description and analysis of contemporary, changing ethnic cultures and lifestyles in American society. Focused analysis of ethnic cultures/lifestyles by social class, family form, sex role and orientation, age-grouping, and influences of social movements and popular culture. (Available for General Education, Comparative Cultural Studies.)

312. AMERICAN SOCIETY (3)
The development, form, and organization of basic institutions in American society and its communities and regions. The social genesis of contemporary problem situations.

324. SOCIOLOGY OF SEX AND GENDER (3)
Prerequisite: Completion of the lower-division writing requirement. Analysis of contemporary and historical sex roles in major societal institutions: economic, political, educational, legal, and medical systems and institutions of marriage and family. (Available for General Education, Social Sciences.)

325. SEX ROLES AND WORK (3)
Examination of current research on women in the labor force in U.S. and other industrial societies: impact of affirmative action programs, changes in structure and function of industrial labor forces, projections of future roles of women and men in the labor force.

328. THE CHILD AND SOCIETY (3)
The sociology of childhood. Sociological perspective on the changing role of the child, child socialization, the role of social institutions in the shaping of childhood experiences and behavior, and the problems of childhood in the larger society and in selected ethnic and minority groups.

333. CHINESE SOCIETY (3)
Prerequisite: Completion of lower division writing requirement. A study of Chinese social order, culture, institutions, values, beliefs, and social personality as they occur in traditional and contemporary China. Special attention is given to those social and cultural transformations that have shaped modern Chinese society. (Available for General Education, Comparative Cultural Studies.)

335. JEWISH IDENTITY IN THE U.S. (3)
Prerequisite: Completion of lower division writing requirement. The social-psychological study of a religious and ethnic minority. Comparison with other sub-cultural groups in America. Social institutions and processes involved in Jewish identity. (Available for General Education, Comparative Cultural Studies.)

340. SOCIOLOGY OF WORK (3)
Analysis of the structural context of work in contemporary society, including preparation for access to different positions within the occupational structure. The study of work settings, including formal and informal characteristics, changes in the structure of work, and case histories involving work experiences and occupational subcultures.

345. SOCIAL PSYCHOLOGY (3)

348. JUVENILE DELINQUENCY (3)
Extent and distribution of delinquency, with emphasis on the local area. Meaning, implications, and treatment of delinquency. Personal and environmental conditioning factors.
350. POPULATION DYNAMICS (3)
An analysis of the nature, causes and consequences of major world population trends as they are related to Urban Studies, Medical Sociology, and Ecology. Studies fertility, mortality and migration; sex ratios; race and ethnic composition; marital, educational, and occupational status; census and vital statistics.

355. CRIMINOLOGY (3)
The nature of crime, the causal factors of criminal behavior, and group control of the crime problem.

356. INTRODUCTION TO SOCIAL WELFARE (3)
An exploration of social welfare as one of the basic institutions in contemporary society; its historical development and changing philosophy. The place of social services within the institution of social welfare.

357. INTRODUCTION TO SOCIAL WORK PRACTICE (3)
Introduction to social work practice. Knowledge and theory related to interviewing skills and basic methods of intervention. Required of all Option III: Social Welfare majors. Students will engage in volunteer activities in social work agencies.

364. SOCIAL STATISTICS (3)
Prerequisite: MATH 140. Methods of organizing and analyzing quantitative sociological data. Satisfies the statistics requirement for the major. (SOC 364L must be taken concurrently.)

364L. SOCIAL STATISTICS LABORATORY (1)
Problem solving, exercises, projects, and data analysis. Use of Sociology laboratory or computer.

368. SOCIOLOGICAL THEORY I (3)
A study of early sociological theories. Emphasis on whole theoretical systems. Includes Comte, Spencer, Marx, Durkheim, Pareto, Weber, and Simmel as well as other sociologists who did their major work before 1917. (SOC 368S must be taken concurrently.)

368S. RESEARCH SEMINAR IN SOCIOLOGICAL THEORY (2)
Discussions and analysis of early sociological theories and theorists, from Comte through Weber, including supervised individual or group projects and reports.

390. RACE RELATIONS (3)
The study of diverse racial and ethnic groups, including Latino, Chicano, Asian, Black, American Indian, with a focus on the contemporary American scene. Status distinctions, migration and settlement patterns, segregation, integration, assimilation, prejudice, discrimination, economic and political factors, social movements and interaction patterns both within and between these groups, and their effects upon American life are studied.

395. APPLICATIONS OF COMPUTERS IN SOCIOLOGY (3)
Prerequisite: Some training in statistics is advised, and/or consent of the instructor. Sociological knowledge as related to the impact of computers on American Institutions. Examination and use of large data files. Application of computers in sociological inquiry.

396A-F. EXPERIMENTAL COURSES IN SOCIOLOGY (3)
Selected topics in Sociology with course content to be determined.

COURSES ACCEPTABLE FOR THE MASTER’S DEGREE
(300-level courses in sociology do not carry credit for the master’s in sociology).

400. ORGANIZATIONAL ANALYSIS (2)
Analysis of the social structure and interactional dynamics of selected organizational settings, including public and private agencies, hospitals, correctional facilities, educational institutions, and public and private corporations. Two hours lecture and two hours simulation and role-playing activity.

400L. ORGANIZATIONAL ANALYSIS LAB (1)
Problems and exercises in organizational analysis.

401. CLASS, STATUS, AND POWER (3)
Analysis of the distribution of wealth, prestige, and power. Study of the causes of poverty, life chances of the poor, lifestyles of the wealthy, upward and downward mobility, and class and group conflict in society.

418. WOMEN & CRIME (3)
This course focuses on women as victims of crime, women as perpetrators of crime, and women as agents of social control. The course also critically examines existing stereotypes about women within the criminal justice system.

426. SOCIAL LEGISLATION AND SOCIAL POLICY (4)
Prerequisite: Completion of the lower-division writing requirement. A study of the social and philosophical elements related to development and operation of poor law, social insurance law, health service, correctional law, juvenile law, mental health law, family law, employment provision and manpower law, child protection law and similar laws. Regular written assignments will be required.

440. SOCIOLOGY OF AGING (3)
Analysis of aging in its social and social psychological aspects, throughout the life span. Emphasis on particular social problems of the elderly; retirement, widowhood, suicide, housing, income maintenance, attitudes toward death and dying, etc.

445. SOCIAL-PSYCHOLOGICAL ASPECTS OF HEALTH CARE PROBLEMS (3)
Prerequisites: SOC 345 and HSCI 314. Review of current social psychological theories concerning attitudes, communication, interaction, role and individual behavior as applied to health care and related settings.

450. MEDICAL SOCIOLOGY (3)
A survey of sociological theory and research techniques related to mortality, illness, and medical treatment. Emphasis is placed upon the epidemiological aspects of these phenomena in various groups, hospitals, community health settings, etc.

451. SOCIOLOGICAL ASPECTS OF HUMAN SEXUALITY (3)
Prerequisite: SOC 230 and SOC 303 or consent of instructor. Emphasizes the sociological influences shaping human sexual behavior with an emphasis on learning social scripts.

452. SOCIOLOGY OF HOMOSEXUALITY (3)

456. PROSEMINAR IN SEXUAL DISORDERS (3)
Prerequisites: PSY 453, SOC 451, HSCI 441 or graduate standing and consent of instructor. (Same as PSY 456.) An intensive study of sexual dysfunction, including etiology, models of treatment, effects of aging and drug use on sexual attitudes and behavior, disorders of sexual desire, and...
ethical issues in sex therapy. Specifically designed for students planning careers in clinical or community psychology or counseling.

459. CHILD WELFARE (3)
Trends in the movement toward establishing the rights of the child to protection and care. Emphasis on the child and the law, compulsory education, school social work, child labor legislation, institutional and foster care for the healthy and the sick child, and adoption legislation.

468. SOCIOLOGICAL THEORY II (3)
Discussion of sociological theories since 1917. (SOC 468S must be taken concurrently.)

468S. RESEARCH SEMINAR IN SOCIOLOGICAL THEORY II (2)
Discussion and analysis of contemporary theories and theorists including supervised individual or group projects and reports.

470. METHODS OF SOCIAL WORK (3)
Prerequisite: SOC 345, 426. Theories and concepts in social work practice. An in-depth analysis of methods of intervention with individuals, families, groups and communities. Emphasis will be on the integration of theories with practice. Required for Sociology Option III majors.

472. PROSEMINAR IN SOCIAL WELFARE PRACTICE (3)
See SOC 475AEE/BEE for course prerequisites. A synthesis of social and behavioral science theories, principles and concepts applicable to social work practice by students in supervised field instruction. (Must be taken concurrently with SOC 475AEE/BEE.)

474. CONTEMPORARY TREATMENT OF LAW VIOLATORS (3)
A survey of general and specific treatment programs used in the rehabilitation of the offender in corrections institutions, probation and parole, and community projects. Students will be asked to visit several voluntary organizations during the course of the semester. Two hours lecture and two hours simulation and role playing activity.

475AEE/BEE. SUPERVISED FIELD INSTRUCTION I, II (3-3)
Prerequisites: SOC 345, 356, 357, 357P, 426, 470, 492 and GPA of 2.5 in upper division major courses and permission of instructor. Required for all Sociology Option III majors. In service training in social work practice in pre-approved agencies with field and faculty supervision. SOC 472 must be taken concurrently with SOC 475AEE/BEE. If desired, students may enroll for SOC 475AEE and 475BEE concurrently. Pre-enrollment by specified date during the preceding semester is required. An Academic Internship course. This course is offered for CR/NC only.

481. COUNSELING, INTERVIEWING AND INTERVENTION (3)
Prerequisite: SOC 345. Experiential training and practice in the skills, methods and techniques of counseling, the helping interview, and intervention in work, group, organizational, and community settings, by means of in-class role playing, simulation, and case studies.

482SOC. PRACTICUM IN COUNSELING AND GUIDANCE: WORK SETTINGS (3)
Prerequisite: SOC 481. Supervised field experience in counseling and guidance activities, paraprofessional work settings. Community field placements consistent with student career needs. Class size limited to 15 students. An Academic Internship course. This course is offered for Credit/No Credit only.

483. PROSEMINAR IN COUNSELING AND GUIDANCE: WORK SETTINGS (1)
Prerequisite: SOC 481. Coordination and discussion of ongoing intern field placement issues, opportunities, and problems. Integration of theoretical assigned readings and field work experience through discussion, presentations, and individual term projects/papers. Career exploration and guidance. To be taken concurrently with SOC 482.

486SOC. SOCIAL SCIENCE CAREER INTERNSHIP (3)
(Same as GEOG, HIST, PAS, POLS and PSY 486SOC)
Prerequisites: Upper division standing in a social or behavioral science major, appropriate methods course as specified by the department, and consent of instructor. Social and behavioral science principles will be applied to the work place. At least nine hours per week of supervised fieldwork is required. Students will complete learning contracts and submit written reports related to their internships. (See section on Academic Internships.)

491. GROUP PROCESSES: PSYCHODRAMA AND SODIORDRAMA (3)
A review of the theory and method of psychodrama, sociodrama, and various group therapies as applied in such treatment settings as correctional institutions, psychiatric hospitals, juvenile institutions, probation and parole, and community mental health clinics. Lectures, videotapes and classroom demonstrations of these group methods. (Student participation in demonstrations of group methods is voluntary and is not a course requirement.)

492. DYNAMICS OF SOCIAL BEHAVIOR AND DEVELOPMENT (3)
Prerequisites: SOC 345 or PSY 345 or other comparable upper division course and completion of the lower-division writing requirement. Sociological aspects of interpersonal behavior, with emphasis on symbolic interaction, social development, and socialization theories. Analysis of a variety of social-psychological concepts for understanding individual, family, small group and community dynamics. Discussion of application of theory to practice in social work and related human service fields. Regular written assignments will be required.

496. EXPERIMENTAL COURSES IN SOCIOLOGY (1-4)
Special Seminar in selected topics in Sociology with course content to be determined.

497. METHODS OF SOCIAL RESEARCH (3)
Prerequisites: SOC 202 and 364. Application of the scientific method to social phenomena and analysis of the techniques. Methods of collecting, classifying, interpreting, and presenting social data (SOC 497L must be taken concurrently).

497L. RESEARCH METHODS LABORATORY (1)
Problems and exercises with research design and data analysis.

498AEE-CEE. FIELD STUDY AND REPORTS (1-3)
Prerequisite: Consent of instructor. Supervised field observation and study. Written reports. An Academic Internship course. This course is offered for CR/NC only.

498S. SEMINAR IN FIELD STUDY AND REPORTS (1)
Application of sociological perspectives and methodology to field experience, either practicum or research. Concurrent enrollment in SOC 498, Field Study and Reports is required. Completion of SOC 497 & 497L is strongly recommended.

499A-C. INDEPENDENT STUDY (1-3)
GRADUATE

524. DYNAMICS OF SEX & GENDER IN SOCIETY (3)
Prerequisite: SOC 324 or approved alternatives. Macrosociocultural analysis of social trends and influences on the characteristics and dynamics of sex/gender roles in the context of major societal institutions. Micro-sociocultural analysis of sex/gender roles in patterns of interaction.

545. SEMINAR IN SOCIAL PSYCHOLOGY (3)
Advanced investigation of the dynamics of social interaction. Interdisciplinary research.

550. SEMINAR IN DEMOGRAPHY (3)
Prerequisites: Completion of core requirements in undergraduate program, or equivalent, plus a course in population. Advanced studies of population growth; advanced methods of population analysis; relation of population to national resources and public policy.

555. SEMINAR IN CRIMINOLOGY (3)
Advanced study of contemporary aspects of crime and the lawbreaker, and of social controls of crime.

572. SOCIAL POLICY RESEARCH AND EVALUATION (3)
The study and evaluation of various areas of social policy including welfare, criminal justice, health services, planning urban administration.

579. SEMINAR IN THE FAMILY (3)
An advanced study of the dynamics of the family as a social institution, with emphasis on recent research regarding processes of family change, family disorganization and reorganization.

585A-Z. SELECTED TOPICS IN SOCIOLOGY (3)
Prerequisites: Completion of core requirements in undergraduate program, or equivalent, plus 12 units or 400 or 500 level work in sociology. Special seminars in selected topics in sociology.

601. SOCIOLOGICAL THEORY IN HISTORICAL PERSPECTIVE (3)
(Formerly 501)
Development of systematic sociological theory in its historical dimensions and in its continuity from preceding social thought and social philosophy. Critical analysis of major types of social theory.

622. SEMINAR IN COMPLEX ORGANIZATIONS (3)
(Formerly 522)
Study of theoretical and empirical materials on complex organizations. Consideration may include examples from industry, commerce, public service, government, the military, religion, and recreational and benevolent associations.

640. SEMINAR IN APPLIED SOCIOLOGY (3) (Formerly 540)
Prerequisites: SOC 364 and 364L or equivalent; SOC 570 and 591G or concurrent enrollment. A study of the use of sociological theory and methodology in applied research design. Graduate projects are conducted in areas described in the M.A. option in Applied Sociology. Concurrent enrollment in SOC 698 (3) is required.

670. STUDIES IN CONTEMPORARY SOCIOLOGY (3) (Formerly 570)
A survey of the methods and research of contemporary sociologists, with particular attention to the points of convergence and divergence.

680. SOCIOLOGY. ADVANCED QUANTITATIVE METHODS (3)
(Formerly 580)
Prerequisite: SOC 364. Selected topics from new and developing fields of quantitative sociological analysis.

690. SOCIAL RESEARCH (3) (Formerly 590)
Advanced study of social research techniques, with supervised application of research methods in a laboratory or field study situation.

691A-G. ADVANCED SOCIAL RESEARCH TECHNIQUES (3)
(Formerly 591)
Development of graduate research projects providing training in specific research techniques.

A. Observational techniques
B. Survey techniques
C. Historical and comparative techniques
D. Documentary techniques
E. Laboratory and small group techniques
F. Macro-quantitative techniques
G. Applied Research Techniques

696A-B. DIRECTED GRADUATE RESEARCH (3-3)
(Formerly 596)

697. DIRECTED COMPREHENSIVE STUDIES (3) (Formerly 597)
Limited to students preparing to take the Comprehensive Examination for the M.A. degree in Sociology. Offered Credit/No Credit only.

698A-F. THESIS OR GRADUATE PROJECT (1-6) (Formerly 598)

699A-F. INDEPENDENT STUDY (1-6) (FORMERLY 599)

SPEECH COMMUNICATION
(SEE COMMUNICATION STUDIES)
THEATRE
Chair: Jerry W. Abbitt
Department Office: Speech Drama 110
Phone: (818) 677-3086

COLLEGE OF ARTS, MEDIA, AND COMMUNICATION
Secretary: Audrey Gold

FACULTY: Jerry W. Abbitt (Chair), Maryellen Clemons, Catherine Dezseran, Heinrich R. Falk, Anamarie Garcia, Peter Grego, Ah-Jeong Kim, Lillian Lehman, Gary Lennon, Owen W. Smith.

EMERITUS FACULTY: Helen Backlin, Willard F. Bellman, James W. Brock, Mary Jane Evans, George Gunkle, Margaret B. Randal, William E. Schlosser.

GRADUATE ADVISING: Heinrich R. Falk, Director of Graduate Studies.

UNDERGRADUATE ADVISING: All majors are assigned a faculty advisor according to their area(s) of interest. Students are required to meet with their advisor each semester prior to registration for program approval.

CREDENTIAL ADVISING: Anamarie Garcia, Credential Advisor

THEATRE STAFF: Kathryn Anthony (Night Technical Director), Ann Burroughs (Administrative Analyst), Dennis Dillon (Scene Shop Supervisor), William Taylor (Theatre General Manager), Cliff Schneider (Lighting/Sound Supervisor), Judy Bowerman (Costume Shop Supervisor).

DEGREES OFFERED: B.A. and M.A.

CREDENTIAL INFORMATION: The Department of Theatre, in cooperation with the Department of English and the School of Education, offers a credential program that prepares students to teach at the secondary school level. Students interested in securing a teaching credential in Theatre should consult the department credential advisor at the beginning of the junior year regarding specific upper division course requirements. For details on the Credential program see the Credentials Program section of this catalog.

INTERNATIONAL STUDY: The Department of Theatre supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Program Study Centers in foreign countries are equivalent to courses in the Department of Theatre and may be used to fulfill some of the requirements for degree options offered by the Department and/or certain general education requirements. Students should consult the International Programs Bulletin available in the Office of International and Exchange Programs, a departmental advisor, or the campus International Programs Advisor for more information.

THEATRE HONORS PROGRAM: The Theatre Honors Program is a special curricular enhancement for outstanding students in the theatre major. Students become eligible to participate in the Theatre Honors Program at the beginning of their Junior year and will normally complete the program requirements during the ensuing four semesters. The program consists of two major components: (1) Honors Seminars and (2) an Honors Project or Thesis.

The Honors Seminars, which extend over the first three semesters of a student’s participation in the Theatre Honors Program, provide a unique opportunity to engage in intensive investigations and discussions of significant aspects of theatre practice and theory with a small group of fellow Honors students and senior faculty. The Honors Project or Thesis gives Honors students the opportunity to integrate their theatre studies and apply their knowledge and understanding of theatre art to the independent investigation of a significant topic or problem under the direction of a faculty mentor. Honors students will subsequently receive departmental support for the completion of an artistic project or written research thesis based on their investigation.

Admission to the Theatre Honors Program

Students may apply for admission to the Theatre Honors Program upon completion of the following:

1. All 100- and 200-level Requirements in Theatre;
2. A minimum of nine units of theatre courses taken at CSUN;
3. Attainment of a minimum 3.25 GPA in all Theatre courses taken at CSUN or transferred for credit towards the degree;
4. Attainment of a minimum 3.00 GPA in all undergraduate work.

Student applications for admission to the Theatre Honors Program will normally be submitted near the end of the Sophomore year. In every case applications will require the support of a CSUN Theatre Department faculty member. Applications to the Theatre Honors Program will be reviewed by the Honors Committee, which normally consists of the Honors Advisor and the Coordinators of the several curricular areas of the Theatre Department.

Requirements of the Theatre Honors Program

In order to graduate with Honors in Theatre, students must have completed the following:

1. TH 397 Honors Tutorial (1-1-1)
   Students will enroll in this course over a three-semester period, earning one unit of credit for each semester they are enrolled. No more than one unit
of credit can be earned in any given semester.
2. TH 498F Senior Honors Project or Thesis (3)
   Students will normally complete this requirement
during their last semester of enrollment. During
the preceding semester, the student will prepare, in
consultation with a faculty mentor, a project/thesis
proposal outlining the proposed investigation and
the artistic project or written research thesis
anticipated to result from this investigation.
3. Attainment of a minimum 3.5 GPA in all upper
division (300/400/500 level) theatre courses taken
at CSUN.
   The six units of Theatre Honors courses required for this
program will be substituted for six upper division
required units in the major in consultation with the
student’s advisor.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN THEATRE
To obtain the B.A. degree with a major in Theatre a student
must have at least a 2.0 grade point average in all upper
division theatre courses (including courses transferred from
other institutions and applied towards the requirements in
the major), and must have taken at least 18 units of upper
division theatre courses in residence. Students may not
receive credit for more than 72 units of theatre courses
(including courses transferred from other institutions and
applied towards the requirements in the major). Any
exceptions to this limitation must be individually approved
in writing by the student’s advisor and the Department
Chair before registration will be allowed.

PRODUCTION PARTICIPATION: All theatre majors are required
to complete one department-sponsored production
assignment each semester of residence. Completed
assignments should reflect the broad spectrum of theatre
production areas, including, but not limited to: acting,
directing, scenery, costumes, properties, lighting, sound,
makeup, technology, management, and dramaturgy.
Courses which require a production assignment as part
of the course (Th 103, 261, 262, 263, 276, 284, 339, 361A,
443, 498B, 498C, and 498D) will fulfill the production
assignment for the semester during which the course is
taken. Theatre majors are required to receive credit for
either Th 191 (lower division) or Th 391 (upper division)
each semester to validate their production assignment.

LOWER DIVISION REQUIRED COURSES (19 UNITS)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 102</td>
<td>Theatre: Form and Content</td>
<td>3</td>
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<tr>
<td>TH 103</td>
<td>Theatre: Process</td>
<td>2</td>
</tr>
<tr>
<td>TH 142</td>
<td>Introduction to Theatre Performance</td>
<td>2</td>
</tr>
<tr>
<td>TH 142A</td>
<td>Introduction to Stage Voice and Movement</td>
<td>1</td>
</tr>
<tr>
<td>TH 167</td>
<td>Makeup for the Performer</td>
<td>1</td>
</tr>
<tr>
<td>TH 191</td>
<td>Production Practicum</td>
<td>0-0-0-0</td>
</tr>
<tr>
<td>TH 242</td>
<td>Basic Acting Technique</td>
<td>3</td>
</tr>
<tr>
<td>TH 242A</td>
<td>Basic Stage Voice and Movement Technique</td>
<td>1</td>
</tr>
<tr>
<td>TH 261</td>
<td>Fundamentals of Scenery and Technology</td>
<td>2</td>
</tr>
<tr>
<td>TH 262</td>
<td>Fundamentals of Costume Technology</td>
<td>2</td>
</tr>
<tr>
<td>TH 263</td>
<td>Fundamentals of Lighting and Sound Technology</td>
<td>2</td>
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</tbody>
</table>

UPPER DIVISION REQUIRED COURSES (33 UNITS)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>TH 322A</td>
<td>World Theatre and Drama I</td>
<td>3</td>
</tr>
<tr>
<td>TH 322B</td>
<td>World Theatre and Drama II</td>
<td>3</td>
</tr>
<tr>
<td>TH 322C</td>
<td>World Theatre and Drama III</td>
<td>3</td>
</tr>
<tr>
<td>TH 350</td>
<td>Cultural and Historical Perspectives for Theatre</td>
<td>3</td>
</tr>
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</table>

TH 355 Principles of Stage Design................................. 2
TH 381 Management Techniques for the Theatre .................... 1
TH 391 Production Practicum...................................... 0-0-0-0
TH 444 Principles of Directing.................................... 3

SELECT A MINIMUM OF 3 UNITS FROM THE FOLLOWING:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 339</td>
<td>Improvisational Comedy</td>
<td>3</td>
</tr>
<tr>
<td>TH 342</td>
<td>Intermediate Stage Movement</td>
<td>3</td>
</tr>
<tr>
<td>TH 343</td>
<td>Intermediate Stage Voice and Speech</td>
<td>3</td>
</tr>
<tr>
<td>TH 348</td>
<td>Acting the Text</td>
<td>2</td>
</tr>
<tr>
<td>TH 376</td>
<td>Production Preparation and Performance:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Theatre for Young Audiences</td>
<td>3</td>
</tr>
<tr>
<td>TH 384</td>
<td>Touring Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TH 390</td>
<td>Theatre Production Participation [Acting]</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH 490</td>
<td>Theatre Production Participation [Acting]</td>
<td>1-3</td>
</tr>
<tr>
<td>TH 545</td>
<td>Advanced Directing</td>
<td>3</td>
</tr>
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</table>

SELECT ONE COURSE FROM THE FOLLOWING (3 UNITS)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 422</td>
<td>Theatre and Drama of Greece and Rome</td>
<td>3</td>
</tr>
<tr>
<td>TH 423</td>
<td>Theatre and Drama of the Middle</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Ages and Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>TH 424</td>
<td>Theatre and Drama of the 18th and 19th Centuries</td>
<td>3</td>
</tr>
<tr>
<td>TH 425</td>
<td>Theatre and Drama of Europe and America</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>from Naturalism to the Mid-20th Century</td>
<td>3</td>
</tr>
<tr>
<td>TH 426</td>
<td>Contemporary Theatre and Drama of</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Europe and America</td>
<td>3</td>
</tr>
<tr>
<td>TH 427</td>
<td>History of Costume</td>
<td>3</td>
</tr>
<tr>
<td>TH 432</td>
<td>Theatre and Drama of the United States</td>
<td>3</td>
</tr>
<tr>
<td>TH 433</td>
<td>The Musical Theatre in the United States</td>
<td>3</td>
</tr>
<tr>
<td>TH 475</td>
<td>Theatre and Drama for Young Audiences</td>
<td>3</td>
</tr>
<tr>
<td>TH 535</td>
<td>Theatrical Theory and Criticism</td>
<td>3</td>
</tr>
</tbody>
</table>

SELECT ONE COURSE FROM THE FOLLOWING (3 UNITS)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 530</td>
<td>Theatre and Drama of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>TH 531</td>
<td>Theatre and Drama of Asia</td>
<td>3</td>
</tr>
</tbody>
</table>

THEATRE PRODUCTION PARTICIPATION OR ELECTIVES
(3 UNITS)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 390</td>
<td>Theatre Production Participation</td>
<td>1-2-3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH 490</td>
<td>Theatre Production Participation</td>
<td>1-2-3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Electives selected from any 300-, 400- or 500-level courses for which prerequisites have been met.

TOTAL UNITS IN THE MAJOR (52 UNITS)

GENERAL EDUCATION (52 UNITS)

TITLE 5 (6 UNITS)

ADDITIONAL UNITS (14 UNITS)

TOTAL UNITS REQUIRED FOR B.A. DEGREE: 124

REQUIREMENTS FOR THE MINOR IN THEATRE

Students who desire to acquire a minor in theatre may select
from the following three minor options:
I. Theatre History/Literature Minor Option
II. Theatre Acting/Directing Minor Option
III. Theatre Design/Technology Minor Option
Theatre 102 (Theatre: Form and Content) and Theatre 103 (Theatre: Process) are introductory courses required in each of the minor options and must be taken before any of the other courses in the minor. Students are strongly encouraged to meet with a department advisor as early as possible to discuss their program of studies and the selection of an option for the minor.

MINOR OPTION I: THEATRE HISTORY/LITERATURE MINOR OPTION (26 UNITS)

REQUISITE COURSE (17 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 102</td>
<td>Theatre: Form and Content</td>
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<tr>
<td>TH 103</td>
<td>Theatre: Process</td>
<td>2</td>
</tr>
<tr>
<td>TH 142</td>
<td>Introduction to Theatre Performance</td>
<td>2</td>
</tr>
<tr>
<td>TH 142A</td>
<td>Introduction to Stage Voice and Movement</td>
<td>1</td>
</tr>
<tr>
<td>TH 167</td>
<td>Makeup for the Performer</td>
<td>1</td>
</tr>
<tr>
<td>TH 191</td>
<td>Production Practicum</td>
<td>0-0</td>
</tr>
<tr>
<td>TH 242</td>
<td>Basic Acting Technique</td>
<td>3</td>
</tr>
<tr>
<td>TH 242A</td>
<td>Basic Stage Voice &amp; Movement Technique</td>
<td>3</td>
</tr>
<tr>
<td>TH 315</td>
<td>World Drama</td>
<td>3</td>
</tr>
<tr>
<td>TH 350</td>
<td>Cultural and Historical Perspectives for Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TH 391</td>
<td>Production Practicum</td>
<td>0-0</td>
</tr>
</tbody>
</table>

SELECT TWO COURSES FROM THE FOLLOWING (6 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 422</td>
<td>Theatre and Drama of Greece and Rome</td>
<td>3</td>
</tr>
<tr>
<td>TH 423</td>
<td>Theatre and Drama of the Middle Ages and Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>TH 424</td>
<td>Theatre and Drama of the 18th and 19th Centuries</td>
<td>3</td>
</tr>
<tr>
<td>TH 425</td>
<td>Theatre and Drama of Europe and America from Naturalism to the Mid-20th Century</td>
<td>3</td>
</tr>
<tr>
<td>TH 426</td>
<td>Contemporary Theatre and Drama of Europe and America</td>
<td>3</td>
</tr>
<tr>
<td>TH 427</td>
<td>History of Costume</td>
<td>3</td>
</tr>
<tr>
<td>TH 432</td>
<td>Theatre and Drama of the United States</td>
<td>3</td>
</tr>
<tr>
<td>TH 433</td>
<td>The Musical Theatre in the United States</td>
<td>3</td>
</tr>
<tr>
<td>TH 535</td>
<td>Theatrical Theory and Criticism</td>
<td>3</td>
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SELECT ONE COURSE FROM THE FOLLOWING (3 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 530</td>
<td>Theatre and Drama of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>TH 531</td>
<td>Theatre and Drama of Asia</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required in Theatre History/Literature Minor Option (26 Units)

MINOR OPTION II: THEATRE ACTING/DIRECTING MINOR OPTION (26 UNITS)

REQUISITE COURSE (22 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 102</td>
<td>Theatre: Form and Content</td>
<td>3</td>
</tr>
<tr>
<td>TH 103</td>
<td>Theatre: Process</td>
<td>2</td>
</tr>
<tr>
<td>TH 107</td>
<td>Theatre: Voice and Movement</td>
<td>4</td>
</tr>
<tr>
<td>TH 142</td>
<td>Introduction to Theatre Performance</td>
<td>2</td>
</tr>
<tr>
<td>TH 142A</td>
<td>Introduction to Stage Voice and Movement</td>
<td>1</td>
</tr>
<tr>
<td>TH 167</td>
<td>Makeup for the Performer</td>
<td>1</td>
</tr>
<tr>
<td>TH 191</td>
<td>Production Practicum</td>
<td>0-0</td>
</tr>
<tr>
<td>TH 242</td>
<td>Basic Acting Technique</td>
<td>3</td>
</tr>
<tr>
<td>TH 242A</td>
<td>Basic Stage Voice &amp; Movement Technique</td>
<td>3</td>
</tr>
<tr>
<td>TH 315</td>
<td>World Drama</td>
<td>3</td>
</tr>
<tr>
<td>TH 350</td>
<td>Cultural and Historical Perspectives for Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TH 391</td>
<td>Production Practicum</td>
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</tr>
<tr>
<td>TH 391</td>
<td>Production Practicum</td>
<td>0-0</td>
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SELECT FOUR UNITS FROM THE FOLLOWING (4 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>TH 339</td>
<td>Improvisational Comedy</td>
<td>3</td>
</tr>
<tr>
<td>TH 342</td>
<td>Intermediate Stage Movement</td>
<td>2</td>
</tr>
<tr>
<td>TH 343</td>
<td>Intermediate Stage Voice and Speech</td>
<td>3</td>
</tr>
<tr>
<td>TH 348</td>
<td>Acting the Text</td>
<td>2</td>
</tr>
<tr>
<td>TH 545</td>
<td>Advanced Directing</td>
<td>3</td>
</tr>
<tr>
<td>TH 390</td>
<td>Theatre Production Participation (Acting)</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units Required in Theatre Acting/Directing Minor Option (26 Units)

MINOR OPTION III: THEATRE DESIGN/TECHNOLOGY MINOR OPTION (26 UNITS)

REQUISITE COURSE (20 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 102</td>
<td>Theatre: Form and Content</td>
<td>3</td>
</tr>
<tr>
<td>TH 103</td>
<td>Theatre: Process</td>
<td>2</td>
</tr>
<tr>
<td>TH 191</td>
<td>Production Practicum</td>
<td>0-0</td>
</tr>
<tr>
<td>TH 261</td>
<td>Fundamentals of Scenery and Properties Technology</td>
<td>2</td>
</tr>
<tr>
<td>TH 262</td>
<td>Fundamentals of Costume Technology</td>
<td>2</td>
</tr>
<tr>
<td>TH 263</td>
<td>Fundamentals of Lighting and Sound Technology</td>
<td>2</td>
</tr>
<tr>
<td>TH 315</td>
<td>World Drama</td>
<td>3</td>
</tr>
<tr>
<td>TH 350</td>
<td>Cultural and Historical Perspectives for Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TH 355</td>
<td>Principles of Stage Design</td>
<td>2</td>
</tr>
<tr>
<td>TH 381</td>
<td>Management Techniques for the Theatre</td>
<td>1</td>
</tr>
<tr>
<td>TH 391</td>
<td>Production Practicum</td>
<td>0-0</td>
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SELECT SIX UNITS FROM THE FOLLOWING (6 UNITS)

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>TH 361A</td>
<td>Intermediate Scenery and Properties Technology</td>
<td>3</td>
</tr>
<tr>
<td>TH 361B</td>
<td>Intermediate Scenic Art Techniques</td>
<td>2</td>
</tr>
<tr>
<td>TH 362A</td>
<td>Intermediate Costume Technology</td>
<td>2</td>
</tr>
<tr>
<td>TH 362B</td>
<td>Intermediate Costume Crafts</td>
<td>2</td>
</tr>
<tr>
<td>TH 363A</td>
<td>Intermediate Lighting Technology</td>
<td>2</td>
</tr>
<tr>
<td>TH 363B</td>
<td>Intermediate Sound Technology</td>
<td>2</td>
</tr>
<tr>
<td>TH 382</td>
<td>Theatre Management Practicum</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Total Units Required in Theatre Design/Technology Minor Option (26 Units)

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN THEATRE

Required for admission to Classified Graduate status in the program:
1. Baccalaureate degree and a minimum of 24 units of upper division theatre courses, normally distributed as follows:
   (a) Acting (3 units);
   (b) Directing (3 units);
   (c) Theatre Design/Technology (6 units);
   (d) Theatre History/Literature/Criticism (12 units).

2. University requirements for Classified Graduate status.
3. Successful completion of departmental qualifying procedures.

Note: Students should consult with the department concerning GRE requirement.

REQUISITE COURSE (30 UNITS)

A. A minimum of 30 units of approved courses, distributed as follows:

1. TH 600 Seminar in Research Methods and Bibliography in Theatre | 3 |
2. Select two courses from the following: (6 Units):
   TH 620 Seminar in Theatre History | 3 |
   TH 621 Seminar in Theatrical Literature | 3 |
   TH 625 Seminar in Popular Theatre and Entertainment | 3 |
3. Select two courses from the following (6 Units):
   TH 630 Seminar in Theatre Aesthetics | 3 |
   TH 640 Seminar in Acting and Directing | 3 |
   TH 670 Seminar in Child Drama | 3 |
4. Select 12 units from the following (12 Units):
   TH 695A-Z Theories in Drama and Theatre | 3-3-3 |
167. MAKEUP FOR THE PERFORMER (1)

Prerequisites: Theatre 102, 103. Introduction to practical application of stage makeup for the performer. Practice in two- and three-dimensional applications as they relate to performance, utilizing a basic stage makeup kit. Class meets three hours per week.

190. THEATRE PRODUCTION PARTICIPATION (1-1)

Participation in various aspects of Theatre CSUN's production program: acting, directing, technical, or managerial assignments. Maximum of two units may be earned.

191. PRODUCTION PRACTICUM (0-0-0-0)

Required of all lower division theatre majors each semester of enrollment. Carries no unit credit but validates production participation. Course offered for Credit/No Credit only.

242. BASIC ACTING TECHNIQUE (3)

Prerequisites: Theatre 102, 103, 142, 142A. Corequisite: Theatre 242A. A studio course which explores the vocabulary, elements, and skills of the actor's craft through group work, prepared exercises, improvisation, monologues, and scenes. Class meets six hours per week.

242A. BASIC STAGE VOICE & MOVEMENT TECHNIQUE (1)

Prerequisites: Theatre 102, 103, 142, 142A. Corequisite: Theatre 242. Development and refinement of exercises to promote optimum use of voice, speech, and body as tools for the actor. Class meets two hours per week.

249. TUTORIAL IN PERFORMANCE SKILLS (1-1-1-1)

Prerequisite: Audition. Diagnosis of individual strengths and weaknesses in performance skills; individual tutorials directed at improvement of skills and correction of problems. Course is designed to complement work in Theatre CSUN's production program. Maximum of four units may be earned. Course offered for Credit/No Credit only.

261. FUNDAMENTALS OF SCENERY AND PROPERTIES TECHNOLOGY (2)

Prerequisites: Theatre 102, 103. Practical introduction to the theories and application of construction techniques for the scenic environment; visual language, principles, techniques, and tools used in creating scenery and properties; safety in the theatre. Required participation in a university-sponsored production.

262. FUNDAMENTALS OF COSTUME TECHNOLOGY (2)

Prerequisites: Theatre 102, 103. Practical introduction to the theory and application of costume and accessory construction for the stage; use of equipment, fabrics, and materials appropriate to costume technology. Required participation in a university-sponsored production.

263. FUNDAMENTALS OF LIGHTING AND SOUND TECHNOLOGY (2)

Prerequisites: Theatre 102, 103, 261. Introduction to technical principles and applications of stage lighting and sound; basic lighting and sound equipment, nomenclature, skills, and practices used in creating lighting and sound for stage productions. Required participation in a university-sponsored production.

276. PRODUCTION PREPARATION AND PERFORMANCE: THEATRE FOR YOUNG AUDIENCES (3)

Prerequisite: Audition/Interview. Preparation and performance of a university-sponsored production for young audiences.

284. TOURING THEATRE (3)

Prerequisite: Audition/Interview. Participation in the preparation and presentation of a university-sponsored touring theatre production.
290. THEATRE PRODUCTION PARTICIPATION (1-1)
Participation in various aspects of Theatre CSUN’s production program: acting, directing, technical, or managerial assignments. Maximum of two units may be earned.

296A-Z. EXPERIMENTAL COURSES IN THEATRE (1-3, 1-3)
Prerequisite: Consult Theatre Department office. Experimental courses in theatre with course content to be determined. Maximum of six units may be earned.

UPPER DIVISION

310. THEATRE IN PERFORMANCE (3)
Prerequisite: Completion of the Lower Division Writing Requirement. Introduction to the theatre through the experience of attending performances, preparatory lectures, and post-performance discussions and critiques. Critical writing assignments required. Not open to theatre majors. (Available for General Education, Humanities.)

315. WORLD DRAMA (3)
Prerequisites: Completion of Lower Division Writing Requirement and upper division standing. A survey of world dramatic literature from primitive times to the present. Masterpieces of drama from Asia, Europe, Africa, and the Americas will be studied. Not open to theatre majors. (Available for General Education, Humanities.)

322A. WORLD THEATRE AND DRAMA I (3)
Prerequisites: Theatre 102, 103. An introductory survey of the history and literature of the Western theatre from primitive times through the eighteenth century. Critical writing assignments required.

322B. WORLD THEATRE AND DRAMA II (3)
Prerequisites: Theatre 102, 103. An introductory survey of the history and literature of the Western theatre from the nineteenth century to the present. Critical writing assignments required.

322C. WORLD THEATRE AND DRAMA III (3)
Prerequisites: Theatre 102, 103. An introductory survey of the history and literature of the traditional and contemporary theatres of Asia, Africa, and the Middle East. Critical writing assignments required.

339. IMPROVISATIONAL COMEDY (3)
Prerequisite: Audition. Introduction to the techniques of improvisational comedy. The class will develop as an improvisation troupe and subsequently present public performances.

342. INTERMEDIATE STAGE MOVEMENT (2)
Prerequisites: Theatre 242, 242A. Intermediate training of the body for stage movement; exercise for strength, flexibility, relaxation, control; physicalization and movement as a part of character development. Class meets four hours per week.

343. INTERMEDIATE STAGE VOICE AND SPEECH (3)
Prerequisites: Theatre 242, 242A. Intermediate theory and practice of voice and speech in the theatre. Exercises in stage diction, vocal techniques, phonetics. Class meets six hours per week.

344. STAGE DIALECTS (2)
Prerequisite: Theatre 343. The study of selected stage dialects. Class meets four hours per week.

346. MUSICAL THEATRE WORKSHOP I (3)
Prerequisites: Completion of lower division requirements in theatre major and Music 238A. Study of the special acting, vocal, and movement skills required for performance in musical theatre. Class meets six hours per week.

347. MUSICAL THEATRE WORKSHOP II (3)
Prerequisites: Theatre 346 and audition. Application of basic acting, vocal, and movement skills acquired in Theatre 346. Musical scene study and performance. Class meets six hours per week.

348. ACTING THE TEXT (2)
Prerequisites: Theatre 242, 242A. Dramatic structure; methods of text analysis for the actor; application through laboratory experience to specific texts and scenes. Class meets four hours per week.

349. SCENE STUDY (3)
Prerequisite: Theatre 348. Prerequisites or Corequisites: Theatre 342, 343. Studio course which emphasizes text analysis, character development, and scene study; application of these skills to modern and contemporary dramatic texts. Class meets six hours per week.

350. CULTURAL AND HISTORICAL PERSPECTIVES FOR THEATRE (3)
Prerequisite: Completion of lower division requirements in theatre major. Theatre 322A, 322B highly recommended. Historical elements as they relate to the staging of period plays: history of architecture, furniture, costume, social modes and manners. Development of dramaturgical research skills. Extensive writing and analysis required.

355. PRINCIPLES OF STAGE DESIGN (2)
Prerequisites: Theatre major - completion of lower division requirements in theatre major and one of the following: Theatre 322A, 322B, or 322C; other majors - consult department advisor for equivalency. Introduction to the discursive and non-discursive aspects of stage design, including process, techniques, and language of collaborative production artists; conceptualization of dramatic action, mood, and style through a range of media. Extensive critique of work in progress. Class meets four hours per week.

357. THEATRE DESIGN PRESENTATION TECHNIQUES (3)
Prerequisites: Completion of lower division requirements in theatre major and Theatre 355. Studio course exploring media, rendering techniques, and model building for theatre design; emphasis on depicting scenery and costumes. Class meets six hours per week.

361A. INTERMEDIATE SCENERY AND PROPERTIES TECHNOLOGY (2)
Prerequisite: Completion of lower division requirements in theatre major. Intermediate principles of realizing technical designs for the stage; construction technology, finishing, rigging, and materials. Required participation in a university-sponsored production.

361B. INTERMEDIATE SCENIC ART TECHNIQUES (2)
Prerequisites: Completion of lower division requirements in theatre major. Practical experience in the media, tools, and techniques used in the art of scene painting; class projects. Required participation in a university-sponsored production.

362A. INTERMEDIATE COSTUME TECHNOLOGY (2)
Prerequisite: Completion of lower division requirements in theatre major. Intermediate principles of theory and application of costume construction for the stage; use of equipment, fabrics, and materials appropriate to costume
362B. INTERMEDIATE COSTUME CRAFTS (2)
Prerequisite: Completion of lower division requirements in theatre major. Intermediate principles of theory and application of costume crafts for the stage; use of equipment, fabrics, and materials appropriate to costume accessory and craft making; preparation of appropriate accessories. Required participation in a university-sponsored production.

363A. INTERMEDIATE LIGHTING TECHNOLOGY (2)
Prerequisite: Theatre major - completion of lower division requirements in theatre major; other majors - consult department advisor for equivalency. Intermediate course exploring stage lighting, projection equipment, lighting control systems, optical systems, color theory, and current lighting graphic standards as they apply to stage, film, and video. Required participation in a university-sponsored production.

363B. INTERMEDIATE SOUND TECHNOLOGY (2)
Prerequisite: Completion of lower division requirements in theatre major. Study of the use of sound technology in live theatre production. Extensive work with sound generation and sound modification equipment; contemporary practices in sound design and implementation. Required participation in a university-sponsored production.

367. ADVANCED MAKEUP (2)
Prerequisite: Theatre 350. Practical experience in the application and design of makeup for the stage. Required participation in a university-sponsored production.

371. CREATIVE DRAMA (3)
Theory and techniques for developing the creative capacities of children and young people through dramatization; participation and leadership in creative drama. Class meets four hours per week.

376. PRODUCTION PREPARATION AND PERFORMANCE: THEATRE FOR YOUNG AUDIENCES (3)
Prerequisite: Audition/Interview. Preparation and performance of a university-sponsored production for young audiences.

381. MANAGEMENT TECHNIQUES FOR THE THEATRE (1)
Prerequisite: Completion of lower division requirements in theatre major. Basic principles in management with emphasis on theatrical applications; personnel, time, budgeting, procedures, organization, safety; setting and achieving objectives. Class meets two hours per week.

382. THEATRE MANAGEMENT PRACTICUM (1-3)
Prerequisites: Completion of lower division requirements in theatre major and Theatre 381. Practical application of theatre management techniques. Required participation in a university-sponsored production. Maximum of three units may be earned.

383. THEATRE ADMINISTRATION (3)
Prerequisites: Completion of lower division requirements in theatre major and Theatre 381. Management theories and techniques in theatre administration; organization of personnel media preparation and utilization, fiscal management, and public relations. Required participation in a university-sponsored production.

384. TOURING THEATRE (3)
Prerequisite: Audition/Interview. Theory and practice in the artistic and management aspects of producing theatrical performances for touring; practical experience in producing and presenting touring productions. Required participation in a university-sponsored production.

390. THEATRE PRODUCTION PARTICIPATION (1-2-3)
Participation in various aspects of Theatre CSUN’s production program: acting, directing, technical, or managerial assignments. Maximum of four units may be earned.

391. PRODUCTION PRACTICUM (0-0-0-0)
Prerequisite: Theatre 191. Required of all upper division theatre majors each semester of enrollment. Carries no unit credit but validates production participation. Course offered for Credit/No Credit only.

396A-Z. EXPERIMENTAL COURSES IN THEATRE (1-3, 1-3)
Prerequisite: Consult Theatre Department office. Experimental courses in theatre with course content to be determined. Maximum of six units may be earned.

397. THEATRE HONORS TUTORIAL (1-1-1)
Prerequisite: Admission to Theatre Honors Program. Intensive investigation in a small group of a topic related to some aspect of theatre practice or theory. Maximum of three units may be earned.

422. THEATRE AND DRAMA OF GREECE AND ROME (3)
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors consult department advisor for equivalency. Study of the history and literature of the theatre of Greece and Rome. Critical writing assignments required.

423. THEATRE AND DRAMA OF THE MIDDLE AGES AND RENAISSANCE (3)
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors - consult department advisor for equivalency. Study of the history and literature of the theatre of medieval Europe, the theatres of Italy, Spain, England, and France during the Renaissance. Critical writing assignments required.

424. THEATRE AND DRAMA OF THE 18TH AND 19TH CENTURIES (3)
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors - consult department advisor for equivalency. Study of the history and literature of the theatre in Europe from 1700 to the beginnings of naturalism. Critical writing assignments required.

425. THEATRE AND DRAMA OF EUROPE AND AMERICA FROM NATURALISM TO THE MID-20TH CENTURY (3)
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors - consult department advisor for equivalency. Study of contemporary theatre movements in Europe and America. Critical writing assignments required.
427. HISTORY OF COSTUME (3)  
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors - consult department advisor for equivalency. Detailed historical study of period fashions in relation to the social background, economic conditions, and general history of the periods as they apply to theatre. Critical writing assignments required.

432. THEATRE AND DRAMA OF THE UNITED STATES (3)  
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors - consult department advisor for equivalency. Study of the history and literature of the American theatre from Colonial times to the mid-20th century. Critical writing assignments required.

433. THE MUSICAL THEATRE IN THE UNITED STATES (3)  
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors - consult department advisor for equivalency. Study of the history and literature of the musical theatre in the United States from its beginnings to the present. Critical writing assignments required.

442. ADVANCED STAGE MOVEMENT (2)  
Prerequisites: Theatre 342, 349, 350. Performance course in advanced stage movement techniques; modes and manners of theatrical periods from ancient to modern; dance forms of the same periods; application of these studies to the creation of character in period drama. Class meets six hours per week. Not available for graduate credit.

443. ADVANCED STAGE VOICE AND SPEECH (3)  
Prerequisites: Completion of lower division requirements in theatre major and Theatre 343, 348, 349. Development of advanced voice, speech, analytical, and interpretative skills for the actor; application to the speaking and acting of Shakespearean texts. Not available for graduate credit.

444. PRINCIPLES OF DIRECTING (3)  
Prerequisites: Theatre major - completion of lower division requirements in theatre major and Senior standing; Theatre minor completion of lower division requirements in theatre minor and Senior standing. Theories and techniques of directing plays. Class meets six hours per week. Not available for graduate credit.

447. ACTING STYLES (3)  
Prerequisites: Completion of lower division requirements in theatre major and Theatre 349, 350, 443. Performance course which emphasizes advanced text analysis, character development, and scene study as applied to a wide variety of periods and genres. Not available for graduate credit.

449. TUTORIAL IN PERFORMANCE SKILLS (1-1-1-1)  
Prerequisite: Audition. Diagnosis of individual strengths and weaknesses in performance skills; individual tutorials directed at improvement of skills and correction of problems. Course is designed to complement work in Theatre CSUN’s production program. Maximum of four units may be earned. Course offered for Credit/No Credit only. Not available for graduate credit.

457. THEATRE DESIGN TUTORIAL (3-3-3)  
Prerequisites: Theatre 350, 355, 357. Individual work in theatre design with emphasis on scenery, costumes, or lighting. Focuses on developing and presenting design concepts for selected theatre productions. Maximum of 9 units may be earned; portfolio review required for repeat credit. Maximum of 3 units may be earned for graduate credit.

471. ADVANCED CREATIVE DRAMA (3)  
Prerequisites: Theatre 371 and consent of instructor. Comparison of theories, philosophies, and approaches to creative drama in a laboratory environment through exploration of, and practical experience with, various age levels. Class meets six hours per week.

472. FIELD EXPERIENCE IN CREATIVE DRAMA (2)  
Prerequisite: Theatre 371. Observation/participation and discussion of the practical application of creative drama philosophies and methods in a public school environment. Forty-five hours of field observation/participation required. Course offered Credit/No Credit only. Not available for graduate credit.

475. THEATRE AND DRAMA FOR YOUNG AUDIENCES (3)  
Prerequisites: Theatre major - Theatre 322A, 322B, 322C; Liberal Studies major in Theatre concentration - Theatre 315; other majors - consult department advisor for equivalency. Study of philosophies and practices in theatre and drama for young audiences, classic and contemporary, emphasizing critical analysis and evaluation of the form and content of dramatic literature and theatrical production for children and youth.

479. ISSUES IN CONTEMPORARY THEATRE (3)  
Prerequisites: Theatre major - completion of core requirements in theatre major; Liberal Studies major - Theatre 315, 475, and Theatre 376 or 384. Investigation of selected contemporary issues and practices in theatre, including consideration of selected ethical dimensions of the field. Significant research paper or project required. Not available for graduate credit.

490. THEATRE PRODUCTION PARTICIPATION (1-2-3)  
Participation in various aspects of Theatre CSUN’s production program: acting, directing, technical, or managerial assignments. Maximum of four units may be earned. Not available for graduate credit.

496A-Z. EXPERIMENTAL COURSES IN THEATRE (1-3, 1-3)  
Prerequisite: Consult Theatre Department office. Experimental courses in theatre with course content to be determined. Maximum of six units may be earned. Not available for graduate credit except when specifically approved by the department (consult Director of Graduate Studies).

498A. SENIOR THEATRE HISTORY/LITERATURE THESIS (3)  
Prerequisites: Theatre major in Theatre History/Literature Option; approved thesis proposal. Writing of a thesis resulting from research on a significant topic in theatre history, theatrical literature, or theory and criticism. Course offered for Credit/No Credit only. Not available for graduate credit.

498B. SENIOR THEATRE PERFORMANCE PROJECT (3)  
Prerequisites: Theatre major in Acting/Directing Option; approved project proposal. Weekly seminar with additional rehearsal/laboratory work on a major performance. Course offered for Credit/No Credit only. Not available for graduate credit.

498C. SENIOR THEATRE DESIGN PROJECT (1-3, 1-3)  
Prerequisites: Theatre major in Theatre Design/Technology Option; Theatre 457 and portfolio review. Production design for theatre. Required participation in a university-sponsored production. Maximum of nine units may be earned. Course offered for Credit/No Credit only. Not available for graduate credit.
498D. SENIOR THEATRE TECHNOLOGY PROJECT
(1-3, 1-3, 1-3)
Prerequisites: Theatre major in Theatre Design/Technology Option; Theatre 457 and interview. Technical supervision for theatre. Required participation in a university-sponsored production. Maximum of nine units may be earned. Course offered for Credit/No Credit only. Not available for graduate credit.

498E. SENIOR CREATIVE DRAMA/THEATRE FOR YOUNG AUDIENCES PROJECT OR THESIS (3)
Prerequisites: Theatre major in Creative Drama/Theatre for Young Audiences Option; approved project or thesis proposal. Completion of a project or writing of a thesis resulting from the investigation of a significant topic or problem in creative drama or in theatre for young audiences. Course offered for Credit/No Credit only. Not available for graduate credit.

ADVANCED UNDERGRADUATE AND GRADUATE
(500-level courses may be selected to meet requirements or electives for the undergraduate degree, or to meet electives in the Master’s program.)

530. THEATRE AND DRAMA OF LATIN AMERICA (3)
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors - consult department advisor for equivalency. Study of the history and literature of the Latin American theatre from pre-Columbian times to the present. Critical writing assignments required.

531. THEATRE AND DRAMA OF ASIA (3)
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors - consult department advisor for equivalency. Study of the history and literature of the Asian theatre from the beginnings to the present. Critical writing assignments required.

532. THEATRICAL THEORY AND CRITICISM (3)
Prerequisites: Theatre major or minor - Theatre 322A, 322B, 322C; other majors - consult department advisor for equivalency. Study of the history of theatrical theory and criticism from antiquity to the present. Major theories pertaining to all aspects of theatrical production, including staging, acting, scenography, and the script will be examined. Critical writing assignments required.

545. ADVANCED DIRECTING (3)
Prerequisite: Theatre 444. Advanced study of theories and styles of directing plays. Practical experience through production of scenes from different historical periods. Class meets six hours per week.

594. INTERNSHIP IN THE ARTS (3-3)
Prerequisites: Senior or Graduate standing, portfolio review or audition, and consent of instructor. An Academic Internship course. Maximum of six units may be earned. Maximum of three units may be earned for graduate credit. Course offered for Credit/No Credit only.

599. INDEPENDENT STUDY (1-3, 1-3)
Prerequisites: Completion of all core requirements in theatre major; consent of an instructor to serve as sponsor; permission of the department Chair. Enrollment restricted to theatre majors who have completed the full sequence of courses in the area of study to be pursued by Independent Study. Maximum of six units may be earned. Not open to classified graduate students.

GRADUATE
(300-level courses do not carry graduate credit; 400-level courses may be selected to meet electives in the Master’s program, except where designated as “not available for graduate credit.”)

393. DIRECTED QUALIFYING STUDIES: THEATRE HISTORY AND LITERATURE (3)
Prerequisites: Recommendation of department Director of Graduate Studies and consent of instructor. An intensive review and coverage of the fundamentals of theatre history and literature covered in the undergraduate theatre core courses. Course offered for Credit/No Credit only. Enrollment restricted to conditionally classified graduate students.

394. DIRECTED QUALIFYING STUDIES: ACTING (3)
Prerequisites: Recommendation of department Director of Graduate Studies and consent of instructor. An intensive review and coverage of the fundamentals of acting covered in the undergraduate theatre core courses. Course offered for Credit/No Credit only. Enrollment restricted to conditionally classified graduate students.

395. DIRECTED QUALIFYING STUDIES: TECHNICAL THEATRE (3)
Prerequisites: Recommendation of department Director of Graduate Studies and consent of Instructor. An intensive review and coverage of the fundamentals of technical theatre covered in the undergraduate theatre core courses. Course offered for Credit/No Credit only. Enrollment restricted to Conditionally Classified graduate students.

600. SEMINAR IN RESEARCH METHODS AND BIBLIOGRAPHY IN THEATRE (3)
An introduction to theatre research, involving bibliographical methods, the tools of research, and the organization and writing of the research study.

620. SEMINAR IN THEATRE HISTORY (3)
Prerequisites: Theatre 600 and an advanced course in theatre history/literature (Theatre 422 through 535 or equivalent). Investigation of selected problems in theatre history from antiquity through the present. Consideration of theatre architecture, audiences, staging and production, acting, and performance organization.

621. SEMINAR IN THEATRICAL LITERATURE (3)
Prerequisites: Theatre 600 and an advanced course in theatre history/literature (Theatre 422 through 535 or equivalent). Investigation of selected problems in theatrical literature from antiquity to the present. Consideration of the text, playwright, theatrical genres, and periods and movements.

625. SEMINAR IN POPULAR THEATRE & ENTERTAINMENT (3)
Prerequisite: Theatre 600. Investigation of selected popular theatrical and para-theatrical forms of theatre and entertainment from antiquity through the present. Consideration of relationships between popular theatre and formal literary theatre.
630. SEMINAR IN THEATRE AESTHETICS (3)
Prerequisites: Theatre 600 and an advanced course in directing or design (Theatre 545, or 457, or equivalents). Analysis of the aesthetic principles and techniques of the theatre; selected problems in the philosophy of dramatic art.

640. SEMINAR IN ACTING AND DIRECTING (3)
Prerequisites: Theatre 600 and an advanced course in acting or directing (Theatre 447 or 545 or equivalents). Selected theoretical problems and their application to acting and directing.

670. SEMINAR IN CHILD DRAMA (3)
Prerequisites: Theatre 600 and Theatre 371, 475, or equivalent experience. Examination of child drama theories and practices, including creative drama and theatre for children.

695A-Z. THEORIES IN DRAMA AND THEATRE (3-3-3)
Prerequisite: Theatre 600. The development of dramatic theory and practice; selected topics, including theories in American drama and theatre, European drama and theatre, and dramatic criticism. Maximum of nine units may be earned.

698. THESIS OR GRADUATE PROJECT (3)
Prerequisites: Classified graduate status; approval of appropriate area faculty to form a thesis or graduate project committee; an approved thesis or graduate project committee; and, completion of all additional requirements for the degree. Course offered for Credit/No Credit only.

699. INDEPENDENT STUDY (1-3, 1-3)
Prerequisites: Classified graduate status; consent of an instructor to serve as sponsor; review by the department Director of Graduate Studies. Maximum of six units may be earned.
CAREERS: Urban Studies and Planning provides pre-professional training which prepares majors for careers in such fields as urban planning, community development, environmental analysis, public administration and resource management.

REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

LOWER DIVISION REQUIRED COURSES (3 UNITS)

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<tr>
<th>Course</th>
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<td>URBS 150</td>
<td>The Urban Scene</td>
<td>3</td>
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UPPER DIVISION REQUIRED COURSES (6 UNITS)

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<td>ECON 300</td>
<td>Economic Problems and Principles</td>
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<td>or ECON 200</td>
<td>Principles of Economics</td>
<td>3</td>
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<td>URBS 310</td>
<td>Growth and Development of Cities</td>
<td>3</td>
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<td>URBS 304</td>
<td>Urban Research Methods</td>
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<td>URBS 340AL, 340BL</td>
<td>Laboratory in Urban Research</td>
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GROUP A

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<td>ECON 350</td>
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<td>ECON 360</td>
<td>Environmental Economics</td>
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<td>FES 315</td>
<td>Issues in Housing</td>
<td>3</td>
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<td>GEOG 351</td>
<td>Urban Geography</td>
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<td>GEOG 452</td>
<td>Urban Land Use Planning</td>
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<td>GEOG 459</td>
<td>Environmental Impact Studies</td>
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<td>HSCI 352</td>
<td>Environmental Health Policy, Law and Administration</td>
<td>3</td>
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<td>HSCI 453</td>
<td>Health &amp; Physical Aspects of Housing</td>
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<td>LSRC 385</td>
<td>Urban Recreation</td>
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<td>POLS 461</td>
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<td>POLS 469</td>
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GROUP B

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<td>BIOL 323</td>
<td>Plants &amp; Animals of Southern California</td>
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<td>BIOL 328</td>
<td>Biological Conservation</td>
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<td>GEOG 305/L</td>
<td>Maps and Graphics and Lab</td>
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<td>GEOG 307/L</td>
<td>Air Photo Interpretation and Lab</td>
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<td>GEOG 405/L</td>
<td>Geographic Information Systems &amp; Lab</td>
<td>4</td>
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<tr>
<td>GEOG 415</td>
<td>Air Pollution</td>
<td>3</td>
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<tr>
<td>GEOL 300/L</td>
<td>Environmental Geology and Lab</td>
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</table>
II. COMMUNITY SERVICES AND ADMINISTRATION
(Choose at least 2 courses from each group):

**GROUP A**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 308</td>
<td>Women, Sex Roles and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 345</td>
<td>Ethnicity in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 346</td>
<td>Urban Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AAS 340</td>
<td>Contemporary Issues in Asian American Society</td>
<td>3</td>
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<tr>
<td>AAS 345</td>
<td>Asian American Women</td>
<td>3</td>
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<tr>
<td>FES 424</td>
<td>Resource Management for the Elderly</td>
<td>3</td>
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<tr>
<td>HIST 350</td>
<td>History of Women</td>
<td>3</td>
</tr>
<tr>
<td>LSRC 330</td>
<td>Women, Leisure &amp; Ethnicity in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>LSRC 415</td>
<td>Leisure and Aging</td>
<td>3</td>
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<tr>
<td>PAS 300</td>
<td>Contemporary Issues in the African-American Community</td>
<td>3</td>
</tr>
<tr>
<td>SOC 307</td>
<td>Ethnic Diversity in America</td>
<td>3</td>
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<tr>
<td>SOC 390</td>
<td>Race Relations</td>
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<tr>
<td>SOC 401</td>
<td>Class, Status and Power</td>
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**GROUP B**

<table>
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<tr>
<td>CHS 361</td>
<td>Urbanization and the Chicano</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 314</td>
<td>Organization and Function of Community Health Services</td>
<td>3</td>
</tr>
<tr>
<td>POLS 360</td>
<td>Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>POLS 403</td>
<td>State and Local Government</td>
<td>3</td>
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<tr>
<td>POLS 405</td>
<td>The Process of Public Policy Formation</td>
<td>3</td>
</tr>
<tr>
<td>POLS 466</td>
<td>The Politics of Public Spending</td>
<td>3</td>
</tr>
<tr>
<td>POLS 467</td>
<td>Urban Administration</td>
<td>3</td>
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<tr>
<td>SOC 400</td>
<td>Organizational Analysis</td>
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<tr>
<td>SOC 426</td>
<td>Social Legislation and Social Policy</td>
<td>4</td>
</tr>
<tr>
<td>URBS 350</td>
<td>Cities of the Third World</td>
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TOTAL UNITS IN THE MAJOR (49-52)

GENERAL EDUCATION (52 UNITS)

ADDITIONAL UNITS (14-17 UNITS)

TOTAL UNITS REQUIRED FOR DEGREE: 124

REQUIREMENTS FOR THE MINOR IN URBAN STUDIES AND PLANNING

Required Courses: 13 units

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<th>Course</th>
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<tr>
<td>URBS 150</td>
<td>The Urban Scene</td>
<td>3</td>
</tr>
<tr>
<td>URBS 310</td>
<td>Growth and Development of Cities</td>
<td>3</td>
</tr>
<tr>
<td>or URBS 350</td>
<td>Cities of the Third World</td>
<td>3</td>
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<tr>
<td>URBS 450</td>
<td>Urban Problems Seminar</td>
<td>4</td>
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<tr>
<td>URBS 490C</td>
<td>Field Work</td>
<td>3</td>
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ELECTIVES: 9 UNITS

Choose three of the following: (No more than one course can be taken outside the Program.)

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<thead>
<tr>
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<td>URBS 340AB, AL, BL</td>
<td>Research Methods &amp; Lab</td>
<td>6</td>
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<tr>
<td>URBS 400</td>
<td>Urban Environmental Systems</td>
<td>3</td>
</tr>
<tr>
<td>URBS 420</td>
<td>Urban Behavioral Systems</td>
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</tr>
<tr>
<td>URBS 430</td>
<td>Urban Administrative Systems</td>
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<td>URBS 440</td>
<td>Community Based Urban Design</td>
<td>3</td>
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<tr>
<td>URBS 494C</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>AAS 440</td>
<td>Urbanization and Asian American Communities</td>
<td>3</td>
</tr>
<tr>
<td>CHS 360</td>
<td>Political Organization of the Barrio</td>
<td>3</td>
</tr>
<tr>
<td>CHS 361</td>
<td>Urbanization and the Chicana/o</td>
<td>3</td>
</tr>
<tr>
<td>PAS 300</td>
<td>Contemporary Issues in the African American Community</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS REQUIRED FOR MINOR: 22

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**COURSE LIST**

**LOWER DIVISION**

**150. THE URBAN SCENE (3) (Formerly 250)**

A lecture-discussion course on the problems of the modern city and its environment. Subjects discussed include economics, culture, architecture, politics, crime, pollution, planning, history, etc. (Available for General Education, Social Sciences.)

**UPPER DIVISION**

**310. GROWTH AND DEVELOPMENT OF CITIES (3)**

An examination of the forces contributing to the form, development, and structure of cities. Emphasis on urban areas of the United States. (Available for General Education, Social Sciences.)

**340A. URBAN RESEARCH METHODS (3-3)**

Prerequisite: Upper division standing. Identification and examination of information sources used by public and private clients in urban research; introduction to appropriate research designs and methodologies; collection and analysis of data. Emphasis on student generated research design, field work and final project. Two hours lecture and two hours methods activity.

**350. CITIES OF THE THIRD WORLD (3)**

Prerequisite: Upper division standing and completion of lower-division writing requirement. A cultural analysis of Third World urbanization and counter-urbanization with emphasis on particular aspects of urban life and social change in Africa, Latin America, the Middle East, and Southeast Asia. (Available for General Education, Comparative Cultural Studies.)

**380. LOS ANGELES: PAST, PRESENT, FUTURE (3)**

(SAME AS HIST AND POLS 380)

A multidisciplinary investigation of the Los Angeles urban area -- its patterns of population and resources distribution; its historical, economic, social and cultural developments; and policies models designed to cope with its problems and to develop its potential as an ethnically diverse metropolis on the Pacific Rim. Application of social science methodology. Series of faculty and guest speakers, weakly discussion sessions, field trips. (Available for General Education, Social Sciences.)

**400. URBAN ENVIRONMENTAL SYSTEMS (3)**

Prerequisites: Completion of the lower-division writing requirement and Economics 200 or 300. The relationships between people and technology in the city; the application of resources to supply such urban needs as transportation, waste disposal, water and communication. Technological change and forecasting.

**420. URBAN BEHAVIOR SYSTEMS (3)**

Prerequisites: Upper division standing and completion of the lower-division writing requirement. The study of human behavior as it is affected by basic human needs and urban environmental conditions, and an examination of alternative strategies for restructuring social institutions and social behavior.

**430. URBAN ADMINISTRATIVE SYSTEMS (3)**

Prerequisites: Upper-division standing and completion of the lower-division writing requirement. Analysis of public and private institutions through which modern urban
society functions, with emphasis on the structure and
dunctions of cities from the perspective of their
organizational life.

440. COMMUNITY-BASED URBAN DESIGN (3)
Prerequisite: URBS 340AB, AL, BL, or other equivalent
research methods courses. The study of current urban
design techniques and policies and their application to local
communities and neighborhoods.

450. URBAN PROBLEMS SEMINAR (4)
Prerequisites: Senior standing and completion of the lower-
division writing requirement. An advanced seminar on
problems and issues in urban and environmental studies.
Interdisciplinary symposia and opportunities for critical
appraisal and exchange of ideas on special studies
developed in or stemming from field work. Emphasis on
case studies and other problem approaches.

490ABC. FIELD WORK (1-2-3)
Prerequisites: Urban Studies 340AB. An introduction to
urban field analysis and interview techniques through
supervised field work and individual projects.

494ABC. INTERNSHIP (1-2-3)
Prerequisite: Senior standing. Upon prior approval by the
Internship Coordinator, students may earn up to 6 units for
professional experience in a planning department, social
service agency, or other public or private organization
dealing with urban problems.

496A-Z. EXPERIMENTAL COURSES IN URBAN STUDIES AND
URBAN PLANNING (1-3)
Prerequisite: Upper division standing. Selected Topics in
Urban Studies with course content to be determined.

499. INDEPENDENT STUDY (1-3)
WOMEN'S STUDIES
Chair: Elizabeth A. Say

COLLEGE OF HUMANITIES
Department Office: SH 103
Phone: (818) 677-3110
Secretary: Liza Kraay

FACULTY: Marta Lopez-Garza, Sheena Malhotra, Elizabeth A. Say (Chair), Nayereh Tohidi.

DEGREE OFFERED: B.A.

ACADEMIC ADVISEMENT: Advisement is available from any of the full-time faculty.

THE MAJOR: The Women's Studies Department is both interdisciplinary and cross-cultural, drawing its information and resources from many different disciplines and societies. The courses cover a wide historical and topical range of women's lives and activities: their contribution to social movements, governments, social institutions, the workforce, culture and the arts, family life, and religion. The courses underscore diversity: gender, race, ethnicity, and class, and prepare both women and men students to understand in theoretical and practical terms the dynamics of women's personal and public lives. The major provides a background for advanced degrees in Women's Studies and in traditional fields such as law, counseling, health care, education, communication, and politics.

CAREERS: Specialized career preparation may be obtained by combining the Women's Studies major with many different minors. The department provides a useful background for the study of law, health care, education administration, politics, business, psychology, the arts, and communication. Specifically, courses in the major may help obtain jobs in the mass media, public relations, social work, counseling, teaching, and government, as well as new fields, such as women's career training.

REQUIREMENTS FOR THE B.A. DEGREE (42-45 UNITS)
LOWER DIVISION REQUIRED COURSES (6 UNITS)
WS 200 Introduction to Women's Studies ...............3
WS 210 Women, Work, and the Family .................3
Either 200-level course is a prerequisite to WS 300

UPPER DIVISION REQUIRED COURSES (12 UNITS)
WS 300 Women as Agents of Change ..................3
WS 301 Feminist Theories and Methods ...............3
WS 300 & WS 301 are prerequisites to WS 305SL
WS 305SL Women's Studies Community Service ......3
WS 400 Senior Seminar in Women's Studies ..........3
WS 400 should be taken in the last year of a student's CSUN career; it serves as the capstone course.

UPPER DIVISION ELECTIVES (12 UNITS)
WS 310 Latin American Women Writers ...............3
WS 320 Women and Urban Life .........................3
WS 330 Women in the Jewish Experience .............3
WS 340 Women, Gender, and Global Development ....3
WS 350 Gender, Race, Class, and Sexuality .........3
WS 360 Feminist Ethics ....................................3
WS 495 Selected Topics in Women's Studies ........3

9 units of elective must be taken from the list above; 3 units may be taken outside the department in consultation with a Women's Studies advisor.

Students may, with the approval of the Women's Studies chair, receive credit for up to 3 units of independent study, which may be counted as an elective in the major.

CONCENTRATION
All students must also complete a 12-15 unit concentration from the list below, or may design a concentration in consultation with the Chair of Women's Studies.

PHILOSOPHY & RELIGION (15 UNITS)
ANTH 308 Women, Sex Roles and Culture ............3
JL/WS 330 Women in the Jewish Experience ........3
PHIL 338 Philosophy of Religion .....................3
PHIL 348 Philosophy and Feminism ..................3
RS 304 Women and Religion ............................3

RACE & ETHNICITY (15 UNITS)
AAS 340 Asian American Women .....................3
CHS 246 Contemporary Issues of the Chicana .......3
or
CHS 346 History of the Chicana/Mexicana ...........3
or
CHS 365 Third World Women and the Chicana .......3
JS/WS 330 Women in the Jewish Experience ........3
LSRC 330 Women, Leisure, & Ethnicity in the U.S. ..3
PAS 324 Black Women In Contemporary Times .......3

COMMUNICATION & MEDIA (15 UNITS)
COMS 360 Communication and the Sexes ..............3
COMS 435 Rhetoric of Women ..........................3
JOUR 371 Women and the Media .......................3
JOUR 372 Diversity and the Media ....................3
RTVF 413 Women as Filmmakers ........................3
or
ART 468 Women in the Visual Arts ....................3

LAW & PUBLIC POLICY (15 UNITS)
BLAW 391 Women and the Law ..........................3
HIST 349 Women in American History ...............3
POLS 350 Great Questions in Politics ...............3
POLS 361 Introduction to Public Policy ..............3
POLS 448 Women and Politics in the U.S. and the World .................3

SOCIAL WORK & WELFARE (15 UNITS)
FES 340 Marriage and Family Relations ..............3
HSCI 231 Women and Health ..........................3
SOC 324 Sociology of Sex Roles .......................3
SOC 325 Sex Roles and Work ..........................3
SOC 357 Introduction to Social Work Practice .......3

CRIMINOLOGY (15 UNITS)
BLAW 391 Women and the Law ..........................3
SOC 304 Sociology of Deviance .......................3
SOC 324 Sociology of Sex Roles .......................3
SOC 355 Criminology ....................................3
SOC 496 Women and Crime .............................3

LITERATURE (15 UNITS)
ENGL 431 Images of Women in Literature ............3
ENGL 433 Women Authors .............................3
ENGL 434 19th-Century Women Novelists ............3
Choose two courses from the following list:
CHS 340 Asian American Women .....................3
FLIT 455 Women Writers of Asia .....................3
PAS 346 Contemporary Black Female Writers .......3
WS 310 Latin American Women Writers ...............3

TOTAL UNITS IN MAJOR (42-45 UNITS)
GENERAL EDUCATION (52 UNITS)
TITLE 5 (6 UNITS)
ADDITIONAL UNITS (24-27 UNITS)
TOTAL UNITS REQUIRED FOR THE DEGREE: 124

REQUIREMENTS FOR THE MINOR (21 UNITS)

REQUIRED COURSES (12 UNITS)

- WS 200 Introduction to Women’s Studies .................................. 3
- or
- WS 210 Women, Work, and the Family .................................. 3
- WS 300 Women as Agents of Change ........................................ 3
- WS 301 Feminists Theories and Methods .................................. 3
- WS 400 Women & Power: Senior Seminar in Women’s Studies .......... 3

ELECTIVES (9 UNITS)

Select a course from each of the following sections. At least six units of electives must be at the 300- or 400-level. Experimental and Selected Topics courses, upon approval of the Women’s Studies Chair, may fulfill electives required for the Women’s Studies minor. In addition, minors may substitute WS305SL (Women’s Studies Community Service) for any one of the required electives.

HISTORY, PHILOSOPHY, AND INSTITUTIONS

- BLAW 391 Women and the Law .................................................. 3
- HSCI 231 Women and Health .................................................. 3
- HIST 349 Women in American History ...................................... 3
- HIST 350 History of Women .................................................... 3
- LSRK 330 Women, Leisure and Ethnicity in the U.S. .......... 3
- PHIL 348 Philosophy and Feminism .......................................... 3
- POLS 448 Women and Politics .................................................. 3
- RS 304 Women and Religion .................................................... 3
- SOC 324 Sociology of Sex Roles .............................................. 3
- SOC 325 Sex Roles and Work ................................................... 3
- WS 320 Women and Urban Life .............................................. 3
- WS 360 Feminist Ethics ........................................................... 3

ETHNIC STUDIES AND DIVERSITY

- AAS 340 Asian American Women ............................................. 3
- ANTH 308 Women, Sex Roles, and Culture ................................ 3
- CHS 246 Contemporary Issues of the Chicana .......................... 3
- CHS 346 History of the Chicana/Mexicana ............................... 3
- CHS 365 Third World Women and the Chicana......................... 3
- JS 330 Women in the Jewish Experience ................................. 3
- PAS 324 The Black Woman in Contemporary Times............... 3
- WS 340 Women, Gender, & Global Development ...................... 3
- WS 350 Gender, Race, Class and Sexuality .............................. 3

HUMANITIES, COMMUNICATION, AND THE ARTS

- ART 468 Women in the Visual Arts .......................................... 3
- ENG 369 Lesbian Writers ......................................................... 3
- ENG 431 Images of Women in Literature ................................... 3
- ENG 433 Survey of Women Authors .......................................... 3
- ENG 434 Nineteenth-Century Women Novelists ....................... 3
- JOUR 371 Women and the Media .............................................. 3
- RTVF 413 Women as Filmmakers .............................................. 3
- COMS 335 Studies in Women’s Rhetoric ................................... 3
- COMS 360 Communication and the Sexes .................................. 3
- COMS 435 Rhetoric of Women ................................................... 3
- WS 310 Latin American Women Writers .................................... 3

INDIVIDUALIZED WORK

Students may, with approval of the Women’s Studies Chair, receive credit for up to 3 units of independent study, which may be counted as an elective in the minor.

TOTAL UNITS IN MINOR (21 UNITS)

COURSE LIST

LOWER DIVISION

200. INTRODUCTION TO WOMEN’S STUDIES (3)

An interdisciplinary study of women in American society, including such topics as social conditions, laws, symbols, values, communication, and power. (Available for General Education, Comparative Cultural Studies.)

210. WOMEN, WORK, AND FAMILY (3)

Focuses on historical and contemporary relationship between home and community work and the marketplace within which women perform. Examines the differences in experience of work and family as these are shaped by race, class, gender and sexuality. (Available for General Education, Comparative Cultural Studies.)

UPPER DIVISION

300. WOMEN AS AGENTS OF CHANGE (3)

Prerequisite: Women’s Studies 200 or 210, or consent of instructor, and completion of the lower-division writing requirement. New definitions and options for women within the family, community, and society. Students study and report on women’s resources and organizations for change within the local community as well as on the national and international scene. (Available for General Education, Comparative Cultural Studies.)

301. FEMINIST THEORIES AND METHODS (3)

Prerequisite: WS 200, 210 or 300, or consent of instructor. Course explores different kinds of feminist theories and methodologies that emerge out from or complement feminist theories.

305SL. WOMEN’S STUDIES COMMUNITY SERVICE (3)

Prerequisite: WS200 or 210 and WS300. Students work in a variety of community settings—educational, political, and/or social service agencies—to apply theoretical understanding of Women’s Studies to practical and concrete community situations which affect women’s daily lives. Includes regular class meetings.

310. LATIN AMERICAN WOMEN WRITERS (3)

Prerequisite: Completion of the lower-division writing requirement and WS 200 or 210, or permission of instructor. This course examines the development of Latin American women’s writing within a range of essayist vues, discourse that, until recently, have been “invisible” as cultural critiques of the relation of national and cultural identity that were authored predominantly by male writers. Through women’s essay-writing, the course explores emergent tradition of feminist critique offering alternative views of the role of women within the political, social, and cultural dynamics of Latin America. Readings include a range of essayists, with emphasis on the twentieth century. Regular writing assignments will be given. (Available for G. E., Comparative Cultural Studies.)

320. WOMEN AND URBAN LIFE/URBAN SPACE (3)

Prerequisite: WS200 or 210 or consent of instructor. Course examines the gendered use of space and how women have balanced and crossed public and private spheres. Examines women and urban issues from the micro-level/community-based organizations and grassroots mobilizations to the macro-level (national and international states and corporate entities).

330. WOMEN IN THE JEWISH EXPERIENCE (3)

Prerequisite: Completion of the lower-division writing requirement. This course examines a minority culture: women in Jewish communities from antiquity to the present.
The course perspective is international, with significant focus on Mediterranean, West Asian and African Jewish societies. Contemporary topics such as sexuality, creative ritual, Israeli/Palestinian politics, and body image will also be discussed. Same as JS330. (Available for General Education, Comparative Cultural Studies, subsection F.2, International Cross-Cultural Studies.)

340. WOMEN, GENDER, AND GLOBAL DEVELOPMENT (3)
Prerequisite: WS200 or 210 or consent of instructor. Course examines women’s roles and concerns in socio-economic and political development processes. Positive and negative effects of colonization, post-colonial modernization, democratization, and capitalist and socialist development strategies on women in the “Third,” “Second,” and “First” World countries will be examined.

350. GENDER, RACE, CLASS, AND SEXUALITY (3)
Prerequisite: WS200 or 210 or consent of instructor. Course examines historical and contemporary issues surrounding the diversity of women living in the U.S. Gender, race, socio-economic class and sexuality are presented as central theoretical concepts and as conditions of experience that affect all women and men, as well as being primary categories of social relations for us all.

360. FEMINIST ETHICS (3)
Prerequisite: WS200 or 210 or consent of instructor. Course examines debates about whether an essential “women’s” morality exists and considers what is at stake in these arguments. Course examines the impact of gender on categories of moral virtue and ethical agency. Raises the question of how (and if) women’s experience has created a moral vision which challenges the dominant ethical norms of U.S. culture.

400. SENIOR SEMINAR IN WOMEN’S STUDIES (3)
Prerequisite: WS200 or 210 and 301, or consent of instructor. Variable themes. With emphasis on examination of multiple levels of women’s relationship to power cross-culturally (economic, political, social, personal, symbolic), students produce research paper(s) which integrate the multidisciplinary field.

495. SELECTED TOPICS IN WOMEN’S STUDIES (3)
Prerequisites: completion of WS200, WS210 and WS300. Intensive study of selected themes or figures in Women’s Studies. Topics will change from semester to semester.

499A-C. INDEPENDENT STUDY (1-3)
APPENDICES
## Categories of Enrollment

### Concurrent Enrollment

At Other California State Universities: CSUN students may register concurrently at CSUN and other campuses of the California State Universities. Applications for intrasystem concurrent enrollment are available at the Office of Admissions and Records with no further application fee. Such concurrent enrollment is valid for one term only. Intrasystem Concurrent Enrollment applicants are not eligible to enroll in classes within impacted programs.

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<th>Concurrent Enrollment</th>
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<td>Non-Attendance Policy</td>
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<td>Administrative Action on Prerequisites</td>
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<td>Simultaneous Enrollment In Classes</td>
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<td>Complete Withdrawal From The University</td>
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<td>Medical Withdrawal</td>
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<td>Transcripts of CSUN Courses</td>
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<td>Catalog Requirements Under Which an Undergraduate Student Graduates (Catalog Rights)</td>
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<td>Alan Pattee Scholarships</td>
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<td>Debts Owed to the Institution</td>
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<td>Policy on Prosecution for Theft and Bad Checks</td>
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</tbody>
</table>

### AT ANOTHER INSTITUTION:
Concurrent enrollment at this University and another institution is ordinarily permitted if the total units pursued in the joint programs of study do not exceed the maximum semester or summer session study load authorized at the University. Students enrolling concurrently should be aware of the policies governing acceptance of transfer credits as described in this catalog. Students must have an official transcript forwarded to the Admissions and Records Office after completing courses at another institution.

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<thead>
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<th>AT ANOTHER INSTITUTION:</th>
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### APPENDICES - ENROLLMENT REGULATIONS

**Appendix A - Enrollment Regulations**

**Categories of Enrollment**

**Concurrent Enrollment**

At other California State Universities: CSUN students may register concurrently at CSUN and other campuses of the California State Universities. Applications for intrasystem concurrent enrollment are available at the Office of Admissions and Records with no further application fee. Such concurrent enrollment is valid for one term only. Intrasystem Concurrent Enrollment applicants are not eligible to enroll in classes within impacted programs.
OPEN UNIVERSITY STUDENTS IN REGULAR CLASSES: The maximum amount of credit through Special Session courses which may be allowed toward the bachelor's degree is 24 units. Special Session course credits apply toward the residence requirement at California State University, Northridge. Extended Learning Courses numbered 800 DO NOT carry any credit toward CSUN graduation or credential requirements. Extended Learning students may be permitted Open University enrollment in regular University classes (as permitted by Section 40301, Article 4, Title 5) according to the following guidelines:

1. Each academic department shall decide whether to participate in Open University enrollment and which courses are appropriate for Open University enrollment.
2. If a department has agreed to participate in Open University enrollment, an individual instructor nonetheless retains the right to accept or reject Open University enrollment.
3. Open University enrollment normally may not be accepted in a class that has reached the maximum enrollment.
4. Extension students seeking Open University enrollment in regular classes are responsible for providing evidence of fulfilling academic requirements to the department(s) and instructor(s). The instructor shall determine whether a student is academically qualified.
5. Extension students should attend the first meeting(s) of the class but shall not be accepted as Open University students before the first class meeting of the second week of classes and after academic eligibility is determined. Open University enrollment of extension studies shall not exceed 50% of the schedule class size.
6. Extension students admitted in regular classes shall follow the same registration procedures and shall receive the same credit as they would receive in an extension class.
7. Open University enrollment of extension studies in regular classes does not constitute admission to the University; neither does it entitle extension students to student services available to regular students with the exception of library privileges. (Additional information is available in the Office of the Dean of the College of Extended Learning.)

CALIFORNIA’S CROSS ENROLLMENT PROGRAMS

WHAT IS CROSS ENROLLMENT?
Undergraduate students enrolled at California State University, Northridge may enroll without formal admission and without payment of additional State University Fees in one course each academic term at a campus of the University of California or participating campuses of the California Community Colleges on a space available basis.

HOW CAN I QUALIFY?
You are eligible to cross enroll if you have met all of the following requirements:
- Are a California Resident.
- Completed at least one regular term at CSU Northridge as a properly enrolled (matriculated) student.
- Paid appropriate enrollment fees at CSU Northridge for the current term.
- Enrolled at CSU Northridge for a minimum of six units for the current term.
- Earned a grade point average of 2.0 (C average) for college work completed.
- Completed appropriate academic preparation for the course you intend to take as determined by the host campus. The host campus is where you will take the additional class.

ENROLLMENT CONDITIONS

- Approval for cross enrollment is valid for only the term specified and is subject to space availability, deadlines, registration procedures and priorities of the host campus. You must reapply for each term you wish to cross enroll.
- You will not be charged additional course enrollment fees. However, host campuses may charge a $10 administration fee for each term, and you will have to pay any additional fees required of other students such as lab, materials, computer use, etc.
- Records of credit earned through cross enrollment are maintained at the host campus. You can request a transcript to be sent to CSU Northridge to ensure course credit, for financial aid purposes, etc.
- If you want credit earned through cross enrollment to apply to your degree, consult your advisor to ensure that host campus courses meet CSU Northridge degree requirements prior to enrollment at the host campus.
- The program is limited to baccalaureate courses.
- Financial aid is available only through CSU Northridge for qualifying students. Units taken at both campuses may be combined to establish financial aid. Check with the CSU Northridge Financial Aid Office for details.
- Participating in host campus student activities and use of campus facilities is subject to any limits set by the host campus. Health services at the host campus are limited to emergencies.
- You are responsible for host campus parking fees and regulations.
- If you drop the host campus class, you must follow the drop procedure for that campus.

WHERE TO GET MORE INFORMATION
Further information and applications for cross enrollment are available in Admissions and Records, (818) 677-3700.

LEAVE OF ABSENCE
To encourage continuing students with satisfactory scholastic performance to return to CSUN following an absence, the University will automatically place qualified
resident and nonresident students on a Leave of Absence provided they:

1. were matriculated students in the semester immediately prior to the beginning of the leave;
2. were not disqualified at the close of the semester;
3. did not receive an undergraduate degree at the end of the preceding regular or summer term at CSUN.

Eligible students who fail to enroll in the first three weeks or who withdraw during the first two weeks are placed on leave for that semester. If they fail to register in the following semester, they are granted an additional semester of leave. Foreign students with J or F visas, while eligible for leave, require the approval of the International Student Advisor.

Classified graduate students in degree programs should contact their departments before the end of their last semester of attendance. (Consult the Graduate Programs sections under Academic Leave in this catalog.)

Continuing students who do not enroll after the two semesters of leave, must reapply for admission. (See the section on Readmission in this catalog.)

COOPERATIVE PROGRAM IN FOREIGN LANGUAGES AND LITERATURES

The Cooperative Program in Foreign Languages and Literatures gives CSUN students the opportunity, without additional fees, to take courses in foreign languages not available on this campus but offered at UCLA. In order to take advantage of this cross-enrollment option, students must be academically qualified and must have valid reasons for wanting to take the courses. Students are strongly advised to enroll in the Fall term when beginning classes are offered. The enrollment process must be completed prior to September 10. Questions regarding qualifications and enrollment procedures should be referred to the chair of the Department of Modern and Classical Languages and Literatures.

CHANGES OF OFFICIAL ENROLLMENT

CHANGE OF PROGRAM

Students are permitted to change their initial enrollment by following the University’s Change of Program procedure. Ordinarily a student may add, drop or change the basis of grading in a class by filing a change of program form with the Office of Admissions and Records during the Change of Program period. Some basic information is provided below. For additional details concerning approvals required, time deadlines and fees, consult the current Schedule of Classes. Forms and other procedural information may be obtained from the Office of Admissions and Records.

ADDING. The last day to add a class is the end of the third week of instruction. Approval of the course instructor on the Change of Program form is required, once the second week of instruction begins.

CHANGING. Changing the basis of grading from regular letter grading to Credit/No Credit or conversely may be accomplished only during the first three weeks of instruction through the Change of Program form.

DROPPING. Students are responsible for attending all courses in which they are registered. During the first two weeks of instruction, students may withdraw without penalty and without the course instructor’s approval by accessing TTR.

NON-ATTENDANCE DOES NOT CONSTITUTE WITHDRAWAL.

Students who must withdraw after the twentieth day of instruction and prior to the last three weeks of instruction for reasons clearly beyond their control, and who can justify serious and compelling circumstances, may withdraw without academic penalty by securing the approval of the instructor and the appropriate campus officials, as designated in the current Schedule of Classes. The Grade of “W” will be assigned for withdrawals after the twentieth day of instruction.

Withdrawals are not permitted during the final three weeks of instruction or thereafter except in cases such as accident or serious illness where the cause of the withdrawal is clearly beyond the student’s control and the assignment of an incomplete is not practical. Ordinarily it is expected that withdrawals during this period will be complete withdrawals from the University except in circumstances where sufficient work has been completed in one or more of the courses to permit an evaluation of coursework and an assignment of a grade. Students wishing to withdraw under these circumstances must obtain the approval of the appropriate instructor, the course department chair, the dean of school of the student’s major department, and the Associate Vice President. Students may obtain forms and procedural information at the Office of Admissions and Records.

CHANGE OF MAJOR OR MINOR

The major under which students enter the University is their official major. Undergraduate students in good standing, enrolled or on official leave may, with prior departmental approval, change their major and/or minor when they consider it to be in their best educational interest. Students changing their major or minor fields of study, and students changing from undeclared or undecided majors to decided majors, should be aware that they may be required to complete the major/minor requirements in effect at the time of change. Undergraduates planning to add a double major must select both majors within a single Bachelor of Arts or Bachelor of Science degree.

A request for a change of major or minor cannot be officially recognized without departmental approval, submission of the Application for Change of Undergraduate Major or Minor form to the Office of Admissions and Records. The form and procedural information may be obtained at the Office of Admissions and Records.

In order to have a new major reflected on the TTR packet for the Fall semester, students must submit their change of major by the end of the third week of March. The deadline to file a major change for the Spring semester is the end of the first week of October.

Students who plan to enter an impacted major during a given semester must file their application no later than the end of the fourth week of instruction, in the preceding semester. A change to an impacted major will not be indicated on the student’s file until the student has officially been admitted to the new major department.

Graduate students follow a separate procedure which is outlined under “Change of Objective” in the Graduate Programs section of the catalog.

DECLARATION OF MAJOR BY 60 UNITS

Students are expected to declare their major by the conclusion of the semester in which they complete 60 units. Each semester, students who have not declared a major and
have completed 60 units toward the degree, will be required to obtain academic advisement at the Advising Resource Center/EOP. Until students have obtained such advisement, they will not be able to register through TTR.

**NON-ATTENDANCE POLICY**

A student who is absent from the first two class meetings loses the right to remain on the class roll, UNLESS the instructor is notified that the absence is temporary. The student who has lost the right to remain in the class must formally withdraw from the class, following University procedures and deadlines; otherwise the instructor will assign a grade of “U” which counts as a grade of “F” in computing grade point averages.

If no instructor was assigned to the course in advance, the student must notify the chair of the department that his or her absence from the class will be temporary.

**ADMINISTRATIVE ACTION ON PREREQUISITES**

While it is the student’s responsibility to drop classes, the University may withdraw a student, within the first three weeks, from a course if he or she fails to meet the prerequisite(s) or other requirements as indicated in the catalog. These prerequisites include:

1. Completion of prior coursework.
2. Passing of qualifying examinations.
3. Class year standing.
4. Admission to, or special requirements of, special programs such as Honors or Credential.
5. Completion of prior coursework with a required minimum credit.
6. Consent of instructor.

Such an Administrative Withdrawal may be initiated only by the Associate Dean of the College, upon recommendation from the instructor.

**SIMULTANEOUS ENROLLMENT IN CLASSES**

Students may not enroll simultaneously in any two or more classes meeting during the same time period.

**COMPLETE WITHDRAWAL FROM THE UNIVERSITY**

Students wishing to withdraw completely from the University at any time during the semester must secure the appropriate approvals. (See item on Dropping in this section or in the Schedule of Classes for additional details.) Students completely withdrawing should obtain all materials and instructions from Admissions and Records.

Students wishing to completely withdraw from the University prior to or during the first two weeks of instruction may do so, without securing approval from their instructors, by accessing TTR. Withdrawals made after the second week of instruction, require appropriate approvals.

Students withdrawing at this time must also submit their Class Confirmation Mailer to Admissions and Records. Under some circumstances additional clearances may be required from the Kinesiology FE Equipment Room, Financial Aid Office and the Veterans Office. Students eligible for a refund must file a separate application for refund with Student Financial Services. New and returning students who completely withdraw from the University prior to the end of the third week of instruction are not considered continuing students and must reapply to attend any subsequent semester. Those students who are continuing from the previous semester will automatically be placed on a Leave of Absence if they meet the criteria. (See Leave of Absence under Categories of Enrollment for further information.)

Students completely withdrawing after the third week of instruction will be considered continuing students for the next semester. **Under no circumstances does nonattendance nor the stopping of payment of a check constitute a withdrawal from the University.**

**MEDICAL WITHDRAWAL**

Students seeking medical withdrawal may complete the necessary forms at the Student Health Center. Upon receipt of verifying information from a student’s personal physician, the Director of the Health Center will evaluate the case. If a medical withdrawal is granted, reevaluation by the Health Center may be required prior to readmission.

A medical withdrawal usually constitutes complete withdrawal from the University for the academic period in question. In cases where medical evidence and the specific physical demands and environment of the classes overwhelmingly support withdrawal from only a portion of a student’s program of study, partial withdrawals will be permitted. Medical evidence and the specific physical demands and environment of the classes overwhelmingly support withdrawal from only a portion of a student’s program of study, partial withdrawals will be permitted. Medical withdrawals will be granted solely for established medical purposes prior to a student taking final exams. Medical withdrawals due to illness in the family will be granted only if the attending physician stipulates that the student is needed to care for the family member. A medical re-evaluation is frequently required prior to readmission. The necessary forms for a medical withdrawal can be obtained at the Student Health Center.

Retroactive medical withdrawals will be limited to one calendar year. Medical withdrawals due to illness in the family will be granted only if the student is needed to care for the family member.

**TRANSCRIPTS OF CSUN COURSES**

Official transcripts of courses taken at CSUN are issued only with the written request of the student concerned. (See the Fees list in the beginning of this section.)

Transcripts of work taken at other institutions will not be issued.

The University reserves the right to withhold issuing the transcript of any student not in good financial standing with the University.

**GRADE REPORTING**

Approximately two weeks following the end of finals, students may access the Touch Tone System to have their grades read to them. Any discrepancies should be reported to Admissions and Records so that they may be promptly investigated. The grade report reflects cumulative units earned, including units that may not be applicable to degree requirements. Cumulative baccalaureate level degree units earned are provided on the DARS Audit and when a graduation evaluation is completed. In some cases it may be necessary to contact individual instructors to resolve grade reporting errors. With the exception of a removal of an Incomplete within the prescribed period, no changes to the Permanent Record Card will be made after a degree has been awarded.
GRADE CORRECTION PROCEDURE
The University considers all grades reported at the end of each semester to be final. Students are responsible for reviewing their grades for accuracy before the end of the subsequent semester. Students who believe they have received a grade in error should promptly ask the instructor to verify and, if appropriate, correct the grade.
Grades received for the semester of graduation will be considered sealed 60 days after the official date of graduation. However, the deadline to request a grade correction is the end of the semester following that in which the grade was assigned.
If the instructor is absent from campus during the subsequent semester, students should promptly consult with the department chair about the grade in question. If the department chair is unable to contact the instructor, he/she will notify the Associate Dean of the College in writing that an extension of the grade correction deadline, up to one year, has been granted.

CATALOG REQUIREMENTS UNDER WHICH AN UNDERGRADUATE STUDENT GRADUATES
(CATALOG RIGHTS)
An undergraduate student remaining in attendance in regular sessions at any California Community College, at any CSU campus, or any combination of California community colleges and campuses of the CSU, may for purposes of meeting graduation requirements elect to meet the requirements in effect at the campus from which the student will graduate either (1) at the time the student began such attendance, or (2) at the time of entrance to the campus, or (3) at the time of graduation except that substitutions for discontinued courses may be authorized or required by the proper CSUN authorities. This applies only to graduation requirements and not to procedures or other regulations. Students changing their major or any minor field of study, and students changing from undeclared or undecided majors to declared majors should be aware that they may be required to complete the major or minor requirements in effect at the time of change, at the discretion of the Departments or Programs. They will be allowed, however, to continue with previously established non-major requirements, such as the General Education requirements.
Attendance is defined, for purposes of this regulation, as at least one semester or two quarters in each calendar year. Attendance shall not be considered interrupted by absence, not to exceed two years, related to an approved educational leave or for attendance at any accredited institution of higher learning.

STUDENT RESPONSIBILITY FOR CATALOG INFORMATION
The Catalog represents the intention of the University at the time of its publication to present certain academic programs and requirements to its students. With the passing of time modifications may be made—the addition of some offerings and the deletion of others—in which case some opportunities for students may be eliminated or other opportunities may be presented. The University reserves the right to make such additions, deletions and modifications as circumstances may dictate.
Some sections of the current catalog such as Registration and Student Conduct Code pertain to all students, irrespective of when they entered the University. Some sections pertain only to certain categories of students such as Credit/No Credit grading (for undergraduate rather than graduate students) and Good Standing (with different averages applying for undergraduate and graduate students). In cases of doubt, it is the student’s responsibility to obtain clarification from the appropriate department chair or dean whether or not a particular regulation or requirement applies.

CREDIT BY CHALLENGE EXAMINATION TAKEN AT CSUN
Currently enrolled undergraduate students not on probation who are especially qualified through experience or private instruction may petition to earn credit by challenge examination in selected courses designated by each department. A challenge examination provides for the awarding of academic credit through successful completion of an examination of a specific catalog-listed course. Selected laboratory and activity courses in which student participation is an integral part of the learning experience shall not be subject to challenge. Each department shall have the sole responsibility for designating which courses may be challenged by examination.
Challenge examinations are given under the following guidelines:
1. A student may not petition for Challenge Examination in a course if he or she does not have the prerequisites.
2. A student may not petition for more than one course in one department during a given semester.
3. An approval of an application for Challenge Examination shall expire if the examination has not been completed by the end of the semester.
4. Students may attempt the Challenge Examination in a given course only once.
5. Approval for Challenge Examination will not be given for a course if the student has already received credit for a similar but more advanced course.
6. Challenge Examinations may not be used to meet any provisions of the Repeat Course Policy.
7. A student electing the Credit/No Credit grading option on enrollment for Challenge Examination will be assigned a Credit grade for work equivalent to A, A-, B+, B, B-, C+, C; “No Credit” will be assigned for work equivalent to C-, D+, D, D-. F. CR/NC grades are not included in the calculation of the grade point average.
8. The determination of eligibility for Challenge Examination rests ultimately with the department involved, including exceptions to the guidelines.

PROCEDURES: Upon receipt of the TTR packet, a student wishing to challenge a course by examination should consult with the chair of the department offering the course. If the chair approves the request, the ticket number will be assigned, and the letters “XM” or “X” will be added to the course number. The student can then register for the challenge exam course during TTR.
During the add/drop period the student should use a Change of Program form. The words “Challenge Exam” should be printed across the top of the form, and the form should not be used for any other schedule changes. The form must be filed at the Office of Admissions and Records and all required fees paid before the end of the third week of instruction.

APPEAL OF UNDERGRADUATE UNIVERSITY REGULATIONS
Undergraduate students seeking to appeal regulations other than course requirements in their major or minor should obtain the Undergraduate Petition form from Admissions and Records and return the completed form and required
fee to A & R for review and consideration by appropriate
campus officials. Seniors who have applied for graduation
and are requesting substitution or waiver of requirements in
their major or minor should obtain the Department
Substitution and Waiver form also available at A & R and
present the completed form to their department chair. The
chair will return the form to the student’s Graduation
evaluator in Admissions and Records.
Many regulations are not subject to appeal or amendment
because of provisions of Title 5 of the California Code of
Regulations. Examples of Regulations that are not subject to
modification by the University include limitations on
extension and community college credit and the C average
required for graduation.
For information on appeal of Graduate University
Regulations, see Graduate Programs section of the catalog.

STANDARDIZED BREAKS IN CLASSES
Continuous lecture classes that last two or more hours
should incorporate a break at a predetermined time based
on any number of criteria, such as content of the lecture,
length of the class, and physical demand placed upon
support service personnel for deaf and disabled students.
Laboratory classes or classes in which the student
traditionally works independently may or may not require a
break, depending on the judgment of the faculty.
Depending on the uniqueness of each class and the
demands placed upon students (and support personnel),
professors determine scheduled breaks by utilizing their
own solution or one of the following options:
1. Courses meeting two hours: one break of ten minutes
between the first and second hours.
2. Courses meeting two and one-half hours: one break of
ten minutes during the middle of the class or two
breaks of ten minutes.
3. Courses meeting three hours: one break of fifteen
minutes during the middle of the class or two breaks of
ten minutes.
4. Courses in excess of three hours: one break of ten
minutes for each hour of class time or 15 minutes for
each one and one-half hour.

PROGRAM OF STUDY
Every student will be mailed a program of study
(Confirmation Mailer) based on the courses requested
through Touch-Tone Registration (TTR). The program of
study and its acceptance by the University is evidence of the
student’s obligation to perform the required work in the
designated courses. This program will serve as a student’s
identification card and will be required for official
transactions with the University.
An additional Academic Program is mailed at the beginning
of the fourth week of classes verifying each student’s official
enrollment and reflecting all program changes filed with the
Office of Admissions and Records.
A student will not receive credit in any course in which
he or she is not officially enrolled. Undergraduate and
graduate students who need to be registered full time should
note that the minimum program of study considered full
time is 12 units. For purposes of computing units for
graduate level courses taken by graduate students, a
weighting factor of 1.5 shall be applied to each unit.

THE WEIGHTING FACTOR APPLIES ONLY TO COURSES AT THE
500 AND 600 LEVEL.

CAMPUS SERVICE I.D. CARD
All new CSUN students must purchase a Campus Service
I.D. card. This card is required to obtain campus services
from the library, the Student Health Center, the University
Student Union, and many other campus units. Moreover, it
is required to vote in Associated Student elections, to obtain
tickets from the Associated Student Ticket Office at reduced
rates and to attend CSUN athletic events free of charge.
Further information concerning the cost and availability of
the Campus Service I.D. card is contained in the Schedule of
Classes.

FEES
TUITION VERSUS FEES. Tuition is not charged to legal
residents of California; however, legal residents are subject
to the fees as stated here. Nonresident tuition must be paid
by all students classified as nonresidents (See Determination
of Residence in Appendix D, Admission.) Fees are subject to
change by the Trustees of The California State University
without advance notice.

SEMESTER REGISTRATION FEES
State University Fee
0-6.0 units
Graduate .......................... $438.00
Undergraduate ..................... 414.00
6.1 or more units
Graduate .......................... 753.00
Undergraduate ..................... 714.00
Associated Students Fee ............. 60.00
College Union Fee .................. 85.00
Health Facilities Fee ................. 3.00
Student Health Services Fee ........ 30.00
Instructionally Related Activities Fee........ 15.00
Nonresident tuition for out-of-state and foreign
students (in addition to above fees) per unit .......................... 246.00

SUMMER SESSION FEES
Per unit or fraction of unit .............. $140.00-194.00
Per unit equivalent of work for no credit .... 140.00-194.00
Student Activity Fee: 6-week term ........ 1.00
College Union Fee: 6-week term ........ 10.00
Student Health Fee: 6-week term .......... 8.00

EXTENSION FEES
Per lecture unit ........................ $150.00
Per activity unit ......................... 180.00
Per lab unit .......................... 237.00

LIBRARY FEES
Overdue Books (excessive use fees per book)
2-hr. and overnight loans (per hour) ...... $1.00
2-day loans (per day) .................. 1.00
Maximum per book for 2-hr., overnight,
and 2-day loans ...................... 25.00
14-day and 7-day loans (per day) ........ 0.15
Maximum per book for 14-day and 7-day loans .... 10.00

Lost Books and other library items: Replacement cost, plus
$10.00 Service Charge, plus excessive use fee to date of bill.
For returned items, only the excessive use fee to date of
return is charged ($25 maximum per item for 2-hr.,
overnight, and 2-day loans, or $10 maximum per item for
14-day and 7-day loans). Damage or mutilation of books
and other library items: $.50 up to Replacement Cost, plus
Service Charge of $10.00. (Replacement cost is defined as
the cost to the campus to buy the lost or damaged book at
the time the book is reported lost or damaged.)

OTHER FEES
American Institutions Test .................. $5.00
Application Fee (non-refundable) ........ 55.00
Late Registration Fee .................... 25.00
PROCEDURE FOR THE ESTABLISHMENT OR ABOLISHMENT OF A REFUND OF FEES

PAYMENT OF FEES

REQUIREMENTS. Students are required to pay fees at the time of registration. Checks will be accepted only for the amount of fees due. VISA and Master Charge bank credit cards may be used for payment of student fees.

PENALTIES. A returned check fee of $10.00 and a $10.00 administrative fee is charged. In addition, the $25 late fee is charged if the returned check was in payment of registration fees.

REFUND OF FEES

Details concerning fees which may be refunded, the circumstances under which fees may be refunded, and the appropriate procedure to be followed in seeking refunds may be obtained by consulting Section 41803 (parking fees), 41913 (nonresident tuition), 42019 (housing charges), and 41802 (all other fees) of Title 5, California Code of Regulations. In all cases it is important to act quickly in applying for a refund. Information concerning any aspect of the refund of fees may be obtained from the Schedule of Classes, or from the University Student Financial Services Office.

PROCEDURE FOR THE ESTABLISHMENT OR ABOLISHMENT OF A STUDENT BODY FEE

The law governing The California State University provides that fees defined as mandatory, such as a student body association fee and a student body center fee, may be established. A student body association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). A student body center fee may be established only after a fee referendum is held which approves by a two-thirds vote the establishment of the fee (Education Code, Section 89304). The student body fee was established at CSUN by student referendum on May 5, 1958. The campus president may adjust the student body association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose (Education Code, Section 89300). The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus president containing the signatures of 10% of the regularly enrolled students at the University. Once bonds are issued, authority to set and adjust student body center fees is governed by provisions of the State University Revenue Bond Act of 1947: Education Code, Sections 90012, 90027, and 90068. Student body fees support a variety of cultural and recreational programs, childcare centers, and special student support programs.

The process to establish and adjust other mandatory fees requires consideration by the campus fee advisory committee. A student referendum also is required. The campus president may use alternate consultation mechanisms if he/she determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus president. The president may request the chancellor to establish the mandatory fee. Authority to adjust fees after consideration by the campus fee advisory committee and the completion of a student referendum is delegated to the president.

AVERAGE ANNUAL COST OF EDUCATION AND SOURCES OF FUNDS PER FULL-TIME EQUIVALENT STUDENT

The 23 campuses and the Chancellor’s Office of The California State University are financed primarily through funding provided by the taxpayers of California. The total state appropriation to the CSU for 1999/2000 (including capital outlay funding in the amount of $260,033,000) is $2,252,941,000. However, the total cost of education for CSU is $3,015,710,000, which must provide support for a projected 279,403 full-time equivalent students (FTES). The number of full-time equivalent students is determined by dividing the total academic student load by 15 units per term (the figure used here to define a full-time student’s academic load).

The total cost of education in the CSU is defined as the expenditures for current operations, including payments made to the students in the form of financial aid, and all fully reimbursed programs contained in state appropriations, but excluding capital outlay appropriations and lottery funds. The average cost of education is determined by dividing the total cost by the total FTES. The average cost is further differentiated into three categories: State Support (the state appropriation, excluding capital outlay), Student Fee Support, and Support from Other Sources (including federal funds).

Thus, excluding costs that relate to capital outlay, the average cost of education per FTE student is $10,793. Of this amount, the average student fee support per FTE is $1,830. (The State University Fee, application fee, and nonresident tuition are differentiated into three categories: State Support (the state appropriation, excluding capital outlay), Student Fee Support, and Support from Other Sources (including federal funds).

The total cost of education per FTE student is $10,793. Of this amount, the average student fee support per FTE is $1,830. (The State University Fee, application fee, and nonresident tuition are included in the average costs paid by the students; individual students may pay less or more than $1,830, depending on whether they are part-time, full-time, resident, or nonresident students.)
Detail:
Total State Support .......................................................... $2,252,941,000 (including capital outlay)
Total Support ............................................................... $3,015,710,000 (including State General Fund appropriation, student fee support, and support from other sources)

* Based on final campus budget submissions subsequent to the passage of the Budget Act. Totals may differ slightly from other CSU published amounts.

**Includes mandatory cost increase of $18.4 million; 3% increase in enrollment of $52.5 million; 3.8% general compensation pool increase of $89.4 million; technology access, training, and support services of $10 million; plant maintenance increase of $12 million; student assistance and faculty alliance outreach programs of $14.4 million; and campus-specific applied research, educational, and state-requested investments of $16.8 million.

SCHEDULE OF FEES, 2000-2002

Legal residents of California are not charged tuition. The following reflects applicable fees and nonresident tuition for both the quarter and the semester systems. (Fees are subject to change without notice.)

ALL STUDENTS
Application Fee (nonrefundable), payable by check or money order at time application is made: $55.
State University Fee for all campuses except California State University, Stanislaus:

<table>
<thead>
<tr>
<th>Units</th>
<th>Per Undergraduate:</th>
<th>Per Per Academic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
<td>Quarter</td>
<td>Year</td>
</tr>
<tr>
<td>0.1 to 6.0</td>
<td>$414</td>
<td>$276</td>
</tr>
<tr>
<td>6.1 or more</td>
<td>$714</td>
<td>$476</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
<th>Per Graduate:</th>
<th>Per Per Academic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
<td>Quarter</td>
<td>Year</td>
</tr>
<tr>
<td>0.1 to 6.0</td>
<td>$438</td>
<td>$292</td>
</tr>
<tr>
<td>6.1 or more</td>
<td>$753</td>
<td>$502</td>
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</table>

California State University, Stanislaus:

<table>
<thead>
<tr>
<th>Units</th>
<th>Per Undergraduate:</th>
<th>Per Winter Academic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
<td>Term</td>
<td>Year</td>
</tr>
<tr>
<td>0.1 to 6.0</td>
<td>$350</td>
<td>$128</td>
</tr>
<tr>
<td>6.1 or more</td>
<td>$650</td>
<td>$128</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
<th>Per Graduate:</th>
<th>Per Winter Academic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
<td>Term</td>
<td>Year</td>
</tr>
<tr>
<td>0.1 to 6.0</td>
<td>$370</td>
<td>$136</td>
</tr>
<tr>
<td>6.1 or more</td>
<td>$685</td>
<td>$136</td>
</tr>
</tbody>
</table>

NONRESIDENT STUDENTS (U.S. AND FOREIGN)
Nonresident Tuition (in addition to other fees charged to all students) for all campuses:

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>$164</td>
<td>$246</td>
</tr>
</tbody>
</table>

The fee for California State University, Stanislaus, is the same as the semester unit charge, $246.

The total fee paid per term will be determined by the number of units taken, including those in excess of fifteen.

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

ALAN PATTEE SCHOLARSHIPS
Children of deceased public law enforcement or fire suppression employees, who were California residents and who were killed in the course of law enforcement or fire suppression duties, are not charged mandatory systemwide fees or tuition of any kind at any California State University campus, according to the Alan Pattee Scholarship Act, Education Code Section 68120. Students qualifying for these benefits are known as Alan Pattee scholars. For further information, contact the Office of Admissions and Records, which determines eligibility.

DEBTS OWED TO THE INSTITUTION
Should a student or former student fail to pay a debt owed to the institution, the institution may “withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandising or any combination of the above from any person owing a debt” until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381). For example, the student may be disenrolled, and/or the institution may withhold permission to receive official transcripts of grades from any person owing a debt. If a student believes that he or she does not owe all or part of an unpaid obligation, the student should contact the campus business office. The business office, or another office on campus to which the student may be referred by the business office, will review the pertinent information, including information the student may wish to present, and will advise the student of its conclusions with respect to the debt.

POLICY ON PROSECUTION FOR THEFT AND BAD CHECKS
It is the policy of California State University, Northridge to prosecute individuals for theft, such as shoplifting, and the issuance of worthless documents, such as bad checks, wherever occurring on campus. All persons committing such acts are subject to prosecution by civil authorities under the California Penal Code. In addition to the penalties possible under the Penal Code, a student may be disciplined under Section 41301 of Title 5, California Code of Regulations, and may be expelled, suspended, placed on probation, and/or have his/her records encumbered. University employees committing such acts may also be subject to disciplinary action under Section 89535 of the California Education Code.

Every act of theft or the issuance of a worthless document is a burden that falls upon the whole community, if in no other way, imposing an expense to the general public. This burden is magnified in the educational community where every additional expense is a real sacrifice to those involved in education. Moreover, such actions are an antithesis to what is expected of a campus community. Since it would be less than realistic to assume that these acts would not occur on campus, it is necessary that the educational community adopt those practices which society has developed to protect itself.

California State University, Northridge shall employ those measures available to it under California laws and University policy to prosecute for theft and the issuance of worthless documents. Such measures include the utilization of Section 1719 of the California Civil Code (AB 1226) which permits the recipient of a bad check to recover the amount owing upon such check plus three times its face value up to a limit of $500 in a court of competent jurisdiction. In addition, Title 5, California Code of Regulations, includes Auxiliary Organizations as an integral part of the campus. To provide an overall shield against the aforesaid acts, compatible policies and procedures will be utilized by each Auxiliary Organization in cooperation with the University. Policies and procedures developed in accord with this
APPENDIX B
PRIVACY RIGHTS OF STUDENTS IN EDUCATION RECORDS

The federal Family Educational Rights and Privacy Act (Buckley Amendment) of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect the privacy of students concerning their records maintained by the campus. Specifically, the statute and regulations govern access to student records maintained by the campus, and the release of such records. In brief, the law provides that the campus must provide students access to records directly related to the student and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate. The right to a hearing under the law does not include any right to challenge the appropriateness of a grade as determined by the instructor. The law generally requires that written consent of the student be received before releasing personally identifiable data about the student from records to other than a specified list of exceptions. The institution has adopted a set of policies and procedures concerning implementation of the statutes and the regulations on the campus. Copies of these policies and procedures may be obtained from the Office of the Vice President for Student Affairs. Among the types of information included in the campus statement of policies and procedures are: 1) the types of student records and the information contained therein; 2) the official responsible for the maintenance of each type of record; 3) the location of access lists which indicate persons requesting or receiving information from the record; 4) policies for reviewing and expunging records; 5) the access rights of students; 6) the procedures for challenging the content of student records; 7) the cost which will be charged for reproducing copies of records; and 8) the right of the student to file a complaint with the Department of Education. An office and review board have been established by the Department to investigate and adjudicate violations and complaints. The office designated for this purpose is: Policy Office, U.S. Department of Education, Washington, D.C. 20202-4605.

The campus is authorized under the Act to release “directory information” concerning students. “Directory information” may include the student’s name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The above designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying information which the student requests not be released. Written objections should be sent to the Office of the Vice President for Student Affairs.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons are those who have responsibilities in connection with the campus’ academic, administrative or service functions and who have reason for using student records connected with their campus or other related academic responsibilities. Disclosure may also be made to other persons or organizations under certain conditions (e.g., as part of accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; to other institutions to which the student is transferring).

Effective January 1, 1992, Section 67140.5 of the California Education Code enables agencies of the State of California to request for recruitment purposes information including the names, addresses, major fields of study, and total units completed of CSU students and former students. The University is required by law to release such information to state agencies on request concerning students who have requested in writing that such information be released to state agencies. Students will have an opportunity to request in writing release of such information. Students will also have an opportunity to forbid release of such directory information to state agencies or any other person or organization. The University will retain discretion regarding the release of such information to agencies of the State of California in cases where the student neither has requested nor forbidden officially the release of directory information concerning himself or herself to agencies of the State of California on request for purposes of recruitment.

Requests to either request or forbid the release of directory information to State agencies for recruitment purposes also must be made at Admissions and Records.

Questions regarding student prerogatives under FERPA and Section 67140.5 of the California Education Code should be directed to the Office of Student Affairs. The full texts of FERPA, as amended, and Section 67140.5 of the California Education Code are available for inspection in the Office of the Vice President for Student Affairs.

APPENDIX C
POLICIES ON NONDISCRIMINATION AND STUDENT CONDUCT

POLICY AGAINST RACIAL AND SEXUAL HARASSMENT
California State University, Northridge is comprised of individuals from diverse backgrounds. It takes pride in being a culturally pluralistic campus which promotes equal opportunity and racial and cultural harmony. As such, it is essential that the entire University community recognize the need for an awareness of, sensitivity to, and respect for the cultural heritage, gender, and sexual orientation of others.

An individual’s or group’s actions or activities which promote degrading or demeaning social stereotypes based on race, age, ethnicity, national origin, gender, sexual orientation, religion, or disability will not be tolerated. Students who behave abusively toward members of the campus community based on the aforementioned criteria will face serious consequences and will be subject to disciplinary action. Any student who commits acts of sexual or racial harassment manifested by acts of physical abuse, threats of physical abuse, verbal abuse, and/or hazing activities may be subject to suspension or expulsion from the University.

Nondiscrimination on the Basis of Sex
The California State University does not discriminate on the basis of sex in its programs or activities. Title IX of the Education Amendments of 1972, as amended, and the
administrative regulations adopted thereunder prohibit discrimination on the basis of sex in education programs and activities conducted by California State University, Northridge. Such programs and activities include the admission and employment of students. Inquiries concerning the application of Title IX to programs and activities of CSUN, may be referred to Dr. Jeanette Mann, Special Assistant to the President for Institutional Equity and Diversity (818) 677-2077, the campus officer assigned the administrative responsibility of reviewing such matters, or to the Regional Director of the Office for Civil Rights, Region 9, 50 United Nations Plaza, Room 239, San Francisco, CA 94102.

The California State University is committed to providing equal opportunities to male and female CSU students in all campus programs, including intercollegiate athletics.

**POLICY ON SEXUAL ASSAULT AND ACQUAINTANCE RAPE**

California State University, Northridge will not tolerate sexual assault in any form, including date/acquaintance rape. Every allegation of sexual assault will be taken seriously. Where there is reason to believe that the University’s regulations prohibiting sexual assault have been violated, the University will pursue strong disciplinary action. This discipline includes the possibility of suspension and dismissal or termination from the University.

Any employee, student or other person at California State University, Northridge who commits a rape or other crime of a sexual nature specified in the California Penal Code can be criminally prosecuted. In addition, employees and students can be disciplined under the California Education Code even if the criminal justice authorities or the person assaulted choose not to pursue criminal prosecution. Please contact Carole Baxter at (818) 677-4779 for further information.

**Nondiscrimination on the Basis of Race, Color, or National Origin**

The California State University complies with the requirements of Title VII of the Civil Rights Act of 1964 and the regulations adopted thereunder. No person shall, on the grounds of race, color, or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program of the California State University.

**Nondiscrimination on the Basis of Age**

California State University, Northridge complies with the provisions of the Age Discrimination Act of 1975 and the regulations developed under that law. The Act states that no person in the United States shall, on the basis of age, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.

**Nondiscrimination on the Basis of Disability**

The California State University does not discriminate on the basis of disability in admission or access to, or treatment or employment in, its programs and activities. The Americans with Disabilities Act, as well as Section 504 of the Rehabilitation Act of 1973, as amended, and the regulations adopted thereunder prohibit such discrimination. Dr. Mary Ann Cummins Prager, Assistant Vice President for Student Affairs, Operations and Personnel and ADA Coordinator, has been designated to coordinate the efforts of California State University, Northridge to comply with the acts in their implementation regulations. Inquiries concerning compliance may be addressed to her at the Regional Director of the Office for Civil Rights, Region 9, 50 United Nations Plaza, Room 239, San Francisco, CA 94102.

**Racial and Other Discrimination and Harassment Complaints**

In accordance with Executive Orders 345 and 419, the University Procedures for Addressing Allegations of Sexual Harassment, the following individuals serve as members of the Committee to Receive Allegations of Sexual Harassment:

<table>
<thead>
<tr>
<th>NAME</th>
<th>TERM/LOCATION</th>
<th>EXT./MAIL DROP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Charles Hanson</td>
<td>1999-2002</td>
<td>x2539/x4013</td>
</tr>
<tr>
<td>Ms. Marjorie Kantrowe</td>
<td>1998-2001</td>
<td>x3820</td>
</tr>
<tr>
<td>Dr. Tamara Klumpe</td>
<td>1997-2000</td>
<td>x2366</td>
</tr>
<tr>
<td>Dr. Beth Lasky</td>
<td>1997-2000</td>
<td>x2725/x2596</td>
</tr>
<tr>
<td>Dr. Geraldine Luehy</td>
<td>1997-2000</td>
<td>x3120</td>
</tr>
<tr>
<td>Dr. Judy Schmidt-Levy</td>
<td>1999-2002</td>
<td>x2366</td>
</tr>
<tr>
<td>Dr. Bruce Shapiro</td>
<td>1999-2002</td>
<td>x2366</td>
</tr>
<tr>
<td>Dr. Melanie Williams</td>
<td>1999-2002</td>
<td>x2467</td>
</tr>
<tr>
<td>Dr. Charles Hanson</td>
<td>1999-2002</td>
<td>x2539/x4013</td>
</tr>
<tr>
<td>Ms. Marjorie Kantrowe</td>
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<td>1999-2002</td>
<td>x2366</td>
</tr>
<tr>
<td>Dr. Melanie Williams</td>
<td>1999-2002</td>
<td>x2467</td>
</tr>
</tbody>
</table>

All students are urged to refer any complaints of sexual harassment to one of these members of the Committee, who have assumed responsibility for handling such complaints in a sensitive and professional manner. Copies of procedures can be obtained in Bldg. 13, Rm. 107. Sexual harassment violates Title IX of the Education Amendments of 1972, California law, and the Executive Orders of the Board of Trustees of California State University.

If the complaint cannot be resolved informally, students may file a formal complaint through the discrimination grievance procedures below.

**MARITAL STATUS, RELIGION, OR SEXUAL ORIENTATION**

The California State University does not discriminate on the basis of marital status, religion, or sexual orientation.

**SEXUAL HARASSMENT COMPLAINTS**

In accordance with Executive Orders 345 and 419, the University Procedures for Addressing Allegations of Sexual Harassment, the following individuals serve as members of the Committee to Receive Allegations of Sexual Harassment:

<table>
<thead>
<tr>
<th>NAME</th>
<th>TERM/LOCATION</th>
<th>EXT./MAIL DROP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martha Alzamora</td>
<td>1998-00</td>
<td>x2734/2735</td>
</tr>
<tr>
<td>Chicano/a Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christopher Holmes</td>
<td>1997-00</td>
<td>x2366</td>
</tr>
<tr>
<td>Counseling Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthony Johnson</td>
<td>1999-02</td>
<td>x2366</td>
</tr>
<tr>
<td>Counseling Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angela Lew</td>
<td>1998-01</td>
<td>x2600</td>
</tr>
<tr>
<td>Library</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeanette Mann</td>
<td>1999-02</td>
<td>x2077</td>
</tr>
<tr>
<td>Office of Equity &amp; Diversity</td>
<td></td>
<td>mail: 8208</td>
</tr>
<tr>
<td>Carolyn Okazaki</td>
<td>1999-02</td>
<td>x2366/4786</td>
</tr>
<tr>
<td>Counseling Services</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
All students are urged to refer any complaints of racial discrimination and harassment (except for complaints of sexual harassment) to one of these members of the Committee, who have assumed responsibility for handling such complaints in a sensitive and professional manner. Copies of procedures can be obtained in Building 13, Room 107. Racial and other discrimination and harassment violates Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, the Americans with Disabilities Act, Section 504 of the Rehabilitation Act of 1974, the Age Discrimination Act of 1975, California Law, and the Executive Orders of the Board of Trustees of California State University.

**STUDENT CONDUCT CODE**

**STANDARDS OF ETHICAL BEHAVIOR**

The personal behavior and ethical conduct of each student at California State University, Northridge impacts, positively or negatively, on the climate and reputation of the entire institution. Thus it is imperative that each student act at all times with integrity and with respect toward all members of the campus community. The University assumes that all students will conduct themselves as mature, responsible, and law-abiding citizens who will comply with University policies and regulations.

**STUDENT DISCIPLINE**

Inappropriate conduct by students or by applicants for admission is subject to discipline as provided in Sections 41301 through 41304 of Title 5, California Code of Regulations. These sections are as follows:

**41301. EXPULSION, SUSPENSION AND PROBATION OF STUDENTS.**

Following procedures consonant with due process established pursuant to Section 41304, any student of a campus may be expelled, suspended, placed on probation or given a lesser sanction for one or more of the following causes which must be campus related. Taken together those causes constitute the **STUDENT CONDUCT CODE**.

(a) Cheating or plagiarism in connection with an academic program at a campus.

(b) Forgery, alteration or misuse of campus documents, records, or identification or knowingly furnishing false information to a campus.

(c) Misrepresentation of oneself or of an organization to be an agent of a campus.

(d) Obstruction or disruption, on or off campus property, of the campus educational process, administrative process, or other campus function.

(e) Physical abuse on or off campus property of the person or property of any member of the campus community or of members of his or her family or the threat of such physical abuse.

(f) Theft of, or non-accidental damage to, campus property, or property in the possession of, or owned by, a member of the campus community.

(g) Unauthorized entry into, unauthorized use of, or misuse of campus property.

(h) On campus property, the sale or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics as those terms are used in California statutes, except when lawfully prescribed pursuant to medical or dental care, or when lawfully permitted for the purpose of research, instruction or analysis.

(i) Knowingly possession or use of explosives, dangerous chemicals or deadly weapons on campus property or at a campus function without prior authorization of the campus president.

(j) Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.

(k) Abusive behavior directed toward, or hazing of, a member of the campus community.

(l) Violation of any order of a campus president, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any of the other provisions of this Section.

(m) Soliciting or assisting another to do any act which would subject a student to expulsion, suspension or probation pursuant to this Section.

(n) For purposes of this Article, the following terms are defined:

(1) The term “member of the campus community” is defined as meaning California State University Trustees, academic, non-academic and administrative personnel, students, and other persons while such other persons are on campus property or at a campus function.

(2) The term “campus property” includes:

(A) real or personal property in the possession of, or under the control of, the Board of Trustees of The California State University, and

(B) All campus feeding, retail, or residence facilities whether operated by a campus or by a campus auxiliary organization.

(3) The term “deadly weapons” includes any instrument or weapon of the kind commonly known as a blackjack, sling shot, billy, sandclub, sandbag, metal knuckles, any dirk, dagger, switchblade knife, pistol, revolver, or any other firearm, any knife having a blade longer than five inches, any razor with an unguarded blade, and any metal pipe or bar used or intended to be used as a club.

(4) The term “behavior” includes conduct and expression.
(5) The term “hazing” means any method of initiation into a student organization or any pastime or amusement engaged in with regard to such an organization which causes, or is likely to cause, bodily danger, or physical or emotional harm, to any member of the campus community; but the term “hazing” does not include customary athletic events or other similar contests or competitions.

(o) This Section is not adopted pursuant to Education Code Section 89031.

(p) Notwithstanding any amendment or repeal pursuant to the resolution by which any provision of this Article is amended, all acts and omissions occurring prior to that effective date shall be subject to the provisions of this Article as in effect immediately prior to such effective date.

41302. DISPOSITION OF FEES: CAMPUS EMERGENCY; INTERIM SUSPENSION. The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

41303. CONDUCT BY APPLICANTS FOR ADMISSION. Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Sections 41301 or 41302. Admission or readmission may be qualified or denied to any person who, while a student, commits acts which are subject to disciplinary action pursuant to Section 41301 or Section 41302. Qualified admission or denial of admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

41304. STUDENT DISCIPLINARY PROCEDURES FOR THE CALIFORNIA STATE UNIVERSITY. The Chancellor shall prescribe, and may from time to time revise, a code of student disciplinary procedures for The California State University. Subject to other applicable law, this code shall provide for determinations of fact and sanctions to be applied for conduct which is a ground of discipline under Sections 41301 or 41302, and for qualified admission or denial of admission under Section 41303; the authority of the campus President in such matters; conduct related determinations on financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a Hearing Officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The Chancellor shall report to the Board his actions taken under this section.

DISCIPLINARY HEARINGS: SECTION 66017
CALIFORNIA EDUCATION CODE

The chief administrative officer of a community college, state university or college, or the University of California shall take appropriate disciplinary action against any student, member of the faculty, member of the support staff, or member of the administration of the community college, state college, state university who, after a prompt hearing by a campus body, has been found to have willfully disrupted the orderly operation of the campus. Nothing in this section shall be construed to prohibit, where an immediate suspension is required in order to protect lives or property and to insure the maintenance of order, interim suspension pending a hearing, provided that a reasonable opportunity be afforded the suspended person for a hearing within 10 days. The disciplinary action may include, but need not be limited to, suspension, dismissal, or expulsion. The provisions of Sections 89538 to 89540, inclusive, shall be applicable to any state university or college employee dismissed pursuant to this section. The chief administrative officer of each such institution shall submit periodic reports as to the nature and disposition of cases acted upon pursuant to this section to his governing board.

ACADEMIC DISHONESTY

The maintenance of academic integrity and quality education is the responsibility of each student within this university and the California State University system. Cheating or plagiarism in connection with an academic program at a campus is listed in Section 41301, Title 5, California Code of Regulations, as an offense for which a student may be expelled, suspended, or given a less severe disciplinary sanction.

Academic dishonesty is an especially serious offense and diminishes the quality of scholarship and defrauds those who depend upon the integrity of the campus programs. Such dishonesty includes:

A. CHEATING
Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.

Comments:
1. Faculty members are encouraged to state in advance their policies and procedures concerning examinations and other academic exercises as well as the use before examinations of shared study aids, examination files, and other related materials and forms of assistance.
2. Students completing any examination should assume that external assistance (e.g., books, notes, calculators, conversation with others) is prohibited unless specifically authorized by the instructor.
3. Students must not allow others to conduct research or prepare any work for them without advance
D. PLAGIARISM

C. FACILITATING ACADEMIC DISHONESTY

B. FABRICATION

3. Borrowed Facts or Information: Information obtained or work of another as one's own in any academic exercise.

2. Paraphrase: Prompt acknowledgment is required or work of another as one's own in any academic exercise.

1. Direct Quotation: Every direct quotation must be identified by quotation marks, or by appropriate indentation or by other means of identification, and must be promptly cited in a footnote. Proper footnote style for any academic department is outlined by the MLA Style Sheet or K. L. Turabian's A Manual for Writers of Term Papers, Theses and Dissertations. These and similar publications are available in the Matador Bookstore and at the reference desk of the Oviatt Library.

2. Paraphrase: Prompt acknowledgment is required when material from another source is paraphrased or summarized in whole or in part in your own words. To acknowledge a paraphrase properly, one might state: “to paraphrase Locke’s comment . . . “ and conclude with a footnote identifying the exact reference. A footnote acknowledging only a directly quoted statement does not suffice to notify the reader of any preceding or succeeding paraphrased material.

3. Borrowed Facts or Information: Information obtained in one’s reading or research which is not common knowledge among students in the course must be acknowledged. Examples of common knowledge might include the names of leaders of prominent nations, basic scientific laws, etc.

FACULTY POLICY ON ACADEMIC DISHONESTY

Evaluation of student performance is the exclusive province of the faculty. The faculty have the responsibility to make reasonable efforts to guarantee that work is done by the student who is to receive credit for its completion. More specifically, examinations should be appropriately proctored or monitored to prevent students from copying or exchanging information; examinations and answers to examination questions should be secured in a way that students cannot have prior access to them; the authenticity of quotations and references should be reviewed to assure the faculty member that proper credit is given for ideas and information taken from other sources, etc. Having carried out these responsibilities if, in the faculty member’s opinion, there is evidence of academic dishonesty on the part of a student, it is the faculty member’s responsibility to take action against the student as described in the options below.

Even if a faculty member does not request disciplinary action against a student, he/she is encouraged to report acts of academic dishonesty to the Office of the Vice President for Student Affairs because a student may engage in such behavior in other classes, departments, or schools. If reports of alleged academic dishonesty do not reach one central office, repeated acts may go undetected and recidivism will be difficult or impossible to monitor. Communication with the Office of the Vice President for Student Affairs may also assist the faculty member in determining which option or combination of options to exercise.

Depending upon the severity of the offense and the student’s disciplinary history as it relates to acts of academic dishonesty, the faculty member may elect to exercise the following options:

1. Assign a lower or failing grade to an assignment, examination, or the entire course. In cases in which the faculty member elects to exercise the grade penalty option, the faculty member must inform the student in a timely manner that academic dishonesty was a factor in the evaluation. In cases where the sanction for an act of academic dishonesty has been the assignment of a grade penalty without a simultaneous request for formal disciplinary action and in which the student wishes to challenge the grade penalty assigned, the student may file an appeal with the Academic Grievance and Grade Appeals Board.

2. Request that the Office of the Vice President for Student Affairs notify the student that information related to the student’s alleged act of academic dishonesty within that particular class has been forwarded to the Assistant Vice President for Student Life. Such notifications are in the form of an admonitory letter and serve to inform the student that the Office of the Vice President for Student Affairs is aware of the alleged incident and that formal disciplinary action will not be taken. The admonitory letter also apprises the student of the Student Conduct Code and of sanctions that
would be levied for violations of that code, and affords the student an opportunity to meet with the Assistant Vice President for Student Life to discuss the matter. The admonitory letter shall not be released for any purpose and shall not become part of the student’s permanent record.

3. Request disciplinary action against the student. Student discipline is exclusively the province of the Office of the Vice President for Student Affairs. In such cases, the faculty member through the department chair and school dean will be notified of the final disposition of the case. In cases where the faculty member chooses both to impose a grade penalty and requests formal student disciplinary action against the student and the student wishes to challenge the grade penalty, the student may file an appeal with the Academic Grievance and Grade Appeals Board only after the student disciplinary case has been fully adjudicated by the Assistant Vice President for Student Life.

**PENALTIES**

Section 41301, Title 5, California Code of Regulations, as published in the University Catalog, provides that a student may be expelled, suspended, placed on probation or given a lesser sanction in a proven violation of the Student Conduct Code. Among the violations listed in Section 41301 cheating or plagiarism in connection with an academic program is specifically included.

Disciplinary records of any action of academic dishonesty are retained in the Office of the Vice President for Student Affairs for at least five years from the date of final adjudication. These records may be available to prospective employers and other educational institutions, in accordance with federal and state regulations. In short, a student employing opportunities.

committing any act of academic dishonesty will run a with federal and state regulations. In short, a student

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Disciplinary records of any action of academic dishonesty

program is specifically included.

CONDUCT CODE. Among the violations listed in Section 41301

cheating or plagiarism in connection with an academic

The Assistant Vice President for Student Life is empowered
to investigate all instances of academic dishonesty. The
cases are resolved either through an appropriate action
accepted by the student or through a disciplinary hearing. The faculty member, department chair, and

school dean will be notified of the final disposition of

the case. In cases where the faculty member chooses both
to impose a grade penalty and requests formal

student disciplinary action against the student and the

student wishes to challenge the grade penalty, the

student may file an appeal with the Academic

Grievance and Grade Appeals Board only after

the student disciplinary case has been fully adjudicated by

the Assistant Vice President for Student Life.

**UNIVERSITY POLICY ON ALCOHOL AND OTHER DRUGS**

The University Policy regarding the possession, use, and/or

sale of alcoholic beverages or illicit drugs on campus is
governed by state and municipal law and further governed by the Student Conduct Code, Title 5, California Code of Regulations. Other University regulations are contained in the Policy Manual on the Use of Campus Facilities and the Alcoholic Beverage Policy of Student Development and International Programs. The University expects that individuals and groups will conduct themselves and operate within the scope of these laws and University policies and regulations. Proven violations of these laws, policies, and regulations will lead to serious consequences and may include criminal prosecution as well as suspension from the University. For further information please contact the ALERT (Alcohol, Tobacco and Other Drugs, Learning, Education, Research and Training) Program at (818) 677-4779.

**UNIVERSITY POLICY ON SMOKING**

CSUN is committed to protecting the health of its students and employees. Smoking is prohibited in all public areas of the campus where non-smokers cannot avoid exposure to smoke including all indoor facilities, exterior dining facilities, and within 30 feet of entrances to all campus facilities. These regulations are set forth in the Policy Manual on the Use of Campus Facilities, a copy of which is available for study in the office of the Vice President for Student Affairs, and the Office of Personnel and Employee Relations.

**PARKING, TRAFFIC AND VEHICLE REGULATIONS**

Parking Services is responsible for the day to day operations of the campus parking facilities. The goal of Parking Services is to help people find a parking space and park legally while on the grounds of the campus.

Parking Services encourages students to purchase and display the appropriate parking permit before parking in a designated “Student” parking lot. There are also parking meters and one-day parking permits available for your convenience. It is strongly recommended that students arrive on campus 30 to 45 minutes before their first class since parking near the academic core is limited. A summary of the campus parking rules and regulations may be obtained at the campus information booths and at the Parking Services office.
PUBLIC SAFETY/PARKING SERVICES  
Office: UPA Building 14, Room 105  
Phone: (818) 677-2157  
Hours: 7:30 AM to 5:00 PM Monday through Friday

VIOLENCE IN THE WORKPLACE  
California State University, Northridge, is committed to creating and maintaining a working and learning environment free from violence for its students and employees. Respect throughout the University for the dignity and rights of others is intrinsic to an environment free from violence.  
The University has a zero tolerance for violence against members of the University community. The University prohibits acts of unlawful violence or threats or unlawful violence. The University may seek injunctive relief in the event of violence or threats of violence against any individual in and on the University community or campus facility.

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Existing California State University disciplinary, grievance, or other complaint procedures, as appropriate, may serve as the mechanism for resolving acts of violence or threats of violence. Each allegation of an act of violence or a threat of violence will be taken seriously. Where there is reason to believe that University regulations prohibiting violence have been broken, the University may pursue disciplinary action. Such disciplinary action could include demotion, suspension, or expulsion from the University for students.

APPENDIX D
ADMISSION PROCEDURES & POLICIES
Requirements for admission to California State University, Northridge are in accordance with Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations. Prospective applicants who are unsure of their status under these requirements are encouraged to consult a high school or college counselor or the Admissions Office. Applications may...
be obtained at any California high school or community college, or from the Admissions Office at any of the campuses of the California State University.

Electronic versions of the CSU undergraduate and graduate applications are accessible on the World Wide Web at http://www.csumentor.edu/

The CSUMentor system allows students to browse through general information about CSU’s twenty-two campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission and financial aid.

UNDERGRADUATE ADMISSION REQUIREMENTS

FRESHMAN REQUIREMENTS
You will qualify for regular admission as a first-time freshman if you (1) are a high school graduate, (2) have a qualifiable eligibility index (see Eligibility Index table), and (3) have completed with grades of C or better each of the courses in the comprehensive pattern of college preparatory subject requirements (see “Subject requirements”). Courses must be completed prior to the first enrollment in the California State University.

ELIGIBILITY INDEX
The eligibility index is the combination of your high school grade point average and your score on either the American College Test (ACT) or the SAT I. Your grade point average is based on grades earned during your final three years of high school (excluding physical education and military science), and bonus points for approved honors courses. Up to eight semesters of honors courses taken in the last two years of high school can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points.

You can calculate the index by multiplying your grade point average by 800 and adding your total score on the SAT I. Or, if you took the ACT, multiply your grade point average by 200 and add ten times the ACT composite score. If you are a California high school graduate (or a resident of California for tuition purposes), you need a minimum index of 2900 using the SAT I or 694 using the ACT; the Eligibility Index Table illustrates several combinations of required test scores and averages.

If you neither graduated from a California high school nor are a resident of California for tuition purposes, you need a minimum index of 3502 (SAT I) or 842 (ACT). If your grade point average is 3.00 or above (3.61 for nonresidents), you are exempt from submitting test scores.

You are urged to take the SAT I or ACT since the California State University and the University of California. The preparatory course admission requirements for both systems will be the completion of the following courses with a grade of “C” or better: four years of English, three years of math (algebra, geometry, and intermediate algebra), two years of U.S. history or social science, two years of laboratory science, two years of foreign language, one year of visual or performing arts, and one year of electives chosen from one of the areas above.

ALTERNATE ADMISSION CRITERIA

UC PREPARED APPLICANTS
Beginning with the academic year 1995-96 and continuing through 1998-1999, the CSU will conduct an admission experiment that will permit campuses to admit applicants who have completed all of the UC college preparatory (a-f) requirements.

FOREIGN LANGUAGE SUBJECT REQUIREMENT
The foreign language subject requirement may be satisfied by applicants who demonstrate competence in a language other than English equivalent to or higher than expected of students who complete two years of foreign language study. Consult with your school counselor or any CSU campus admission or relations with schools office for further information.

SUBJECT REQUIREMENT SUBSTITUTION FOR STUDENTS WITH DISABILITIES
Applicants with disabilities are strongly encouraged to complete college preparatory course requirements if at all possible. If an applicant is judged unable to fulfill a specific course requirement because of his or her disability, alternative college preparatory courses may be substituted for specific subject requirements. Substitutions may be authorized on an individual basis after review and recommendation by the applicant’s academic advisor or guidance counselor in consultation with the director of a CSU disabled student services program. Although the distribution may be slightly different from the course pattern required of other students, students qualifying for substitutions will still be held for 15 units of college preparatory study. Students should be aware that course substitutions may limit later enrollment in certain majors, particularly those involving mathematics. For further
information and substitution forms, please call the director of disabled student services at your nearest CSU campus.

PROVISIONAL ADMISSION

CSU Northridge may provisionally admit first-time freshman applicants based on their academic preparation through the junior year of high school and planned for the senior year. The campus will monitor the senior year of study to ensure that those so admitted complete their senior year of studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

UNDERGRADUATE TRANSFER APPLICANTS

You will qualify for admission as a transfer student if you meet the freshman admission requirements in effect for the term to which you are applying (see “Freshman Requirements” section).

1. You will meet the freshman admission requirements in effect for the term to which you are applying (see “Freshman Requirements” section).
2. You were eligible as a freshman at the time of high school graduation except for the subject requirements, have made up the missing subjects, and have been in continuous attendance in an accredited college since high school graduation.
3. You have completed at least 56 transferable 1 semester (84 quarter) units and have made up any missing subject requirements (see “Making up Missing College Preparatory Subjects” section).

APPLICANTS WHO GRADUATED FROM HIGH SCHOOL 1988 OR LATER:

You have completed all subject requirements in effect when you graduated high school. You can use both high school and college coursework. For upper division transfers seeking admission to Fall term 2000 or later, all applicants with 56 or more transferable semester (84 quarter) units will be required to have completed at least 30 semester units of courses at a level equivalent to courses that meet general education requirements. The 30 semester units must include all of the general education requirements in English, social science, science and mathematics at a level at least equivalent to courses that meet general education requirements. The 30 units must include all of the general education requirements in communication in English (3 courses) and at least the three semester units (typically 1 course) required in mathematics.

OR

You have completed at least 30 semester units of college coursework with a grade of C or better in each course to be selected from courses in English, arts and humanities, social science, science and mathematics at a level at least equivalent to courses that meet general education requirements. The 30 units must include all of the general education requirements in communication in the English language and critical thinking (at least 9 semester units) and the requirement in mathematics/quantitative reasoning (usually 3 semester units) or the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

1 For this requirement, transferable courses are those designated by the college or university offering the courses.

APPLICANTS WHO GRADUATED FROM HIGH SCHOOL PRIOR TO 1988 - You should contact the admission office to inquire about alternative admission programs.

PROVISIONAL ADMISSION

California State University Northridge may provisionally admit transfer applicants based on their academic preparation and courses planned for completion. The campus will monitor the final terms to ensure that those admitted complete all required courses satisfactorily.

MAKING UP MISSING COLLEGE PREPARATORY SUBJECT REQUIREMENTS - Undergraduate applicants who did not complete the subject requirements while in high school may make up missing subjects in any of the following ways:

1. Complete appropriate courses with a C or better in adult school or high school summer sessions.
2. Complete appropriate college courses with a C or better. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.
3. Earn acceptable scores on specified examinations.

Please consult with any CSU admissions office for further information about alternative ways to satisfy the subject requirements.

TEST OF ENGLISH AS A FOREIGN LANGUAGE (TOEFL) REQUIREMENT, UNDERGRADUATE APPLICANTS

All undergraduate applicants, regardless of citizenship, who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction must present a score of 173 or above on the Test of English as a Foreign Language. Some campuses may require a score higher than 500. Applicants taking the Computer Based Test of English as a Foreign language must present a score of 173 or above. Applicants not admissible under one of the above provisions should enroll in a community college or other appropriate institution. Only under the most unusual circumstances will such applicants be permitted to enroll. Permission is granted only by special action.

ADULT STUDENTS ADMISSION

As an alternative to regular admission criteria, an applicant who is twenty-five years of age or older may be considered for admission as an adult student if he or she meets the following basic conditions:

1. Possesses a high school diploma (or has established equivalence through either the Tests of General Educational Development or the California High School Proficiency Examination).
2. Has not been enrolled in college as a full-time student for more than one term during the past five years.
3. If there has been any college attendance in the past five years, has earned a C average or better.

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer and will include an assessment of basic skills in the English language and mathematical computation.

OTHER UNDERGRADUATE APPLICANTS

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

Graduate and postbaccalaureate applicants may apply for a degree objective, a credential or certificate objective, or may have no program objective. Depending on the objective, the CSU will consider an application for admission as follows:

- **GENERAL REQUIREMENTS** - The minimum requirements for admission to graduate and postbaccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, chapter 1, subchapter 3 of the California Code of Regulations. Specifically, a student shall: (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; (3) have attained a grade point average of at least 2.5 (A = 4.0) in the last 60 semester/90 quarter units attempted, independent of when the baccalaureate degree was granted2; and (4) satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

If you meet the minimum requirements for graduate and postbaccalaureate studies, you will be considered for admission in one of the four following categories:

- **POSTBACCALAUREATE UNCLASSIFIED** - To enroll in graduate courses for professional or personal growth, you must be admitted as a postbaccalaureate unclassified student. By meeting the general requirements, you are eligible for admission as a postbaccalaureate unclassified student. Some departments may restrict enrollment of unclassified students because of heavy enrollment pressure. Admission in this status does not constitute admission to, or assurance of, consideration for admission to any graduate degree or credential program; or

- **POSTBACCALAUREATE CLASSIFIED** - If you wish to enroll in a CREDENTIAL OR CERTIFICATE PROGRAM, you will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or

- **GRADUATE CONDITIONALLY CLASSIFIED** - You may be admitted to a graduate degree program in this category if, in the opinion of the appropriate campus authority, you can remedy deficiencies by additional preparation; or

- **GRADUATE CLASSIFIED** - To pursue a graduate degree, you will be required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.

**TOEFL REQUIREMENTS**

**GRADUATE POSTBACCALAUREATE**

All graduate and postbaccalaureate applicants, regardless of citizenship, whose preparatory education was principally in a language other than English, must demonstrate competence in English. Those who do not possess a bachelor’s degree from a postsecondary institution where

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2 The entire semester or quarter in which 60/90 units began will be used in this calculation. LOWER DIVISION COURSES or courses taken in extension (except CSUN Concurrent Extension enrollment in upper division) AFTER obtaining the baccalaureate degree are EXCLUDED from the calculation.

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English is the principal language of instruction must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL), and must complete the Test of Written English. Applicants who satisfy other admissions requirements but score below 4.5 on the TWE will be required to enroll in English 090 during their first semester in residence. Some campuses require a higher score. Applicants taking the Computer Based Test of English as a Foreign Language must present a score of 213 or above. Some campuses may require a higher score.

**ADMISSION TO GRADUATE STUDY WITH CSUN BACHELOR’S DEGREE**

California State University, Northridge Bachelor’s degree graduates who plan to continue enrollment at California State University, Northridge the semester following their graduation must submit the appropriate application forms to the Office of Admissions and Records during the final semester of their undergraduate work. (See section on general information concerning applications and admission. Applications filed during the first month of any filing period will assure the application will be given every consideration possible.) In order to participate in Touch Tone Registration the application forms should be submitted by March 1 for the Fall semester, and October 1 for the Spring semester. A $55.00 application fee is also required. Determination of eligibility to continue in graduate enrollment is made by the major department and/or the Credentials Office in conjunction with the Office of Graduate Studies.

**READMISSION, UNDERGRADUATE/GRADUATE**

Students previously enrolled in the University who plan to return after an absence of one or more semesters and who were not eligible for a Leave of Absence (See Leave of Absence in Regulations section for regulations governing Leave of Absence from CSUN) must file a new application for admission. The application fee is required of students not enrolled in either of the two semesters prior to the semester of reapplication and were not eligible for a Leave of Absence, or if they were enrolled in another institution during their absence from CSUN. Students must submit official transcripts of all college work attempted during their absence from the University. Students absent from the University for a period of seven years or longer must resubmit all documents required for readmission.

**FORMER STUDENTS WHO WERE ON PROBATION**

Students who were on probation at the end of their last enrollment may be readmitted on probation provided any work they may have completed elsewhere in the interim is satisfactory. Students readmitted on probation are subject to such conditions as appropriate University officials may prescribe.

**FORMER STUDENTS WHO WERE DISQUALIFIED**

Disqualified undergraduate and second baccalaureate degree candidates who have been absent from the University for one or more semesters, must apply for readmission and must submit all forms for consideration of reinstatement and transcripts of any college work completed in the interim. Readmission decisions will be based on a review of the student’s academic status and personal situation by appropriate campus officials. Some departments have special policies concerning readmission. Students should consult their major department for details, and submit their application as early as possible.

Undergraduate students and second baccalaureate degree candidates are restricted to a maximum of two
reinstatements from disqualification. See the Regulations section for specific restrictions. Students who were disqualified at the end of their last enrollment may be readmitted by special action only, and are subject to such conditions as the appropriate University officials may prescribe. They may be placed on scholastic probation if readmitted. Second baccalaureate degree students may be readmitted only once after becoming disqualified.

ADMISSION PROCEDURES, UNDERGRADUATE/GRADUATE

IMPORTANCE OF FILING COMPLETE, ACCURATE, AND AUTHENTIC APPLICATIONS FOR ADMISSION DOCUMENTS

The CSU advises prospective students that they must supply complete and accurate information on the application for admission, residence questionnaire, and financial aid forms. Further, applicants must submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

Applicants seeking admission to CSUN should follow the procedures outlined below:

1. Application
   Submit a completed application for admission accompanied by the required nonrefundable application fee, to:
   Office of Admissions and Records
   California State University, Northridge
   P.O. Box 1286
   Northridge, California 91328-1286

2. Transcripts
   Request official transcripts of all previous scholastic work from each school and college attended when asked to do so by the Office of Admissions and Records. Official transcripts are those that are mailed or sent directly from the issuing institution to the Office of Admissions and Records. Personal copies are not acceptable for admission purposes, but are useful to applicants in obtaining academic advisement after admission. The transcripts required at CSUN are:
   • Applicants With No College Units – high school transcript.
   • Applicants With College Units – high school transcript if transferring with fewer than 56 transferable semester (84 quarter) units of study; transcript from each college attended, even if no work was completed.
   • Returning Students – transcript from each college attended.
   • Graduate Applicants – two transcripts from each college attended. One set of transcripts must be official; the second set may be personal copies.

3. Tests
   All undergraduate students who have completed fewer than 56 semester or 84 quarter units of transferable college credit must submit scores, unless exempt (see "Eligibility Index" in Appendices), from either the SAT I of the College Board or the American College Testing Program (ACT). If you are applying to an impacted program and are required to submit test scores, you should take the test no later than early December if applying for fall admission or no later than November if applying to San Luis Obispo or San Diego. Test scores are also used for advising and placement purposes. Registration forms and dates for the SAT I or ACT are available from school or college counselors or from a CSU campus testing office. Or you may write to or call:

The College Board (SAT I) ACT
Registration Unit, Box 6200 Registration Unit, Princeton, New Jersey 08541 P.O. Box 414
(609) 771-7588 Iowa City, Iowa 52243
(319) 337-1270

Graduate applicants must submit the scores of any qualifying examinations required in their prospective programs of study. Applicants should consult the appropriate CSUN academic department for further information.

UNDERGRADUATE APPLICATION PROCEDURES

Prospective students applying for part-time or full-time undergraduate programs of study, in day or evening classes, must file a complete undergraduate application as described in the admissions booklet. The $55.00 nonrefundable application fee should be in the form of a check or money order payable to "The California State University" and may not be transferred or used to apply to another term. An alternate campus and major may be indicated on the application, but applicants should list as an alternate campus only a CSU campus that also offers the major. Generally, an alternate major will be considered at the first choice campus before an application is redirected to an alternate choice campus.

GRADUATE & POSTBACCALAUREATE APPLICATION PROCEDURES

All graduate and postbaccalaureate applicants (e.g., master’s degree applicants, those seeking credentials, and those interested in taking graduate level courses for personal or professional growth) must file a complete graduate application as described in the graduate and postbaccalaureate admission booklet. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the $55.00 nonrefundable application fee. Since applicants for postbaccalaureate programs may be limited to the choice of a single campus on each application, redirection to alternate campuses or later changes of campus choice will be minimal. To be assured of initial consideration by more than one campus, it will be necessary to submit separate applications (including fees) to each. Applications may be obtained from the Graduate Studies Office of any California State University campus in addition to the sources noted for undergraduate applicants.

Applicants wishing to pursue a second bachelor’s degree at California State University, Northridge must submit a complete undergraduate application. Upon submission of all official transcripts, the second bachelor’s student will be sent the Second Bachelor’s DARS Audit, from the Office of Admissions and Records.

IMPACTED PROGRAMS

The CSU designates programs as impacted when more applications are received in the first month of the filing period than can be accommodated. Some programs are impacted at every campus where they are offered; others are
impacted only at some campuses. You must meet
supplementary admission criteria if applying to an impacted
program.

The CSU will announce before the opening of the fall filing
period which programs are impacted and the
supplementary criteria campuses will use. That
announcement will be published in the “CSU Review,”
distributed to high school and college counselors.
Information about the supplementary criteria is also sent to
program applicants.

You must file your application for admission to an impacted
program during the first month of the filing period. Further,
if you wish to be considered in impacted programs at two
or more campuses, you must file an application to each.
The following undergraduate program is currently impacted
at CSU, Northridge: Health Science (generic option)
preparing students for admission to the Masters of
Physical Therapy.

SUPPLEMENTARY ADMISSION CRITERIA
Each campus with impacted programs uses supplementary
admission criteria in screening applicants. Supplementary
criteria may include ranking on the freshman eligibility
index, the overall transfer grade point average, and a
combination of campus-developed criteria. If you are
required to submit scores on either the SAT I or the ACT,
you should take the test no later than December if applying
for fall admission.

The supplementary admission criteria used by the
individual campuses to screen applicants appear
periodically in the “CSU Review” and are sent by the
campuses to all applicants seeking admission to an
impacted program.

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

HARDSHIP PETITIONS, UNDERGRADUATE/GRADUATE
The campus has established procedures for consideration of
qualified applicants who would be faced with extreme
hardship if not admitted. Petitioners should write the
Admissions Office regarding specific policies governing
hardship admission.

GENERAL INFORMATION CONCERNING APPLICATIONS AND
ADMISSION
APPLICATION FILING PERIODS

<table>
<thead>
<tr>
<th>Terms in 2000-2001</th>
<th>Applications First Accepted</th>
<th>Student Notification Begins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester or Quarter</td>
<td>Nov. 1, 1999</td>
<td>Dec. 1999</td>
</tr>
<tr>
<td>Winter Quarter</td>
<td>June 1, 2000</td>
<td>July 2000</td>
</tr>
<tr>
<td>Spring Semester or Quarter</td>
<td>Aug. 1, 2000</td>
<td>Sept. 2000</td>
</tr>
</tbody>
</table>

FILING PERIOD DURATION
Each campus accepts applications until capacities are
reached. Many campuses limit undergraduate admissions in
any enrollment category because of overall enrollment
limits. If applying after the initial filing period, consult the
campus admissions office for current information.

APPLICATION ACKNOWLEDGMENT
You may expect to receive an acknowledgment of your
application from your first choice campus within two to
four weeks of filing your application. A notice that space
has been reserved for you will also include a request that
you submit the records necessary for the campus to evaluate
your qualifications. You may be assured of admission if the
evaluation of your qualifications indicates that you meet
CSU admission requirements, and campus requirements for
admission to an impacted program. Such a notice is not
transferable to another term or to another campus.

USE OF SOCIAL SECURITY NUMBER
Applicants are required to include their Social Security
account number in designated places on applications for
admission pursuant to the authority contained in Title 5,
California Code of Regulations, Section 41201. The Social
Security account number is used as a means of identifying
records pertaining to the student as well as identifying the
student for purposes of financial aid eligibility and
disbursement and the repayment of financial aid and other
debts payable to the institution. Taxpayers who claim Hope
Scholarship or Lifetime Learning tax credit will be required
to provide the campus with their names, addresses and
Taxpayer Identification Numbers.

NOTIFICATION
After applications for admission have been received in the
Office of Admissions and Records, they are processed and
matched with required transcripts and test scores.
Evaluation of the records is made to determine whether
applicants meet the admission requirements. Applicants
found eligible for admission are notified by mail and given
basic instructions and information concerning registration
procedures for enrollment in classes; those who fail to meet
admission requirements are notified by mail of their
scholastic deficiencies.

CHANGE IN CHOICE OF CAMPUS
Applicants who wish to change their choice of CSU campus
after their application has been filed should obtain a Request
for Transfer of Admission Application to Alternate Choice
Campus form from the Office of Admissions and Records
and follow the instructions. A change in choice of campus
can only be made for the same term or semester of the
original application. There is no fee for this service.

DETERMINATION OF RESIDENCE FOR NONRESIDENT TUITION
PURPOSES
The campus Admissions Office determines the residence
status of all new and returning students for nonresident
tuition purposes. Responses to the Application for
Admission, Residency Questionnaire, and Reclassification
Request Form, and, if necessary, other evidence furnished
by the student are used in making this determination. A
student who fails to submit adequate information to
establish a right to classification as a California resident will
be classified as a nonresident.

The following statement of the rules regarding residency
determination for nonresident tuition purposes is not a
complete discussion of the law, but a summary of the
principal rules and their exceptions. The law governing
residence determination for tuition purposes by The
California State University is found in Education Code
Sections 68000-68090, 68121, 68123, 68124, 89705-89707.5,
and 90408, and in Title 5 of the California Code of
Regulations, Sections 41900-41912. A copy of the statutes
and regulations is available for inspection at the campus.
Admissions Office.
Legal residence may be established by an adult who is physically present in the state and who, at the same time, intends to make California his or her permanent home. Steps must be taken at least one year prior to the residence determination date to show an intent to make California the permanent home with concurrent relinquishment of the prior legal residence. The steps necessary to show California residency intent will vary from case to case. Included among the steps may be registering to vote and voting in elections in California; filing resident California state income tax forms on total income; ownership of residential property or continuous occupancy or renting of an apartment on a lease basis where one’s permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator’s license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service.
The student who is within the state for educational purposes only does not gain the status of resident regardless of the length of the student’s stay in California. In general, the unmarried minor (a person under 18 years of age) derives legal residence from the parent with whom the minor maintains or last maintained his or her place of abode. The residence of a minor cannot be changed by the minor or the appointment of a guardian for the minor, so long as the minor’s parents are living. A married person may establish his or her residence independent of his or her spouse.
An alien may establish his or her residence, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States. An unmarried minor alien derives his or her residence from the parent with whom the minor maintains or last maintained his or her place of abode.
Nonresident students seeking reclassification are required by law to complete a supplemental questionnaire concerning financial independence.
The general rule is that a student must have been a California resident for at least one year immediately preceding the residence determination date in order to qualify as a “resident student” for tuition purposes. A residence determination date is set for each academic term and is the date from which residence is determined for that term. The residence determination dates are:

**QUARTER TERM CAMPUSES**
- Fall ............... Sept. 20
- Winter ............. Jan. 5
- Spring ............. Apr. 1
- Summer ............. July 1

**SEMESTER TERM CAMPUSES**
- Fall ................ Sept. 20
- Winter* ............. Jan. 5
- Spring ............. Jan. 25
- Summer ................ June 1

*(applies only to winter term at California State University, Stanislaus)*

The residence determination dates for the four stages on CalStateTEACH are as follows:

1. **Stage 1** ....... Sept. 20
2. **Stage 2** ......... Jan. 5
3. **Stage 3** .......... June 1
4. **Stage 4** .......... Sept. 20

There are exceptions from nonresident tuition, including:

1. **Persons below the age of 19** whose parents were residents of California but who left the state while the student, who remained, was still a minor. When the minor reaches age 18, the exception continues until the student has resided in the state the minimum time necessary to become a resident.
2. **Minors who have been present in California** with the intent of acquiring residence for more than a year before the residence determination date, and entirely self-supporting for that period of time. The exception continues until the student has resided in the state the minimum time necessary to become a resident.
3. **Persons below the age of 19 who have lived with and been under the continuous direct care and control of an adult or adults, not a parent, for the two years immediately preceding the residence determination date.** Such adult must have been a California resident for the most recent year. The exception continues until the student has resided in the state the minimum time necessary to become a resident.
4. **Dependent children and spouse of persons in active military service stationed in California** on the residence determination date. There is no time limitation on this exception unless the military person transfers out of California or retires from military service. If either of those events happen, the student’s eligibility for this exception continues until he or she resides in the state the minimum time necessary to become a resident.
5. **Military personnel in active service stationed in California** on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception continues until the military personnel has resided in the state the minimum time necessary to become a resident.
6. **Military personnel in active service in California for more than one year immediately prior to being discharged from the military.** Eligibility for this exception runs from the date the student is discharged from the military until the student has resided in state the minimum time necessary to become a resident.
7. **Dependent children of a parent who has been a California resident for the most recent year**. This exception continues until the student has resided in the state the minimum time necessary to become a resident, so long as continuous attendance is maintained at an institution.
8. **Graduates of any school located in California that is operated by the United States Bureau of Indian Affairs, including, but not limited to, the Sherman Indian School**. The exception continues so long as continuous attendance is maintained by the student at an institution.
9. **Certain credentialed, full-time employees of California school districts.**
10. **Full-time CSU employees and their children and spouses; state employees assigned to work outside the state and their children and spouses.** This exception continues until the student has resided in the state the minimum time necessary to become a California resident.
11. **Children of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of law enforcement...
or fire suppression duties.

12. Certain amateur student athletes in training at the United States Olympic Training Center in Chula Vista, California. This exception continues until the student has resided in the state the minimum time necessary to become a resident.

13. Federal civil service employees and their natural or adopted dependent children if the employee has moved to California as a result of a military mission realignment action that involves the relocation of at least 100 employees. This exception continues until the student has resided in the state the minimum time necessary to become a resident.

14. State government legislative or executive fellowship program enrollees. The student ceases to be eligible for this exception when he or she is no longer enrolled in the qualifying fellowship.

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

The California State University
Office of General Counsel
401 Golden Shore
Long Beach, California 90802-4210

within 120 calendar days of notification of the final decision by the campus of the classification. The Office of General Counsel may make a decision on the issue, or it may send the matter back to the campus for further review. Students classified incorrectly as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the Admissions Office. Applications for a change in classification with respect to a previous term are not accepted.

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

HIGH SCHOOL STUDENTS PROGRAM

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required by eligible California high school graduates. Such admission is only for a given program and does not constitute the right to continued enrollment.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS, UNDERGRADUATE/GRADUATE

The CSU must assess the academic preparation of foreign students. For this purpose, “foreign students” include those who hold U.S. visas as students, exchange visitors, or others in nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of foreign students. Verification of English proficiency (see the section on TOEFL Requirement and TWE requirements), financial resources, and academic performance are all important considerations for foreign student admission. Academic records from foreign institutions must be on file at least eight weeks before registration for the first term and, if not in English, must be accompanied by certified English translations.

Priority in admission is given to residents of California. There is little likelihood of nonresident applicants, including international students, being admitted either to impacted majors or to those with limited openings. (See Impacted Programs).

CSUN has established its International Student Program under both the Foreign Student Program (F-visa) as authorized by the U.S. Immigration and Naturalization Service and the Exchange Visitor Program (J-visa) as authorized by the U.S. Department of State. Under these programs, students who are not U.S. citizens and whose previous education has been wholly or partially in a foreign country must submit their application materials and other related documents in accord with the deadline dates described below.

APPLICATION FORMS

The University has established deadlines to insure the timely processing of all application materials, receipt of academic records, test scores, financial affidavit, and other documents so that there will be adequate time for the admitted applicant to make the necessary passport, visa, and travel arrangements to reach the U.S. and the campus prior to the start of each semester. These deadline dates are:

APPLICATION DEADLINES
Fall Semester Spring Semester
November 30 August 31

DOCUMENT DEADLINES
Fall Semester Spring Semester
April 30 September 30

Each applicant must have a declared educational objective (major) when the application is filed. Applications received that do not indicate a major, one that is not offered at this University, or one that is closed will be returned without action.

All official documents submitted become the property of the University and cannot be returned. The acceptability of any foreign work will be determined by the University. The U.S. Immigration Service requires F-1 foreign visa students to enroll full-time, defined as a minimum of 12 semester units for undergraduate students, and 8 semester units for graduate students. International students must comply with all University and U.S. Immigration Service regulations.

ACADEMIC RECORDS, INTERNATIONAL STUDENTS

UNDERGRADUATE APPLICANTS

Either original documents or certified photocopies of original documents of previous international school records are acceptable. Transfer students from U.S. institutions should request that official transcripts be mailed directly to the Admissions Office. Students with foreign academic work are required to submit official copies of academic records, along with a certified English translation. Academic records should include: (1) secondary school records; (2) yearly records from each college or university attended, indicating the number of hours per semester or per year devoted to each course and the grades received; (3) official documents that confirm awarding of the degree with the title and date.
The Office of Admissions and Records will examine all records to determine if they are adequate and will inform applicants if additional records are required.

The evaluation of all documents is made in the Office of Admissions and Records to determine that applicants have had an education comparable to that required of California high school graduates or students transferring to the University from other institutions of higher education in the United States.

GRADUATE/POSTBACCALAUREATE APPLICANTS
Postbaccalaureate or graduate applicants must furnish the same materials as those required of undergraduate applicants described above. Admission of foreign graduate students will involve consultation with the graduate advisor from the department or school to which the student is applying for study. Scholastically eligible foreign graduate students may be admitted, dependent upon the preparation of the student as assessed by the Office of Admissions and the graduate advisor of the appropriate school or department. For further information, consult the Office of Admissions and Records. See also the Graduate Programs section of the catalog.

ENGLISH LANGUAGE PROFICIENCY

UNDERGRADUATE INTERNATIONAL APPLICANTS
All undergraduate applicants, regardless of citizenship, whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who have not attended, for at least three years full-time, schools at the secondary level or above where English is the principal language of instruction, must earn a minimum score of 500 on the Test of English as a Foreign Language (TOEFL). Applicants taking the Computer Based Test of English as a Foreign Language must present a score of 173 or above. Some campuses may require a higher score.

GRADUATE AND POSTBACCALAUREATE INTERNATIONAL APPLICANTS
All graduate and postbaccalaureate applicants, regardless of citizenship, whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor’s degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL), and must complete the Test of Written English. Applicants who satisfy other admissions requirements but score below 4.5 on the TWE will be required to enroll in English 090 during their first semester in residence. Applicants taking the Computer Based Test of English as a Foreign Language must present a score of 213 or above. Some campuses may require a higher score.

FINANCES, INTERNATIONAL STUDENTS
CSUN has no financial aid for international students. For this reason foreign students must detail precisely how they intend to finance their studies. If an applicant expects to receive financial support from his/her government or other sponsoring agencies, he/she is required to fully document these facts by completing the Financial Statement and Affidavit available in the Office of Admissions and Records.

Part-time employment opportunities, although not plentiful, are available on campus. International visa students may apply for an on-campus work permit in the Office of International and Exchange Programs after their first semester of study. Immigration and Naturalization regulations prohibit off-campus employment of International students in the United States without explicit permission.

INTERNATIONAL STUDENT ADVISOR

OFFICE OF STUDENT DEVELOPMENT AND INTERNATIONAL PROGRAMS
USU SW 113  Phone: (818) 677-3053
The Office of Student Development and International Programs provides services to all international undergraduate and graduate visa students after they are formally admitted to the University.

The Office of Student Development and International Programs will assist international students in 1) choosing a pattern of courses for general education requirements, and referring them to the appropriate department for academic advising in their major field of study 2) complying with the laws and regulations of the U.S. Immigration and Naturalization Service and 3) dealing with academic or personal problems.

The Office also coordinates cultural and social events so that international students can share their national heritage with the campus educational community. A special orientation program is provided at the beginning of each semester to assist international students in adjusting to the campus environment and to American customs.

SYSTEMWIDE TESTS REQUIRED OF MOST NEW STUDENTS

The CSU requires new students to be tested in English and mathematics as soon as possible after they are admitted and before enrollment. These are not admission tests, but a way to determine whether you are prepared for college work and, if not, to counsel you how to strengthen your preparation. You might be exempted from one or both of the tests if you have scored well on other specified tests or completed appropriate courses.

ENGLISH PLACEMENT TEST (EPT)

The CSU English Placement Test must be completed by all non-exempt undergraduates prior to placement in appropriate university English coursework. Exemptions from the test are granted only to those who present proof of one of the following:

- A score of 550 or above on the Verbal section of the College Board SAT I* Reasoning Test taken on or after April 1, 1995.
- A score of 470 or above on the Verbal section of the College Board SAT I* Reasoning Test taken between March 1994 and March 1995. A score of 470 or above on the Verbal section of the College Board Scholastic Aptitude Test (SA) taken prior to March 1994.
- A score of 24 or above on the enhanced ACT English Test taken October 1989 or later.
- A score of 22 or above on the American College Testing (ACT) English Usage Test taken prior to October 1989.
- A score of 680 or above on the re-centered and adjusted College Board SAT II: Writing Test taken May 1998 or after.
- A score of 660 or above on the College Board SAT II* in English Composition with essay taken prior to January 1994.

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3 Undergraduates admitted with 56 or more transferable semester units and who are subject to a campus catalog or bulletin earlier than 1986-87 are not required to complete the EPT.
• A score of 3, 4, or 5 on either the Language and Composition or the Composition and Literature examination of the College Board Scholastic Advanced Placement program.
• A score on the CSU English Equivalency Examination that qualifies the student for “Pass for Credit” or “Exemption.”
• Completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Education Transfer Curriculum (IGETC) written communication requirement, provided such course was completed with a grade of “C” or better.

*Note: The College Board SAT and Achievement Tests were replaced by SAT I and SAT II, respectively, beginning March 1994. Beginning April 1, 1995, the SAT I and SAT II exams have been scored on a new scale.

California State University required completion of or exemption from the ELM/EPT requirement prior to your initial enrollment. Contact the Office of Admissions and Records for details and deadlines, (818) 677-3700.

Completion of the English Placement Test is required for enrollment in the developmental writing and freshman composition courses of the Departments of Asian American Studies, Chicano Studies, English, and Pan-African Studies. A score of 141 or below places the student in the 097: Developmental Reading course. 142 - 150 is required for enrollment in 098: Developmental Writing. A score of 151 and above qualifies the student for enrollment in 155, the freshman composition courses for Chicano Studies, English, and Pan-African Studies.

Information bulletins and registration materials for the EPT will be mailed to all students subject to these requirements. Alternatively, the materials may be obtained from the Office of Admissions and Records. Information on currently available ways to meet the graduation requirement may be obtained from the University Coordinator, Writing Skills Programs, or by calling (818) 677-2033.

ENTRY-LEVEL MATHEMATICS (ELM) EXAM

The ELM examination is a placement test that assesses entry level mathematics skills acquired through three years of rigorous college preparatory mathematics coursework (normally Algebra I, Algebra II, and Geometry). Its topics include algebra (approximately 60%), geometry (approximately 20%), and data interpretation, counting, probability and statistics (approximately 20%). All undergraduate students must take the test or be exempted from it prior to enrollment in any course, including remedial courses. Exemptions from the test are given only to those students who can present proof of one of the following:

• A score of 550 or above on the mathematics section of the College Board SAT I* Reasoning Test or on the College Board SAT II* Mathematics Tests Level I, IV (Calculator), II, or IIC (Calculator).
• A score of 23 or above on the American College Testing (ACT) Mathematics Test.
• A score of 3 or above on the College Board Advanced Placement Mathematics examination (Calculus AB or Calculus BC).
• A score of 3 or above on the College Board Advanced Placement Statistics examination.
• Completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Education Transfer Curriculum (IGETC) quantitative reasoning requirement, provided such course was completed with a grade of “C” or better.

Successful completion of the ELM test or a grade of credit in the appropriate CSUN developmental mathematics courses (see Mathematics Department course list in this catalog or contact the Developmental Mathematics Office for more information) is a prerequisite for enrollment in all university-level mathematics courses at CSUN, as well as Chemistry 103, 105 and 110 and Physical Science 150 and 170. ELM exemption based on SAT, ACT or Advanced Placement test scores as listed above will also meet this prerequisite.

However, students who wish to qualify for enrollment in university-level mathematics courses at CSUN on the basis of a transfer course, can only do so if the transfer course is a mathematics course above the level of intermediate algebra.

Liberal Studies majors who are credential candidates should be aware that the ELM requirement must be met in order to enroll in either Mathematics 210 or Mathematics 310. A transfer course equivalent to 210 will NOT enable students to enroll in Mathematics 310 at CSUN unless they have also met the ELM requirement for enrollment.

For students who wish to enroll in calculus courses at CSUN (Mathematics 150A or Mathematics 255A), completion of the Mathematics Placement Test (MPT) does not replace the ELM requirement.

MATHEMATICS PLACEMENT TEST (MPT)
The MPT is required, in addition to the ELM, for enrollment in Mathematics 150A and 255A and must have been taken within the year preceding enrollment in these courses. A minimum score of 24 on the MPT is required for enrollment in 150A and a minimum score of 22 for 255A.

The current version of the MPT is 60 minutes long and consists of 40 multiple choice questions on trigonometry and advanced topics from intermediate algebra.

Dates and test registration cards are available in the Testing Center, phone (818) 677-2369. Students will be required to present the paid registration form for admission to the test. See Schedule Of Fees.

CHEMISTRY PLACEMENT TEST

Students planning to enroll in Chemistry 101/101L must satisfy one of the following requirements prior to registration:

• Satisfactory score on the CSUN Chemistry Placement Test (CPT)
• Score of 3, 4 or 5 on the College Board Advanced Placement Test in Chemistry
• Score of 48 or higher on the General Chemistry Exam of the College Level Examination Program (CLEP)
• Grade of “C” or higher (“C-” is unacceptable) in CHEM 105 taken AT CSUN

The Chemistry Placement Test (CPT) covers high school chemistry and applied algebra. Students who fail the CPT may enroll in CHEM 101/101L after completing CHEM 105 AT CSUN with a grade of “C” or higher (“C-” is unacceptable) or after retaking the CPT with a satisfactory score. Contact the CSUN Testing Center at (818) 677-2369 for CPT registration forms. (See Schedule of Fees in the Regulations section of the Catalog for the amount of test fee required.) Successful completion of the ELM test or an approved exemption is a prerequisite for enrollment in CHEM 105. For class information, contact the Chemistry Department, SC 1300, (818) 677-3381.
PHYSICAL EXAMINATION
HEALTH SCREENING/MEASLES REQUIREMENT
New and re-admitted students are required to show proof of immunity to measles (Rubeola) and rubella (German Measles) within their first semester at CSUN. Submit medical documentation to the Student Health Center that both vaccinations were received since age one or receive the vaccination at no charge at the Student Health Center. Students will not be allowed to register for a second semester until this requirement has been completed.

HEPATITIS REQUIREMENT
Beginning with Fall 2000 semester, new students aged 18 or under will be required to provide proof of full immunization against the hepatitis B virus prior to enrollment. Students who have not yet started or completed the series of 3 vaccinations will be given a grace period in which to comply. The series takes 7 months to complete and must be completed before the end of the second semester or you will not be allowed to register for your second year until this requirement is met. If the series is completed before your 19th birthday, the Student Health Center can provide your immunizations free of charge. After age 19, the charge is approximately $35 per immunization.

ADVANCED PLACEMENT EXAMINATIONS - CREDIT ALLOWANCES AND EQUIVALENCIES

<table>
<thead>
<tr>
<th>EXAMINATION</th>
<th>SCORE</th>
<th>CREDIT ALLOWED TOWARD DEGREE</th>
<th>CSUN COURSE EQUIVALENT (DO NOT ENROLL IN THESE COURSES)</th>
<th>APPLICATION IN GENERAL EDUCATION (GE) AND/OR TITLE 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art: History</td>
<td>3,4,5</td>
<td>6 units</td>
<td>Consult Art History Department Chair</td>
<td>3 units applied in Humanities Section of GE</td>
</tr>
<tr>
<td>Art: Studio Drawing</td>
<td>3,4,5</td>
<td>6 units</td>
<td>Art 124A</td>
<td>3 units applied in Humanities Section of GE</td>
</tr>
<tr>
<td>Art: Studio General</td>
<td>3,4,5</td>
<td>6 units</td>
<td>Art 100</td>
<td>3 units applied in Humanities Section of GE</td>
</tr>
<tr>
<td>Biology</td>
<td>3,4,5</td>
<td>6 units</td>
<td>Biology 106+107</td>
<td>3 units applied in GE Section B-1, Biological &amp; Physical Sciences, unless major is Biology. DOES NOT meet laboratory requirement.</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3,4,5</td>
<td>6 units</td>
<td>CHEM 105 (Consult Chemistry Dept. Chair)</td>
<td>6 units applied to GE Section B-1, Biological &amp; Physical Sciences, unless major is Chemistry Major. DOES NOT meet laboratory requirement.</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>3</td>
<td>6 units</td>
<td>Consult Computer Science Dept.</td>
<td>3 units in GE Section E unless Computer Science major.</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>4,5</td>
<td>6 units</td>
<td>Comp 110/110L</td>
<td>3 units in GE Section E unless Computer Science major.</td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>3</td>
<td>6 units</td>
<td>Comp 110/110L &amp; Comp 182</td>
<td>3 units in GE Section E unless Computer Science major.</td>
</tr>
<tr>
<td>Economics,</td>
<td></td>
<td></td>
<td></td>
<td>3 units in GE Section E unless Computer Science major.</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3,4,5</td>
<td>3 units</td>
<td>Econ 200 (with 3,4,5 also in Econ,Macro)</td>
<td>3 units in GE Section D unless Econ major.</td>
</tr>
<tr>
<td>English Language</td>
<td>3,4,5</td>
<td>3 units</td>
<td>English 155</td>
<td>3 units in GE Section D unless Econ major.</td>
</tr>
<tr>
<td>and Comp.</td>
<td></td>
<td></td>
<td></td>
<td>3 units applied in Basic Subjects Section (Written Composition) of GE. Allows for exemption from English Placement Test and lower division writing skills requirement.</td>
</tr>
<tr>
<td>European History</td>
<td>3,4,5</td>
<td>6 units</td>
<td>History 150, 151</td>
<td>3 units applied in Comparative Cultural Studies Section (History of West. Civ.) of GE, and 3 units in Social Sciences Section of GE (unless major is History).</td>
</tr>
<tr>
<td>French Language</td>
<td>3,4,5</td>
<td>6 units</td>
<td>Consult Foreign Language Dept. Chair</td>
<td>3 units applied in either GE Section F-2, International Cross-Cultural Studies, or GE Section F-3, Intra-National Cross-Cultural Studies (unless major is French).</td>
</tr>
<tr>
<td>French Literature</td>
<td>3,4,5</td>
<td>6 units</td>
<td>Consult Foreign Language Dept. Chair</td>
<td>3 units applied in either GE Section F-2, International Cross-Cultural Studies, or Section F-3, Intra-National Cross-Cultural Studies (unless major is French).</td>
</tr>
<tr>
<td>German Language</td>
<td>3,4,5</td>
<td>6 units</td>
<td>Consult Foreign Language Dept. Chair</td>
<td>3 units applied in either GE Section F-2, International Cross-Cultural Studies, or GE Section F-3, Intra-National Cross-Cultural Studies (unless major is German).</td>
</tr>
</tbody>
</table>

6 Maximum of 6 units allowed for the completion of both Computer Science A and Computer Science AB examinations.
7 Must complete both Macroeconomics and Microeconomics to receive Econ 200 equivalency.
8 Maximum of 6 units allowable towards Bachelor’s degree for completion of both English Language & Comp. and English Comp. & Lit. examinations.
<table>
<thead>
<tr>
<th>Examination</th>
<th>Score</th>
<th>Units</th>
<th>Credit Allowed Toward Degree</th>
<th>CSUN Course Equivalent</th>
<th>Application in General Education (GE) and/or Title 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latin: Vergil</td>
<td>3,4,5</td>
<td>3</td>
<td>Consult Foreign Language Dept. Chair</td>
<td>3 units</td>
<td>3 units applied in either GE Section F-2, International Cross-Cultural Studies, or GE Section F-3, Intra-National Cross-Cultural Studies.</td>
</tr>
<tr>
<td>Latin: Literature</td>
<td>3,4,5</td>
<td>3</td>
<td>Consult Foreign Language Dept. Chair</td>
<td>3 units</td>
<td>3 units applied in either GE Section F-2, International Cross-Cultural Studies, or GE Section F-3, Intra-National Cross-Cultural Studies.</td>
</tr>
<tr>
<td>Government &amp; Politics (U.S.)</td>
<td>3,4,5</td>
<td>6</td>
<td>Consult Political Science Dept. Chair</td>
<td>2 units</td>
<td>2 units applied toward Title 5 US Constitution requirement (consult Political Science Department chair for satisfying California Government requirement)</td>
</tr>
<tr>
<td>Government &amp; Politics (Comparative)</td>
<td>3,4,5</td>
<td>6</td>
<td>Pol S 156</td>
<td>3 units</td>
<td>3 units applied in GE Section D (unless Political Science major)</td>
</tr>
<tr>
<td>Math: Calculus AB&lt;sup&gt;9&lt;/sup&gt;</td>
<td>3,4,5</td>
<td>5</td>
<td>Math 150A</td>
<td>5 units</td>
<td>5 units applied in GE Section A-3, Mathematics. Allows for exemption from Entry-Level Mathematics (ELM) test.</td>
</tr>
<tr>
<td>Math: Calculus BC&lt;sup&gt;9&lt;/sup&gt;</td>
<td>3,4,5</td>
<td>6</td>
<td>Math 150A + Math 150B</td>
<td>5 units</td>
<td>5 units applied in GE Section A-3, Mathematics. Allows for exemption from Entry-Level Mathematics (ELM) test.</td>
</tr>
<tr>
<td>Music: Listen/ Literature</td>
<td>3,4,5</td>
<td>6</td>
<td>Music 105</td>
<td>3 units</td>
<td>3 units applied in Humanities Section (Fine Arts, unless major is Music) of GE, and 3 units elective credit (not GE).</td>
</tr>
<tr>
<td>Music: Theory</td>
<td>3,4,5</td>
<td>6</td>
<td>No CSUN Music Equivalency</td>
<td>3 units</td>
<td>3 units applied in Humanities Section (Fine Arts, unless major is Music) of GE, and 3 units elective credit (not GE).</td>
</tr>
<tr>
<td>Physics B&lt;sup&gt;10&lt;/sup&gt;</td>
<td>3,4,5</td>
<td>6</td>
<td>Physics 100A + 100B</td>
<td>6 units</td>
<td>6 units applied in GE Section B-1, Biological &amp; Physical Sciences Section of GE (unless major is Physics). Does not meet lab. requirement in Natural Sciences.</td>
</tr>
<tr>
<td>Physics C: Mechanics</td>
<td>3,4,5</td>
<td>3</td>
<td>Physics 220A</td>
<td>3 units</td>
<td>3 units applied in GE Section B-1, Biological &amp; Physical Sciences Section of GE (unless major is Physics). Does not meet Lab. requirement in Natural Sciences.</td>
</tr>
<tr>
<td>Physics C: Elec. &amp; Mag.</td>
<td>3,4,5</td>
<td>3</td>
<td>Physics 220B</td>
<td>3 units</td>
<td>3 units applied in GE Section B-1, Biological &amp; Physical Sciences Section of GE (unless major is Physics). Does not meet Lab. requirement in Natural Sciences.</td>
</tr>
<tr>
<td>Psychology</td>
<td>3,4,5</td>
<td>3</td>
<td>Consult Psychology Dept. Chair</td>
<td>no current GE placement.</td>
<td>no current GE placement.</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3,4,5</td>
<td>6</td>
<td>Consult Foreign Language Dept. Chair</td>
<td>3 units</td>
<td>3 units applied in either GE Section F-2, International Cross-Cultural Studies, or GE Section F-3, Intra-National Cross-Cultural Studies (unless major is Spanish).</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>3,4,5</td>
<td>6</td>
<td>Consult Foreign Language Dept. Chair</td>
<td>3 units</td>
<td>3 units applied in either GE Section F-2, International Cross-Cultural Studies, or GE Section F-3, Intra-National Cross-Cultural Studies (unless major is Spanish).</td>
</tr>
<tr>
<td>Statistics</td>
<td>3,4,5</td>
<td>4</td>
<td>Math 140</td>
<td>4 units</td>
<td>4 units applied to GE sub-section A-3. Gives exemption from the Entry Level Mathematics (ELM) test.</td>
</tr>
<tr>
<td>U.S. History</td>
<td>3,4,5</td>
<td>6</td>
<td>History 270, 271</td>
<td>3 units</td>
<td>3 units applied toward Title 5, U.S. History requirement.</td>
</tr>
</tbody>
</table>

**COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)**

<table>
<thead>
<tr>
<th>Examination</th>
<th>Passing Score</th>
<th>Credit</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics General Exam (1975 edition)</td>
<td>50*</td>
<td>3</td>
<td>3 units, Allows for exemption from Entry-Level Mathematics (ELM) test.</td>
</tr>
<tr>
<td>College Algebra-Trigonometry</td>
<td>49</td>
<td>3</td>
<td>3 units, Allows for exemption from Entry-Level Mathematics (ELM) test.</td>
</tr>
<tr>
<td>Calculus and Analytic Geometry</td>
<td>48</td>
<td>3</td>
<td>3 units, Allows for exemption from Basic Subjects Section (Mathematics) of GE.</td>
</tr>
<tr>
<td>Statistics</td>
<td>49</td>
<td>3</td>
<td>3 units, Allows for exemption from Biological and Physical Sciences Section of GE (unless major is Chemistry).</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>48</td>
<td>3</td>
<td>3 units, Does not meet Lab. requirement in Natural Sciences.</td>
</tr>
<tr>
<td>English Composition Essay General Exam</td>
<td>550</td>
<td>3</td>
<td>3 units, Allows for exemption from Basic Subjects Section (Written Composition) of GE.</td>
</tr>
<tr>
<td>English Composition with Essay (1986 scale)</td>
<td>440</td>
<td>3</td>
<td>3 units, Allows for exemption from English Placement Test and lower division writing skills requirement.</td>
</tr>
<tr>
<td>Freshmen English with Essay Subject Exam</td>
<td>550</td>
<td>3</td>
<td>3 units, Allows for exemption from English Placement Test and lower division writing skills requirement.</td>
</tr>
</tbody>
</table>

* On both parts of the exam.

* Maximum units allowable toward Bachelor’s degree for completion of both Mathematics Calculus AB & BC exams is 10 units.

10 Maximum of 6 units allowable in General Education for completion of both Physics B and C exams.
Credit transferred to the University to semester units by multiplying quarter-unit totals by two-thirds. Students should consult a faculty advisor in their major department who will assist them in the selection of courses. Students who have yet to declare a major should seek advisement in the Advising Resource Center/EOP.

CREDIT FOR WORK TAKEN AT COMMUNITY COLLEGES
Credit earned in accredited community colleges will be evaluated by the Office of Admissions and Records in accordance with the following provisions:

1. Community college credit is allowed up to a maximum of 70 semester units. Credits and grades earned after the student has the maximum allowable may only satisfy subject and grade point requirements but cannot apply toward the total units required for graduation from the University.
2. No upper division credit may be earned for community college work.
3. No credit may be allowed for professional courses in education taken in a community college, other than an introduction to education course.

The University publishes a series of articulation agreements with local community colleges outlining how coursework at the community college applies to CSUN requirements, both in the major and in General Education. These are available from the Articulation Officer in the office of Undergraduate Studies, and are widely distributed to community college counselors and to CSUN offices engaged in advising transfer students.

Students who transfer to CSUN from a California community college may have up to 39 semester units of their General Education program certified. Such certification will be recognized within the limits published by the Chancellor of the CSU. General Education Certified students need to complete only residence and upper division General Education requirements (see Undergraduate Programs, General Education).

Transfer students from the California community colleges are urged to consult their community college counselors for assistance in determining the extent to which they meet that college’s General Education certification program and should send a final transcript to CSUN showing Certification. That Certification will then be reflected on the DARS Audit Report.

CREDIT/NO CREDIT WORK
A maximum of 18 semester units with restrictions may be applied toward the bachelor’s degree for CSUN “Credit” graded courses. If 18 or more semester “Credit” graded units are accepted in transfer from other institutions, no additional “Credit” graded CSUN courses may be used to satisfy degree requirements. Consult Categories of Enrollment under the Regulations section of the catalog for further information concerning CSUN policies governing the Credit/No Credit grading option.

CREDIT BY EXAMINATION

ADVANCED PLACEMENT
CSUN grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Up to six semester units of college credit will be granted to students who present scores of 3 or better on an Advanced Placement Examination. Credit will not be awarded for any examinations which overlap other examinations or equivalent college courses. Where partial overlap exists, the amount of credit awarded will be appropriately prorated.

The College Level Examination Program (CLEP) tests are acceptable for the amount of credit indicated and subject to the achievement of the scores given.

The evaluation of credit for CLEP Examinations not represented is determined by the appropriate CSUN Department.

AMERICAN CHEMICAL SOCIETY COOPERATIVE EXAMINATION IN GENERAL CHEMISTRY
Students who have passed the American Chemical Society Cooperative Examination in General Chemistry at or above the 50th percentile will receive three semester units of credit.

CSU ENGLISH EQUIVALENCY EXAMINATION
The English Equivalency Examination is an examination that has been offered by the CSU system. It was administered each spring on various campuses to prospective freshmen. Students who passed both the objective and essay portions of the examination were exempted from the English Placement Test (EPT), and granted six semester units of University credit equivalent to English 155 and 255. Some students did not receive unit credit for the English Equivalency Examination, but scored well enough to be exempted from the English Placement Test.

RESTRICTIONS ON EXAM CREDIT
No credit for any of the foregoing examinations will be awarded to a student who has: (1) taken the examination previously within the past term; (2) earned equivalent credit through regular coursework, credit by another examination, or other instructional processes, such as correspondence; (3) earned credit previously at a level more advanced than that represented by the examination in question.

Credit will not be awarded for examinations which overlap other examinations or college level courses. Where partial overlap exists, the amount of examination credit shall be reduced accordingly.

The total amount of credit earned on the basis of externally developed tests which may be applied to a baccalaureate degree cannot exceed 30 semester units, exclusive of credit for Advanced Placement Examinations. In no case will credit so awarded count toward residence credit.

OTHER CREDIT

CREDIT FOR EXTENSION & CORRESPONDENCE COURSES
The maximum amount of credit through correspondence courses and/or extension courses which may be allowed toward the bachelor’s degree is 24 units. Extension course credit does not apply toward the residence requirement at California State University, Northridge. Extension courses numbered 800 do not carry any credit toward CSUN graduation or credential requirements.

Extension courses from other accredited educational institutions must have been acceptable for credit at the parent institution for the baccalaureate degree. The nature of the credit for the degree at CSUN shall be determined by the appropriate academic departments.

PRIOR EXPERIENTIAL LEARNING
Credit for Prior Experiential Learning is recognized on an individual course equivalency basis at CSUN, and appropriate credit provided through the departmentally administered Credit by Challenge Examination policies and procedures.
NON-COLLEGIATE SPONSORED COURSES OF INSTRUCTION
Requests for credit for Non-Collegiate Sponsored Courses of Instruction are evaluated on an individual basis through departmental determination of specific course equivalencies based upon consideration of the recommendations contained within the current National Guide to Educational Credit for Training Programs, American Council on Education. The reviewing department determines the appropriate equivalencies for subject credit, unit credit or General Education credit, and also whether a Challenge Examination will be administered.

CREDIT FOR MILITARY SERVICE
CSUN grants elective undergraduate credit to veterans who have completed basic training in the armed forces of the United States. A maximum of 24 extension course units may be allowed for baccalaureate-level course credit certified by the Defense Activities in Nontraditional Education Support (DANTES). Courses taken in service schools may be given credit on the basis of an evaluation which determines they are of university level and recommended for credit by the Center for Adult Learning and Educational Credentials of the American Council on Education. Records verifying such experience must be filed with the Office of Admissions and Records.

APPENDIX E
INSTITUTIONAL & FINANCIAL ASSISTANCE
The following information concerning student financial assistance may be obtained from the Financial Aid Office, Student Services Building, First Floor, Lobby (818) 677-3000:

1. student financial assistance programs, including state grants, available to students who enroll at CSUN;
2. the methods by which student eligibility for aid is determined and by which such assistance is distributed among students who enroll at CSUN;
3. the means, including forms, by which application for student financial assistance is made and requirements for accurately preparing such application;
4. the availability of federal financial aid funds for study-abroad programs
5. the rights and responsibilities of students receiving financial assistance;
6. the terms and conditions of any employment offered as financial aid;
7. the availability of community-service Federal Work-Study jobs;
8. the terms of, schedules for, and necessity of loan repayment; and
9. the standards the student must maintain to be considered to be making satisfactory academic progress for the purpose of establishing and maintaining eligibility for financial assistance and procedures to be followed to regain eligibility.

The following information concerning the cost of attending CSUN is available from Student Financial Services, (818) 677-2306:

1. fees and tuition (where applicable);
2. estimated costs of books and supplies;
3. estimates of typical student room and board costs and typical commuting costs; and
4. any additional costs of the program in which the student is enrolled or expresses a specific interest.

Information concerning the refund policy of CSUN for the return of unearned tuition and fees or other refundable portions of costs is available from Financial Aid Office, Student Services Building, First Floor, Lobby (818) 677-3000.

Information concerning policies regarding any return of federal Title IV student assistance funds as required by regulation is available from Financial Aid Office, Student Services Building, First Floor, Lobby (818) 677-3000.

Information concerning the academic programs of CSUN may be obtained from the Office of University Relations, (818) 677-2130, and may include:

1. the current degree programs and other educational and training programs;
2. the instructional, laboratory, and other physical plant facilities that relate to the academic program;
3. the faculty and other instructional personnel;
4. data regarding student retention and graduation at CSUN and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest; and
5. the names of associations, agencies, or governmental bodies which accredit, approve, or license the institution and its programs, and the procedures under which any current or prospective student may obtain or review upon request a copy of the documents describing the institution's accreditation, approval, or licensing.

Information regarding special facilities and services available to students with disabilities may be obtained from the Office of Students with Disabilities Resources, Student Services Building, Room 110, (818) 677-2684.

Information concerning CSUN's policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from the Department of Public Safety, Building 14, (818) 677-2211.

Information concerning CSUN's annual campus security report may be obtained from the Department of Public Safety, Building 14, at (818) 677-2211.

Information concerning the prevention of drug and alcohol abuse may be obtained from the Student Health Center at (818) 677-3693.

Information concerning the graduation rates of students enrolling at CSUN may be obtained from the Office of Admissions and Records.

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that CSUN dedicates to its men's and women's teams may be obtained from the Office of Intercollegiate Athletics.

Information concerning grievance procedures for students who feel aggrieved in their relationships with the university, its policies, practices and procedures, or its faculty and staff may be obtained from the Office of the Vice President for Student Affairs, (818) 677-2391.

The federal Military Selective Service Act (the “Act”) requires most males residing in the United States to present themselves for registration with the Selective Service system within thirty days of their eighteenth birthday. Most males born after December 31, 1959, may be required to submit a statement of compliance with the Act and regulations in
order to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at http://www.sss.gov.

APPENDIX F

ACCOMMODATION OF RELIGIOUS CREED

(CALIFORNIA EDUCATION CODE, SECTION 89320)

In compliance with the California Education Code, it is the policy of California State University, Northridge to permit any student to take tests or examinations, without penalty, at a time when that activity would not violate the student’s religious creed. This requirement does not apply in the event that administering the test or examination at an alternate time would impose an undue hardship which could not reasonably have been avoided. The burden of proof is upon the University to sustain the issue of undue hardship.

Students should make requests to the instructor during the first two weeks of the semester, or immediately after an examination date is announced. Students who do not receive the requested accommodation should notify the appropriate Department Chair or the Vice President for Student Affairs.
FACULTY
AND
ADMINISTRATION
ABELES, KIM (1998) ..................Assistant Professor of Art

ADAMS, JOHN P. (1989) ..............Professor of Modern & Classical Languages & Literatures
A.B. 1968, Fordham University; M.Ph. 1971, Ph.D. 1976, Yale University.

ABBRIT, JERRY W. (1980) ..........Professor of Theatre

ABOUREZK, TAMI L. (1990) ........Associate Professor of Kinesiology

ABRASH, HENRY L. (1961) ........Professor of Chemistry

ACKERMAN, DAVID (1998) .........Assistant Professor of Marketing
B.A. 1983, University of Chicago; M.B.A. 1987, University of Texas.

ACUNA, BELINDA (1978) ..........Director, Science and Math Advisement Center
B.A. 1978, California State University, Northridge.

ACUNA, RUDOLPH F. (1969) .......Professor of Chicano/a Studies
B.A. 1957, M.A. 1962, California State University, Los Angeles; Ph.D. 1968, University of Southern California.

ACUNA, BELINDA (1978) .........Director, Science and Math Advisement Center
B.A. 1978, California State University, Northridge.

ADAMS, HERBERT G. (1973) ......Professor of Geoscience
B.A. 1961, Pomona College; M.S. 1968, Ph.D. 1972, University of Southern California, Los Angeles; Registered Geologist; Certified Engineering Geologist, State of California.

ADAMS, JANET (1991) ...............Associate Professor of Health Sciences
B.S. 1976, University of Illinois; M.S. 1987, DPT 1966, University of Southern California.

ADAMS, JEANNE P. (1995) .........Assistant Professor of Educational Leadership and Policy Studies
B.A. 1966, M.A. 1974, California State University, Los Angeles; Ph.D. 1987, University of California, Santa Barbara.

ADAMS, JOHN P. (1989) ..........Professor of Modern & Classical Languages & Literatures
A.B. 1968, Fordham University; M.Ph. 1971, Ph.D. 1976, Yale University.

ADAMS, JOHN W. (1984) ..........Professor of Engineering
Ph.D. 1982, University of California, Los Angeles.

AGUINIGUE, PATRICK (1991) ....Outreach Counselor
B.S. 1991, California State University, Northridge.

AINSWORTH, FAYE (1994) .........Director of Development, College of Arts, Media and Communication
B.A. 1980, California State University, Northridge.

AKER, CHARLES R. (1998) .........Associate Professor of Communication Disorders and Sciences
B.S. 1975, Memphis State University; M.S. 1981, Ph.D. 1983, Florida State University.

AKS, DAVID M. (1988) ..............Professor of Music

ALFANO, EDWARD C. (1989) ......Professor of Art
A.B. 1971, Shimer College; M.S. 1976, Northeastern University.

ALHASHIM, DHIA D. (1974) ......Professor of Accounting and Management Information Systems
B.B.A. 1962, University of Bagdad, Iraq; M.B.A. 1965, University of California, Los Angeles; Ph.D. 1971, University of Missouri, Columbia.

ALLEN, JAMES P. (1969) ..........Professor of Geography
B.A. 1958, Amherst College; M.A.T. 1959, Harvard University; Ph.D. 1970, Syracuse University.

ALLEN, LARRY G. (1982) ..........Professor of Biology
B.A. 1974, M.A. 1976, California State University, Fullerton; Ph.D. 1980, University of Southern California.

ALLEN, LARRY G. (1982) ..........Professor of Biology
B.A. 1974, M.A. 1976, California State University, Fullerton; Ph.D. 1980, University of Southern California.

ALLEN, VICKI M. (1994) ..........Activities Coordinator, Student Development
B.A. 1990, Humboldt State University.

ALMOGOLA, ROBBIE (1977) ......Associate Director for Residential Life
B.A. 1990, Western Illinois University.

ANDERSON, KAREN (1971) .........Librarian, Reference and Instructional Services

ANDERSON, SHIRLEY C. (1981) ....Professor of Marketing
B.S. 1960, Ohio State University; M.A. 1968, University of Washington; Ph.D. 1978, University of California, Los Angeles.

ANSARI, SHAHOOD L. (1986) .......Professor of Accounting and Management Information Systems

ANSCOMBE, FLOYD W. (1976) ....Professor of Theatre
B.S. 1968, University of Southern California, Irvine, College of Medicine.

ARAGON, RALU (1991) .............Special Assistant to the Director, Education Opportunity Program
B.S. 1968, California State University, Northridge.

B.S. 1968, M.A. 1986, California State University, Northridge.

ARIMITSU, TOUKO (1985) .........Assistant Professor of Japanese Language

ARMENANTO, JEANETTE F. (1994) Assistant Coach, Intercollegiate Athletics

ARNRY, JANNIA (1998) ..........Assistant Professor of Management Information Systems

ARTHUR, R. ANTHONY (1970) .....Professor of English

ASHTON, TAMARA M. (1998) ......Assistant Professor of Special Education

ATHEY, JOEL W. (1989) ..........Associate Professor of English
B.A. 1966, M.A. 1968, Kansas State University; Ph.D. 1986, University of Texas.

ATTIAS, BERNARDO A. (1994) ....Assistant Professor of Communication Studies
B.S. 1988, Northwestern University; Ph.D. 1997, University of Iowa.

AUCHTERLONIE, MARGARET (1985) Executive Director, College of Extended Learning, Educational Technologies and Distance Learning Services
B.A. 1968, California State University, Northridge.

AUER, H. MICHAEL, JR. (1969) ....Professor of Educational Psychology and Counseling


BACELIS, CONNIE M. (1994) ......Academic Advisor, College of Health and Human Development
B.A. 1991, California State University, Northridge.

BADER, THOMAS M. (1964) ......Professor of History

BAGHERI, HOOSHANG (1988) ....Professor of Elementary Education

BAIPAL, SHIVA G. (1970) .........Professor of History
B.A. 1955, M.A. 1957, Banaras Hindu University, India; Ph.D. 1967, University of London.

BAILES, BARNEY L. (1969) ......Professor of Physics and Astronomy
B.S. 1962, Ph.D. 1968, University of Colorado.

BALL, EDWARD (1996) .............Associate Director of Transportation and Parking Services

BANNER, LISA (1998) ..............Assistant Professor of Biology
B.S. 1984, San Diego State University; Ph.D. 1992, University of Southern California, School of Medicine.

BARRON, CAROLYN K. (1968) ....Associate Professor of Kinesiology
B.A. 1964, California State University, Long Beach; M.Ed. 1966, University of Arizona.

BARESI, LARRY (1994) ..........Assistant Professor of Biology
B.A. 1969, M.S. 1972, California State University, Northridge; Dr.P.H. 1978, University of California, Los Angeles.

BARKATI, PRASANTA (1981) .......Professor of Computer Science


BARNES, G. MICHAEL (1981) Professor of Computer Science A.B. 1972, University of California, Berkeley; M.A. 1975, California State University, Long Beach; M.S. 1980, Kansas State University; Ph.D. 1980, Kansas University.


BARR, MICHAEL (1972) Librarian, Reference and Instructional Services B.A. 1969, University of California, Los Angeles; M.L.S. 1972, University of Southern California.

BARTLE, ELIZABETH (1998) Assistant Professor of Sociology B.S.W. 1976, M.S.W. 1993, University of Nebraska; Ph.D. 1997, University of Kansas.


BASTA, SISTER RITA (1999) Lecturer in Mathematics B.A. 1965, Mundanee College of Loyola University; M.S. 1971, University of Notre Dame.


BAXTON, MARY (1965) Associate Director, International Admissions/ Special Programs, Admissions and Records B.S. 1971, M.S. 1978, California State University, Northridge.


BELING, JANNA (1998) Assistant Professor of Health Sciences B.A. 1974, University of Southern California; M.A. 1981, Stanford University; Ph.D. 1985, University of Southern California.

BELL, JANICE E. (1986) Professor of Accounting and Management Information Systems B.S. 1972, University of Tennessee; M.S. 1974, California State University, Northridge; Ph.D. 1980, University of California, Los Angeles.

BELLIN, PETER (1990) Associate Professor of Health Sciences B.A. 1975, Brandeis University; M.S. 1979, Harvard; Ph.D. 1990, University of California, Los Angeles.


BERRY, ELIZABETH B. (1973) Professor of Communication Studies B.S. 1960, Northwestern University; M.A. 1963, California State University, Los Angeles; Ph.D. 1969, University of California, Los Angeles.

BETHE, DONALD R. (1969) Professor of Kinesiology B.A. 1963, California State University, Northridge; M.S. 1964, Syracuse University; Ph.D. 1968, Ohio State University.


BLOOM, MARSHALL H. (1971) Professor of Family Environmental Sciences B.A. 1969, San Diego State University; M.A. 1971, California State University, Long Beach; Ph.D. 1982, University of Southern California; Certified in Family and Consumer Sciences.


BOCK, JAMES (1963) Professor of Mathematics B.A. 1959, California State University, Northridge; M.A. 1963, Ph.D. 1986, University of California, Los Angeles.


BODEUX, JEAN-LUC (1969) Professor of Art B.S. 1964, Iowa State University; M.A. 1966, Arizona State University; Ph.D. 1971, University of California, Los Angeles.
BOURGOIS, PAMELA J. (1987) Associate Professor of English  

BOWEN, WILLIAM (1970) Professor of Geography  
B.A. 1943, M.A. 1946, Ph.D. 1972, University of California, Berkeley.

BOWENS, SHIRLEY (1975) Immigration Specialist, International Programs  
B.S. 1966, M.S. 1967, San Francisco State University.

BOWMAN, SPERO (1982) Associate Vice President for Academic Resources and Chief Information Officer  
B.S. 1972, M.S. 1974, Brigham Young University; Ph.D. 1994, University of California, Los Angeles.

BOYD, BARBARA (1975) Assistant Professor of Psychology  
B.A. 1966, Carleton College; M.S. 1967, University of Tennessee; M.A. 1973, California State University, Northridge; Ph.D. 1983, University of Southern California.

BROYCE, JAMES H. (1979) Professor of Pan-African Studies  
B.A. 1966, Tarkio College; M.S. 1971, Howard University; Ph.D. 1980, University of Michigan.

BRAKE, JUDY (1974) Professor of Kinesiology  
B.A. 1962, M.A. 1963, University of California, Berkeley; Ph.D. 1978, University of Southern California.

BRASWELL, BOBBY (1996) Head Coach, Men’s Basketball, Intercollegiate Athletics  
B.A. 1985, California State University, Northridge.

BROWN, MARGARET J. (1972) Professor of Educational Psychology  

BROWN, WILLIAM W. (1975) Professor of Economics  
B.A. 1964, M.A. 1966, University of California, Los Angeles.

BROWNLEE, DON R. (1982) Professor of Communication Studies  
B.A. 1973, Texas Christian University; M.A. 1974, North Texas State University; Ph.D. 1982, University of Texas.

BRYAN, ROBERT E. (1992) Educational Equity Coordinator, College of Humanities  
B.S. 1983, California State University, Northridge.

BRITTON-OLIO, AUGUSTO (1969) Professor of Educational Psychology and Counseling  
B.A. 1951, Instituto Colombo Venezolano; M.A. 1969, California State University, Los Angeles; Ph.D. 1973, University of Southern California; Licensed Psychologist, State of California.

BROCKLEHURST, ROBERT L. (1999) Interim Associate Dean, College of Extended Learning  

BROWN, BETTY A. (1986) Professor of Art  
B.A. 1971, Southern Methodist University; M.A. 1973, University of Texas; Ph.D. 1977, University of New Mexico.

BROWN, MARGARET J. (1972) Director, Educational Equity, College of Health and Human Development  
B.A. 1971, California State University, Los Angeles.

BURDEK-ESPOSITO, MONICA (1973) Associate Librarian, Reference and Instructional Services  

BURGER, JOHN R. (1984) Professor of Engineering  
B.S.E.E. 1984, Clarkson College; M.S. 1966, University of California, Berkeley; Ph.D. 1978, University of California, Los Angeles.

BURSTEIN, NANCY D. (1990) Professor of Special Education  
B.A. 1968, Michigan State University; M.A. 1972, San Francisco State University; Ph.D. 1982, University of California, Los Angeles.

BURGER, JOHN R. (1984) Professor of Engineering  
B.S.E.E. 1984, Clarkson College; M.S. 1966, University of California, Berkeley; Ph.D. 1978, University of California, Los Angeles.

BUTLER, DONALD (1962) Professor of Psychology  
B.A. 1954, Xavier University; M.A. 1956, Bowling Green State University; Ph.D. 1958, Northwestern University.

CABELLO, BEVERLY (1990) Associate Professor of Educational Psychology and Counseling  

CADDEN, ANA CRISTINA (1990) Professor of Physics and Astronomy  
B.S. 1983, Stevens Institute of Technology; M.S. 1984, Ph.D. 1989, University of California, Los Angeles.

CAHN, MATTHEW A. (1991) Professor of Political Science  

CALL, DWIGHT (1962) Professor of Accounting and Management Information Systems  
B.S. 1957, M.B.A. 1959, Ph.D. 1966, University of California, Los Angeles; C.P.A.

CAMP, RICHARD (1965) Professor of History  

CAMPBELL, BONITA J. (1975) Professor of Engineering  
B.A. 1967, Colorado State University; M.S. 1973, University of Redlands; M.B.A. 1973, Pepperdine University; Ph.D. 1979, University of California, Los Angeles.

CAMPBELL, JEFFREY A. (1994) Head Coach, Intercollegiate Athletics  
B.A. 1991, California State University, Northridge.

CAMPBELL, WARREN M. (1961) Professor of Political Science  

CAMPOS, MARTHA (1995) Academic Advisor, Advising Resource Center  
B.A. 1993, California State University, Northridge.

CAREN, LINDA D. (1988) Professor of Biology  

CARETTO, BARBARA B. (1998) Director of Development, College of Science and Mathematics  

CARETTO, LAURENCE S. (1998) Dean, College of Engineering and Computer Science; Professor of Engineering  

CARPENTER, ROBERT C. (1988) Professor of Biology  
B.S. 1975, University of Michigan; M.S. 1979, University of the Pacific; Ph.D. 1984, University of Georgia.

CARROLL, EDWARD J. (1997) Dean, College of Science and Mathematics; Professor of Biology  
B.A. 1968, California State University, Sacramento; Ph.D. 1972, University of California, Davis.

CARTER, S. MELVIN JR. (1993) Lecturer in Def Studies  
B.A. 1967, Gallaudet University; M.A. 1975, California State University, Northridge.

CARY, DAVID D. (1978) Professor of Finance, Real Estate and Insurance  

CASTRO, JAMES (1990) Math Specialist, Learning Resource Center  
B.A. 1980, California State University, Northridge.

CASTRONOVO, BRIAN J. (1988) Professor of Modern and Classical Languages and Literatures  
B.A. 1971, Trinity College; M.A. 1976, Middlebury College; Ph.D. 1984, University of Wisconsin.

CAVALLARO, CLAIRE (1982) Professor of Special Education  

CERVANTES, YREINA D. (1999) Assistant Professor of Chicano/a Studies  
B.A. 1975, University of California, Santa Cruz; M.A. 1989, University of California, Los Angeles.

CHAN, KENYON (1990) Professor of Asian American Studies  
CLEVENSON, M. LAWRENCE (1975)  .................................................Professor of Mathematics  

CLOUSE, RONALD M. (1976) ..................................................Director, Budget Planning and Management, Administration and Finance  
B.A. 1971, M.A. 1973, California State University, Northridge.

COHEN, RANDY W. (1994) ..........................................................Associate Professor of Biology  
B.S. 1976, University of Southern California; M.S. 1980, California State University, Northridge; Ph.D. 1987, University of Illinois.

COLLINS, ANNA GRACE (1997) ..................................................Manager of Academic Resources, College of Science and Mathematics  
B.S. 1986, M.A. 1997, California State University, Northridge.

COOK, LYNNE H. (1980) ............................................................Professor of Accounting and Management  
B.A. 1976, M.S. 1979, Assistant Professor of Elementary Education  
Ph.D. 1987, University of Southern California.

COURT, JEFF (1968) .................................................................Associate Professor of Mathematics  
B.A. 1970, California State University, Northridge.

CRAFT, CLARA (1994) ............................................................Assistant Professor of Marketing  
B.S. 1989, University of Iowa; Ph.D. 1995, University of California, Los Angeles.

CRAIG, JEFF (1968) .................................................................Professor of Philosophy  

CUNNINGHAM, JAMES B. (1970) ..................................................Professor of Secondary Education  

CURREN, MARY T. (1990) ..........................................................Assistant Professor of Marketing  

CURZON, SUSAN C. (1985) ..........................................................Lecturer in Deaf Studies  
B.A. 1957, Temple University; M.S. 1980, Ph.D. 1985, University of California, Los Angeles.

CUSHIER, ROBERT N. (1969) ....................................................Professor of English  

CUSHMAN, KENNETH (1991) ....................................................Assistant Professor of Educational Psychology  
B.A. 1971, M.A. 1977, La Verne University.

CUTTLE, FREDERICK W. (1970) ..................................................Assistant Professor of Chemistry  
B.A. 1968, California Institute of Technology.

CUTTLE, G. JAY (1968) ..............................................................Professor of Chemistry  

CUTTLE, LAURA A. (1987) ..........................................................Manager of Academic Resources, University Library  
B.A. 1985, California State University, Northridge.

CUTTLE, MARY (1975) .............................................................Associate Professor of Chemistry  
B.A. 1968, California Institute of Technology.

CUTTLE, WALTER (1975) ..........................................................Professor of Chemistry  
B.A. 1968, California Institute of Technology.

CUTTLE, WILLIAM (1968) .........................................................Assistant Professor of Chemistry  

CUTTLE, WILSON (1970) ..........................................................Associate Professor of Chemistry  
B.A. 1968, California Institute of Technology.

CUTTLE, WILSON, A. (1970) ......................................................Professor of Chemistry  
B.A. 1968, California Institute of Technology.
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DALY, KEVIN (1960) Professor of Biology B.S. 1955, University of California, Davis; Ph.D. 1958, Cornell University.


DAWAHARE, ANTHONY (1994) Assistant Professor of English B.A. 1994, University of California, Irvine.

DAY, MARK (1995) Assistant Director, Marketing and Programs, Student Union B.M. 1982, California State University, Long Beach.

DEBOSE, HERMAN (1994) Associate Professor of Sociology B.S. 1960, North Carolina Agricultural and Technical State University; M.S.W. 1975, University of Southern California; Ph.D. 1991, University of California, Los Angeles.

DECHTER, AVI (1981) Associate Professor of Management Science B.S. 1972, Israel Institute of Technology; M.B.A. 1978, Tel Aviv University; Ph.D. 1985, University of California, Los Angeles.


DI JULIO, SHOELAH (1989) Professor of Engineering B.S. 1976, California State University, Northridge; M.S. 1979, Ph.D. 1982, University of California, Los Angeles.

DI MO, EDITH (1995) Assistant Professor of Modern and Classical Languages and Literatures B.A. 1985, California State University, Dominguez Hills; M.A. 1990, California State University, Long Beach; Ph.D. 1995, University of California, Riverside.


DOMMEREY, CURT J. (1978) Professor of Marketing B.A. 1969, University of California, Santa Barbara; M.B.A. 1971, University of Santa Clara; Ph.D. 1980, University of Cincinnati.

DONAHUE, SANDY (1995) Assistant Professor of Health Sciences B.A. 1975, M.S. 1980, California State University, Northridge; Dr. Ph.D. 1994, University of Laverne.


DOWNING, WILLIS G. (1981) Professor of Engineering B.S. 1952, California State University, Long Beach; B.S.E.E. 1957, University of California, Berkeley; M.S.E.E. 1964, California State University, San Jose; Ph.D. 1977, University of Southern California.


DUKES, FRED O. (1978) Executive Assistant to the Vice President for Administration and Finance B.A. 1975, M.A. 1977, California State University, Long Beach.


DUNN, MICHAEL F. (1968) Professor of Finance, Real Estate and Insurance B.S. 1964, M.B.A. 1966, California State University, Los Angeles.

DUNNE, GEORGE C. (1972) Professor of Geologic Sciences B.A. 1966, M.S. 1970, California State University, San Jose; Ph.D. 1972, Rice University.


EATON, ARUNDA J. (1979)  Professor of Elementary Education  B.A. 1975, University of Wisconsin; M.Ed. 1976, Ph.D. 1979, University of Texas.


ECKLUND, KRISTIN A. (1971)  Associate Professor of Secondary Education  B.A. 1970, University of California, Los Angeles; M.S. 1971, California State University, Northridge; Ph.D. 1978, University of Southern California.


EIBH, SHARON (1977)  Director, ITR Administration and Finance  B.S. 1986, California State University, Northridge.


ELDER, DAVID (1971)  Professor of Art  B.A. 1957, Wittenberg University; M.A. 1961, Ohio State University; Graduate School.


ELLOTT, HARRIET (1983)  Outreach Regional Coordinator  B.A. 1982, California State University, Chico.


EPSTEIN, MELVIN (1961)  Professor of Engineering  B.S. 1951, New York University; M.S. 1953, Massachusetts Institute of Technology; Ph.D. 1959, Polytechnic Institute of Brooklyn.


FAK, HENRIK RICHARD (1967)  Coordinator, International Programs; Professor of Theatre  B.A. 1960, Wittenberg University; Ph.D. 1970, University of Southern California.


FARZAN, FARIBA (1990)  Assistant Professor of Business Law  B.S. 1990, California State University, Northridge.

FEINBERG, ABE (1968)  Professor of Management Science  B.S. 1960, M.S. 1962, Massachusetts Institute of Technology; Ph.D. 1972, University of California, Los Angeles.

FEINBERG, VICTORIA DRIN (1970)  Professor of Family Environmental Sciences  B.A. 1967, University of Iowa; M.A. 1970, Iowa State University; M.A. 1987, Ph.D. 1993, University of California, Los Angeles; Certified Interior Designer, California.


FIDELL, LINDA (1968)  Professor of Psychology  B.A. 1964, Purdue University; M.A. 1966, Ph.D. 1968, University of Michigan.

FIEWER, MARGARET (1999)  Associate Vice President for Undergraduate Studies; Professor of Communication Studies  B.A. 1961, Clarke College; B.A. 1971, Ph.D. 1975, Northwestern University.

FILBECK, MARY (1970)  Professor of Family Environmental Sciences  B.A. 1964, California State University, Los Angeles; M.A. 1967, Loma Linda University; Ph.D. 1972, Southern Illinois University.

FINLEY, MARY (1972)  Librarian, Reference and Instructional Services  B.A. 1971, Pomona College; M.S.L.S. 1972, University of Southern California; M.A. 1976, California State University, Northridge.


FISCHER, PETER J. (1971)  Professor of Geoscientific Sciences  B.A. 1953, University of California, Berkeley; Ph.D. 1972, University of Southern California.

FISCHER, JANE (1979)  Professor of Educational Psychology and Counseling  B.A. 1967, Stanford University; M.A. 1971, San Francisco State University; Ed.D. 1981, University of California, Los Angeles.


FOSTER, LORRAINE L. (1964)  Professor of Mathematics  B.A. 1960, Occidental College; Ph.D. 1964, California Institute of Technology.


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FRITCHET, KATHLEEN H. (1966)............. Clinical Psychologist; Professor, Counseling Services B.A. 1963, University of Pennsylvania; Ph.D. 1970, University of Southern California; Licensed Psychologist; Licensed M.F.C. Counselor, California.

FULCHER, ARNA (1996).............. Associate Director, Finance and Business Services, University Student Union B.A. 1982, University of Southern California.

FULLER, TERRY (1998).......................... Assistant Professor of Mathematics B.A. 1985, University of Rochester; M.S. 1987, University of Chicago; Ph.D. 1996, University Of Texas.


FURUMOTO, WARREN (1962).................. Director, Center for Academic Preparedness, College of Science and Mathematics; Professor of Biology B.S. 1957, California Institute of Technology; Ph.D. 1960, University of California, Los Angeles.

GABEL, TERRANCE G. (1998)............. Assistant Professor of Marketing B.B.A. 1985, University of Iowa; M.S. 1990, Texas A&M University; Ph.D. 1998, University of Minnesota.

GABROVSKY, PETER N. (1989)............... Associate Professor of Computer Science M.S. 1966, Warsaw University; Ph.D. 1977, Syracuse University.

GADOMSKI, STEPHEN (1978)................ Professor of Engineering B.A. 1969, M.S. 1972, California State University, Northridge; Professional Engineer, States of California, Colorado, New Jersey, New York, Texas and Washington and the Province of British Columbia.


GARCIA, JORGE (1984).................. Dean, College of Humanities; Professor of Chicana Studies B.A. 1969, Fresno State University; Ph.D. 1986, University of California, Riverside.


GELVIN, BRUCE R. (1972).............. Professor of Anthropology B.S. 1965, Wisconsin State University; Ph.D. 1975, University of Missouri.


GEORGE, DANIEL (1996).................. Assistant Professor of Management Ph.D. 1997, University of Southern California.

GETER, LEROY (1983).................. Assistant Director for Transfer Center/Programs B.A. 1975, California State University, Northridge.


GIBSON, LARY H. (1969).................. Professor of English B.S. 1959, Clarkson College; Ph.D. 1965, University of Oregon.

GIFFORD, ADAM (1975).................. Professor of Economics B.A. 1969, San Diego State University; Ph.D. 1972, University of California, San Diego.

GILBERT, PHILIP (1974).................. Professor of Computer Science B.S. 1955, M.S. 1955, Massachusetts Institute of Technology; Ph.D. 1969, University of London.


GOHNSTAD, ROBERT (1972)............... Professor of Geography B.A. 1961, Ph.D. 1972, University of California, Berkeley.


GOLDSTEIN, TERRY (1995)............... Technical Assistant and Evaluation Manager, National Center on Deafness B.A. 1986, California State University, Northridge; M.A. 1990, University of California, Los Angeles.

GONZALEZ, ROSA M. (1998)............. Assistant Professor of Special Education B.A. 1971, Texas Technological University; M.S.Ed. 1975, University of Wisconsin; Ph.D. 1997, University of California, Riverside.


GOSS, JAMES (1969).................. Professor of Religious Studies B.A. 1960, University of Southern California; M.Th. 1963, Southern California School of Theology; Ph.D. 1970, Claremont Graduate School.

GOTTFRIED, ADELE (1978)............... Professor of Educational Psychology & Counseling B.A. 1967, Queens College; M.A. 1968, University of Chicago; Ph.D. 1975, Graduate School of the City University of New York; Licensed Psychologist, State of California.

GRANT, SHEILA R. (1994).............. Associate Professor of Psychology B.A. 1987, M.A. 1989, California State University, Northridge; Ph.D. 1996, University of California, Santa Barbara.


GREENHALGH, KIM R. (1978)............. Associate Professor of Business Law B.A. 1972, Stanford University; J.D. 1975, University of Utah.


GROSS, BARBARA L. (1996)............. Assistant Professor of Marketing B.S. 1977, Ambassador College; M.B.A. 1983, California State University, Los Angeles; Ph.D. 1992, University of Southern California.


HAKE, KATHARINE K. (1986)............. Professor of English A.B. 1974, University of California, Santa Cruz; M.A. 1980, Stanford University; Ph.D. 1985, University of Utah.


HAEUSSLER, HELMUT (1963)............... Professor of History B.A. 1948, University of Wisconsin; M.F.S. 1951, University of Maryland; Ph.D. 1953, University of Wisconsin.


HARTFORD, DAVID, JR. (1968)  Professor of Psychology  B.A. 1964, University of Wisconsin-Madison; Ph.D. 1968, University of California, Los Angeles.


HAYWARD, ROBERT (1971)  Associate Professor of Philosophy  B.A. 1964, Columbia University; M.A. 1968, University of California, Berkeley; Ph.D. 1971, University of California, Los Angeles.


HEFTER, DORIS (1996)  Senior Assistant Librarian, Technical Services  B.A. 1974, California State University, Northridge; M.S.L. 1975, Western Michigan University.


HERREDA, IRENE (1970)  Professor of English  B.A. 1963, California State University, Northridge; M.A. 1964, University of California, Los Angeles.


HERRERA, PEREZ (1970)  Professor of History  B.A. 1965, California State University, Northridge; M.A. 1967, University of California, Berkeley; Ph.D. 1974, University of Southern California.

HERRERA, ROBERT (1970)  Professor of Education  B.A. 1963, California State University, Northridge; M.A. 1965, University of California, Berkeley; Ph.D. 1968, University of California, Los Angeles.

HERRERA, VICTOR (1970)  Professor of Economics  B.A. 1962, California State University, Northridge; M.A. 1964, University of California, Berkeley; Ph.D. 1968, University of California, Los Angeles.

HERRICK, ROBERT (1970)  Professor of Mathematics  B.A. 1965, California State University, Northridge; M.A. 1967, University of California, Berkeley; Ph.D. 1974, University of Southern California.

HERRING, WILLIAM (1970)  Professor of Communication Studies  B.A. 1964, California State University, Northridge; M.A. 1966, University of California, Berkeley; Ph.D. 1968, University of California, Los Angeles.


HERZOG, ROBERT (1970)  Assistant Professor of History  B.A. 1962, California State University, Northridge; M.A. 1964, University of California, Berkeley; Ph.D. 1968, University of California, Los Angeles.
HORNE, DAVID (1997) ..............................Associate 2000-2002 FACULTY AND ADMINISTRATION 579
HORVATH, R. FRANCES (1997) ...........................
HOROWITZ, RICHARD (1999) ..........................
HOWAT, KENNETH J. (1995) ......................................................
HOWARD, ROBERT B. (1972) ..........................................
HUFF, ROBERT M. (1988) ..........................................
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HUETINCK, LINDA (1988) ...................................
HSU, I-NAN (1978) ......................................................
HYATT, RHONDA (1992) ..............................
ISHIDA, DEBORAH (1990) ..........................
IVORY, PETER (1991) .............................Assistant Professor of Communication Disorders and Sciences  B.A. 1975, University of California, Santa Barbara; M.S. 1978, University of Wisconsin; Ph.D. 1983, University of Kansas.
JEFFRIES, VINCENT (1968) .............................Professor of Sociology  B.A. 1960, M.A. 1962, California State University, Northridge; Ph.D. 1968, University of California, Los Angeles.
JEPPSON, CATHERINE (1983) .............................Lecturer in Accounting and Management Information Systems  B.S. 1971, M.S. 1975, California State University, Northridge.
JOHNSON, JUDI (1989) .............................Student Services Coordinator, Center on Disabilities  B.A. 1992, California State University, Northridge.
JOHNSON, MACK I. (1988) .............................Associate Vice President, Graduate Studies, Research and International Programs; Professor of Biology  B.S. 1961, Virginia Union University; D.V.M. 1966, Tuskegee University; Ph.D. 1972, Washington State University.
JOHNSON, ROBERT S. (1969) .............................Professor of Psychology  B.A. 1967, California State University, Northridge.

KEMMERLING, ROBERT G. (1989)  Director, Counseling and Testing
B.S. 1961, University of Wisconsin; S.T.M. 1968, Andover Newton Theological School; Ph.D. 1972, University of Iowa; Licensed Psychologist, California.

KENDY, LOUANN (1993)  Prevote and Vice President for Academic Affairs; Professor of Health Sciences; Professor of Sociology B.A. 1969, M.A. 1973, Ph.D. 1978, New York University.

KESSNER, DANIEL A. (1970)  Professor of Music

KIANI-ASLANI, RAJABALI (1978)  Professor of Accounting and Management Information Systems
B.A. 1965, M.A. 1966, College of Accountancy, Iran; M.S. 1969, University of California, Los Angeles; Ph.D. 1975, University of Oklahoma.

KIDDOR, ROBERT J. (1970)  Assistant Vice President for Financial Affairs, Controller and Director of Financial and Accounting Services, Administration and Finance; Professor of Accounting and Management Information Systems
B.S. 1960, University of California, Los Angeles; M.S. 1969, California State University, Northridge; M.B.A. 1972, D.B.A. 1978, University of Southern California; C.M.A.

KIM, AH-JEONG (1994)  Associate Professor of Theatre
B.A. 1985, Dong-Duk Women’s University, Seoul; M.A. 1989, Ph.D. 1995, University of Illinois.

KIM, JAMIE J. (1992)  Associate Professor of Computer Science

KIM, MARY S. (1999)  Assistant Professor of Music

KIMBALL, WILLIAM L. (1981)  Professor of Accounting and Management Information System

KINDEL, ALBERT J. (1977)  Professor of Management Science
B.S. 1967, Stanford; Ph.D. 1972, University of Minnesota.

KIOUSIS, NICHOLAS G. (1987)  Professor of Physics and Astronomy
B.S. 1973, National University of Athens; M.S. 1975, Ph.D. 1984, University of Illinois.

KIRCHNER, DON (1963)  Professor of Marketing
B.A. 1953, Michigan State University; M.B.A. 1959, University of Detroit; Ph.D. 1969, University of California, Los Angeles.

KIRKTON, R. KENT (1983)  Professor of Journalism
B.S. 1972, M.S. 1975, Southern Illinois University; Ph.D. 1988, University of Iowa.

KLASKY, SANDRA (1972)  Director of Development, College of Education
Ph.D. 1990, Claremont Graduate School.

KLASSEN, KENNETH (1998)  Professor of Management Science

KLEIN, DAVID M. (1988)  Professor of Mathematics

KLEIN, SHARON M. (1986)  Associate Professor of English

KLEINMAN, SCOTT (1999)  Assistant Professor of English

KLUGMAN, PHILIP S. (1991)  Associate Professor of Elementary Education
B.A. 1961, Temple University; B.A. 1970, California State University, Northridge; M.A. 1975, Pepperdine University; Ph.D. 1983, Claremont Graduate School.

KLINE, MICHAEL V. (1976)  Professor of Health Sciences
B.A. 1962, University of Miami; M.P.H. 1965, University of California, Berkeley; Dr. P.H. 1973, University of California, Los Angeles.

KLIENDIST, PAUL E. (1960)  Professor of Chemistry
B.S. 1955, Lehigh University; Ph.D. 1959, University of California, Los Angeles.

KLOMPE, TAMARA J. (1971)  Clinical Psychologist, Counseling Services
B.A. 1963, University of California, Santa Barbara; M.A. 1967, Ph.D. 1972, University of California, Los Angeles; Licensed Psychologist, California.

KNITTER, GERARD L. (1996)  Professor of Music

KOESTER, JOLENE (2000)  President; Professor of Communication Studies
B.A. 1971, University of Minnesota; M.A. 1972, University of Wisconsin; Ph.D. 1980, University of Minnesota.

KOISTINEN, PAUL (1963)  Professor of History

KONTOGIANNIS, JOHN E. (1965)  Professor of Biology
B.S. 1958, M.S. 1959, Illinois State University; Ph.D. 1965, University of Illinois.

KOPROWSKI, CAROL M. (1999)  Assistant Professor of Family Environmental Sciences
B.A. 1977, M.S. 1979, M.S. 1988, California State University, Northridge.

KRAMER, TEMMA (1982)  Professor of Radio-TV-Film

KRANKE, RONALD E. (1970)  Professor of Sociology
B.A. 1956, Hendelberg College; M.A. 1964, Harvard University; Ph.D. 1969, University of California, Los Angeles.

KRAZ, JACOB (1979)  Librarian, Reference and Instructional Services

KRALSKY, ALEXIS R. (1987)  Professor of Radio-TV-Film
B.A. 1971, Yale University; M.F.A. 1984, California Institute of the Arts.

KRETSCHEMER, DAVID (1996)  Assistant Professor of Elementary Education
B.S. 1980, Oregon State University; M.Ed. 1987, Ph.D. 1995, University of California, Los Angeles.

KROLL, BARBARA (1988)  Professor of English
B.A. 1965, Brooklyn College; M.A. 1966, University of Pennsylvania; Ph.D. 1982, University of Southern California.

KUMAR, ARUNVATI (1991)  Associate Professor of Management Science

KUPFER, WILLIAM M. (1991)  Environmental Compliance Manager, Public Safety
B.A. 1976, University of California, Santa Barbara; M.A. 1980, University of California, Los Angeles; M.S. 1990, California State University, Northridge.

KURETSKY, FREDERICK L. (1975)  Professor of Radio-TV-Film

LAI, JULIE E. (1985)  Professor of Geography

LAKIN-CLAPP, BRENDA D. (1973)  Professor of Elementary Education
B.A. 1962, California State University, Los Angeles; Ed.D. 1972, University of California, Los Angeles.

LAM-EASTON, LINDA L. (1987)  Professor of Religious Studies

LAMMERS, HAROLD B. (1977)  Professor of Marketing

LANE, ARTHUR (1968)  Professor of English
B.A. 1959, Royal Military College of Canada; M.A. 1962, University of Montreal; Ph.D. 1967, University of California, San Diego.

LANG, SHIRLEY (1981)  Associate Director of Center for Research & Services, College of Engineering and Computer Science
B.A. 1978, California State University, Northridge.

LARSON, GALE K. (1967)  Professor of English
B.A. 1960, Carroll College; A.M. 1963, Creighton University; Ph.D. 1968, University of Nebraska.

LASKY, BETH A. (1987)  Associate Professor of Special Education
B.A. 1973, M.A. 1977, California State University, Northridge; Ph.D. 1986, University of Arizona.

LAURIE, JOSEPH J. (1965)  Professor of Finance, Real Estate and Insurance
B.A. 1959, Northeastern University; M.A. 1963, University of Nevada; Ph.D. 1968, University of California, Los Angeles.

LAW, GEORGE T. (1988)  Associate Professor of Engineering
B.S.E.E. 1981, Georgia Institute of Technology; M.S.E.E. Florida Institute of Technology; Ph.D. 1987, University of Alabama.

LAZAROVA, PAUL (1997)  Assistant Professor of Accounting and Manager Information Systems

LEACH, JOEY T. (1969)  Professor of Music

LEE, HOWARD B. (1990) ................................................. Professor of Psychology B.A. 1971, University of California, Los Angeles; M.A. 1972, California State University, Northridge; Ph.D. 1979, University of California, Los Angeles.


LEE, SHAO-JU (1970) .................................................. Professor of Management Science B.A. 1963, National Taiwan University; M.S. 1968, Ph.D. 1975, University of California, Los Angeles.


LEWIS, LOUISE M. (1973) ................................................ Professor of Art A.B. 1963, University of California, Berkeley; M.A. 1966, M.A. 1972, University of New Mexico.


LICHTENBERG, JULIE (1985) .......................................... Director of Development & Alumni Relations, College of Business Administration and Economics B.M. 1975, Michigan State University; M.A. 1979, University of California, Los Angeles.


LIM, SAY-PENG (1994) .............................................. Associate Professor of Physics and Astronomy B.A. 1962, Swarthmore College; Ph.D. 1988, University of Wisconsin.

LIN, CH-TSEN (1987) .................................................... Professor of Engineering B.S.M.E. 1972, Tatung Institute of Taipei; M.S.M.E. 1977, Clarkson College of Technology; Ph.D. 1983, University of California, Davis.

LIN, GONG-YUH (1972) ................................................. Professor of Geography B.A. 1963, National Taiwan University; M.A. 1968, University of Georgia; Ph.D. 1974, University of Hawaii.

LINDEN, JOYCE (1975) ............................................... Associate Professor of Special Education B.A. 1960, California State University, Northridge; M.A. 1964, California State University, Los Angeles.


LITKE, REBECCA (1990) ........................................... Associate Professor of Communication Studies B.A. 1985, M.A. 1987, California State University, Northridge; Ph.D. 1990, University of Southern California.

LITTWIN, LAWRENCE (1968) ........................................ Professor of Political Science B.A. 1956, Brooklyn College; Ph.D. 1967, New York University.

LIU, DAVID (1998) ..................................................... Professor of Accounting and Management Information Systems B.S. 1979, University of California, Los Angeles; M.B.A. 1982, Pepperdine University; Ph.D. 1987, University of California, Los Angeles.

LLANES, LINDA (1989) .................................................. Manager, Help Desk


LOBB, MILLIE (1994) .................................................. Director, Corporate and Foundation Relations B.A. 1963, University of California, Los Angeles.

LOGAN, CHRISTIE A. (1979) ........................................... Professor of Communication Studies B.A. 1971, University of North Dakota; M.A. 1973, Purdue University; Ph.D. 1977, University of Southern California.

LONG, LAUREL (1987) .................................................. Associate Professor of Political Science B.A. 1971, University of California, Los Angeles; M.A. 1975, California State University, Northridge.


LORITZ, JAN (1983) ................................... Assistant Director, Administration, Student Health Center B.S. 1987, University of LaVerne.


LOY, STEVEN F. (1987) .................................................. Professor of Kinesiology B.A. 1978, M.A. 1979, California State University, Northridge; Ph.D. 1985, Brigham Young University.


LUNDBLAD, HEIDIMARIE (1982) ....................................... Associate Professor of Psychology B.S.M.E. 1972, Tatung Institute of Taipei; M.S.M.E. 1977, Clarkson College of Technology; Ph.D. 1983, University of California, Davis.


LIPPERT, WALTER (1987) .............................................. Associate Professor of Mechanical Engineering B.A. 1982, Swarthmore College; Ph.D. 1988, University of Wisconsin.

LITKE, REBECCA (1990) ........................................... Associate Professor of Communication Studies B.A. 1985, M.A. 1987, California State University, Northridge; Ph.D. 1990, University of Southern California.

LITWIN, LAWRENCE (1968) ........................................ Professor of Political Science B.A. 1956, Brooklyn College; Ph.D. 1967, New York University.

LU, DAVID (1998) ..................................................... Professor of Accounting and Management Information Systems B.S. 1979, University of California, Los Angeles; M.B.A. 1982, Pepperdine University; Ph.D. 1987, University of California, Los Angeles.


MANZANO, FLORENTINO (1985) ..................................Director, Student Resource Center/EOB, College of Arts, Media, and Communication B.A. 1985, M.A. 1990, California State University, Northridge.


MARKS, RICHARD E. (1992) ..................................Assistant Professor of Journalism B.A. 1965, University of Southern California; M.A. 1997, California State University, Northridge.


MARTI, JUDITH (1991) ..................................Associate Professor of Anthropology B.A. 1976, City College of New York; Ph.D. 1990, University of California, Los Angeles.

MARTIN, ALLEN (1997) ..................................Assistant Professor of Family Environmental Sciences B.S. 1985, M.S. 1988, Virginia Polytechnic Institute; Ph.D. 1993, Ohio State University.

MASON, JOHN B. (1997) ..................................Associate Vice President, Faculty Affairs; Professor of English B.A. 1968, University of Northern Colorado; M.A. 1969, Ph.D. 1976, University of Oregon.

MATOS, JENNIFER A. (1994) ..................................Assistant Professor of Biology B.S. 1976, M.S. 1979, Texas Technological University; Ph.D. 1992, Washington University.


MCArTHUR, MARY A. (1973) ..................................Supervisor, Photography, Creative Media Services, Office of Academic Technologies, Information and Technology Resources B.A. 1974, California State University, Northridge.

MCCARRON, THOMAS J. (1999) ..........................Executive Director, University Corporation M.S. 1977, California State University, Northridge; M.B.A. 1983, Pepperdine University.


MCGURE, GIGI (1985) ..................................Outreach Regional Coordinator B.A. 1984, California State University, Northridge.

MCINTIRE, ELLIOT (1968) ..................................Professor of Geography B.A. 1963, University of California, Riverside; M.A. 1965, John Hopkins University; Ph.D. 1968, University of Oregon.


Mclaine, Alice J. (1991) ..................................Assistant Professor of Kinesiology B.S. 1980, Ohio University; M.S. 1981, West Virginia University; Ph.D. 1997, Iowa State University.


McMillin, Thomas H. (1965) ..................................Professor of Art B.A. 1959, California State University, Northridge; M.F.A. 1960, University of Southern California.


METZNER, STAN (1997) ..................................Assistant Professor of Biology B.A. 1980, Reed College; Ph.D. 1989, University of Wisconsin.

Metzger, Christa (1997) ..................................Associate Professor of Educational Leadership & Policy Studies B.S. 1960, Florida Southern College; M.Ed. 1965, University of Florida; Ph.D. 1975, Arizona State University.


Miller, Jeff (1994) ..................................Associate Director for University Conference Services, Residential Life and University Conference Services.


Miller, Richard S. (1973) ..................................Counseling Psychologist, Counseling Services B.A. 1967, California Polytechnic State University, San Luis Obispo; M.A. 1969, California State University, Northridge; Ph.D. 1972, University of Southern California; Licensed Psychologist; Licensed M.F.C. Counselor, California.


MURRAY, PATRICIA Y. (1990)  Professor of English  B.A. 1952, University of New Mexico; M.A. 1962, California State University, Northridge; Ph.D. 1980, University of Southern California.


NEEDLES, R. MARK (1975)  Associate Professor of Business Communication  B.B.A. 1964, Iowa University; M.Ed. 1971, Tulane University; Ph.D. 1975, University of North Dakota.

NELSON, ESTHER W. (1986)  Associate Professor of Modern and Classical Languages and Literatures  B.A. 1966, M.A. 1968, University of New Mexico; Ph.D. 1974, University of Texas.


NICS, GREG (1986)  Director, Technology Equipment Services


NOREEN, ROBERT G. (1968) ..............................................................

NORONHA, MARIA H. (1990) ..................................................

NORTON, RONALD S. (1993) .............................................

OBINNA, ELEAZU S. (1971) ..............................................................

OH, TAEBOEM (1995) ..........................................................

OKAZAKI, CAROLYN (1990) ..........................................................

OLSON, JENNIFER (1997) ....................................................

ORZADO, ANGELINA (1978) ..................................................

PELLAROLO, SILVIA (1999) ..........................................................

M. A. 1975, Smith College; M.A. 1978, University of Minnesota, University of California, Los Angeles.

M. S. 1979, Ph.D. 1981, University of Southern California.

B.A. 1960, California State University, Northridge; B.Ed. 1961, University of Minnesota, University of California, Los Angeles.

B.A. 1974, University of Cincinnati.

B.A. 1966, Graceland College.

B.A. 1970, California State University, Los Angeles; M.S. 1972, University of Southern California; M.A. 1984, Ph.D. 1990, university of California, Los Angeles.

B.S. 1979, California State University, Northridge; M.S. 1981, M.F.A. 1984, Texas Technical University.


1978, University of Cincinnati.


B.A. 1962, M.A. 1964, University of Kansas; Ph.D. 1971, University of Southern California.

B.A. 1977, Ph.D. 1982, University of Southern California.

B.A. 1970, California State University, Los Angeles; M.S. 1972, University of Southern California;


1978, University of Southern California.

1978, University of Cincinnati.

B.A. 1974, Technical University, Warsaw; M.S. 1976, Warsaw University; Ph.D. 1983, University of California, Los Angeles.


B.A. 1977, Ph.D. 1982, University of Southern California.

B.A. 1966, Graceland College.

Lecturer in Art

Professor of Family Environmental Sciences

Professor of Philosophy

Director, Technology, College of Extended Learning (TCT)

Professor of Chicanos/Latinos Studies

Associate Professor of Secondary Education

Associate Dean, College of Science & Mathematics; Professor of Physics and Astronomy

Associate Professor of Social Work

Director, National Center on Deafness

Associate Professor of Elementary Education

Assistant Professor of English

Associate Professor of Geology

Associate Professor of Modern and Classical Languages and Literatures

Professor of Computer Science

Professor of Mathematics

Professor of Child Development

Professor of Radio-TV-Film

Professor of Elementary Education

Assistant Vice President for Operations and Personnel, and Acting Director, Student Health Center

Professor of Sociology

PRESCOTT, GERALD (1968)  Professor of History  B.S. 1959, M.A. 1962, University of Minnesota; Ph.D. 1968, University of Wisconsin.

PRESENT, PHILIP (1968)  Professor of Political Science  B.A. 1960, Principia College; M.A. 1962, University of California, Los Angeles; Ph.D. 1966, University of Southern California.


RAIMONDI, ALDEN (1999)  Professor of Art  B.S. 1985, University of Southern California; M.A. 1979, California State University, Northridge.

REIMOND, ALDEN (1999)  Executive Assistant to the Provost and Vice President for Academic Affairs; Professor of English  B.A. 1974, University of New Orleans; M.A. 1975, Ph.D. 1980, Purdue University.

REINSTEIN, TION W. (1967)  Professor of Accounting and Management Information Systems  B.S. 1959, J.D. 1962, University of California, Los Angeles; C.P.A.


RHINE, ARLENE (1990)  Director, Associated Students Children’s Center  B.A. 1959, Holy Names College; M.A. 1979, California State University, Northridge.

RICH, HARVEY E. (1972)  Professor of Sociology  B.S. 1965, Alfred University; M.S. 1968, Ph.D. 1972, Purdue University.


RIO, GILBERT U. (1971)  Professor of Art  B.S. 1959, University of Southern California; M.A. 1979, California State University, Long Beach.


ROBERTS, WILLIAM W. (1973)  Associate Dean, College of Business Administration and Economics; Professor of Economics  B.A. 1969, Macalister College; Ph.D. 1974, University of California, San Diego.


RODRIGUEZ, DAVID (1991)  Associate Professor of Chicana Studies  B.A. 1973, California State University, Northridge; Ph.D. 1996, University of California, Riverside.


ROLLER, MARGARET L. (1998)  Assistant Professor of Health Sciences  B.S. 1982, University of California, Los Angeles; B.S. 1989, California State University, Northridge; M.S. 1998, University of the Pacific.


ROSSY, GERARD L. (1977)  ......................................................  Professor of Management  
B.S. 1967, Utica College; M.B.A. 1971, Ph.D. 1979, University of California, Los Angeles.

ROSTHAIN-FISCH, CARRIE (1997)  ......................................................  Assistant Professor of Educational Psychology and Counseling  

ROY, RAM M. (1967)  ......................................................  Professor of Political Science  
B.A. 1953, M.A. 1955, Osmania University; Ph.D. 1969, Claremont Graduate School.

RUBALCABA, LUIS A. (1980)  ......................................................  Associate Professor of Educational Psychology and Counseling  
B.A. 1969, California State University, Los Angeles; Ph.D. 1980, University of Michigan.

RUBENSTEIN, ILINE (1993)  ......................................................  Writing Programs Coordinator, Learning Resource Center  
B.A. 1981, M.A. 1984, California State University, Northridge.

RUBIN, MAUREEN S. (1984)  ......................................................  Professor of Journalism  

RUBINO, LOUIS G. (1999)  ......................................................  Professor of Health Sciences  
B.S. 1976, University of Southern California; M.S./F.C.M. 1979, California State University, Los Angeles; M.P.A. 1985, Ph.D. 1990, University of Southern California.

RUDIGER, DELIA (1970)  ......................................................  Chief of Staff to the President  

RUGGIERO, RICHARD M. (1981)  ......................................................  Professor, Center for Learning Technology, Information, and Technology Resources  
B.S. 1975, State University of New York; M.A. 1976, California University, Long Beach; Ed.D. 1986, University of California, Los Angeles.

RUIZ, EVERTO (1970)  ......................................................  Professor of Chicana Studies  
B.A. 1971, California State University, Northridge.

RUIZ, RAUL (1970)  ......................................................  Professor of Chicana Studies  

RUSCHE, PHILIP J. (1999)  ......................................................  Professor of Economics  
B.A. 1965, California State University, Northridge; Ph.D. 1968, University of Southern California.

RUSCHMAN, PAUL M. (1989)  ......................................................  Professor of Biology  
B.S. 1981, University of California, Riverside; M.S. 1985, Ph.D. 1990, Virginia Polytechnic Institute and State University.

SAETING, KELLY L. (1999)  ......................................................  Lecturer in Music  
B.A. 1974, Western University; M.L.I.S. 1996, University of California, Los Angeles.

RYAN, L. DIANE (1994)  ......................................................  Director of Financial Aid  
B.A. 1973, M.A. 1976, California Polytechnic State University, San Luis Obispo; Ph.D. 1993, University of California, Los Angeles.

RYAN, ROBERT G. (1994)  ......................................................  Lecturer in Engineering  
B.S. 1978, M.S. 1985, California State University, Northridge; Ph.D. 1994, University of California, Los Angeles.

RYMSZA, LEONARD J. (1976)  ......................................................  Professor of Business Law  
Pharm.D. 1968, University of Southern California; School of Pharmacy; J.D. 1972, Loyola University of Los Angeles; School of Law.

SADAFI, SIMA (1989)  ......................................................  Academic Advisor, Advising Resource Center/ Educational Opportunity Program  
B.A. 1984, M.A. 1988, California State University, Northridge.

SAETERMOE, CARRIE (1991)  ......................................................  Professor of Psychology  
B.S. 1981, Michigan State University; M.A. 1983, California State University, Long Beach; Ph.D. 1988, University of California, Riverside.

SAFT, LESTER F. (1971)  ......................................................  Professor of Economics  

SAITO, RON (1996)  ......................................................  Assistant Professor of Art  
B.A. 1982, University of California, Los Angeles; M.F.A. 1984, University of California, Irvine.

SAKATA, MARK (1996)  ......................................................  Accessible Technology Specialist, Center on Disabilities  

SALOMON, DAVID (1981)  ......................................................  Professor of Computer Science  

SAMPSON, EDWARD E. (1986)  ......................................................  Professor of Psychology  
B.A. 1956, University of California, Los Angeles; Ph.D. 1960, University of Michigan.

SANCHEZ, MARTA (1982)  ......................................................  Professor of Chicana Studies  

SANDERSON, GARY R. (1979)  ......................................................  Coordinator, Outreach Programs, Outreach Services, National Center on Deafness  
B.A. 1977, California State University, Northridge.

SANDS, TOVAH (1999)  ......................................................  Assistant Professor of Educational Psychology and Counseling  

SANGAEJ, MOHAMMAD A. (1979)  ......................................................  Professor of Accounting and Management Information Systems  
B.S. 1964, University of Tehran; M.B.A. 1970, Sacramento State College; Ph.D. 1975, University of Oklahoma; C.P.A., State of Texas; C.M.A.

SANKARAN, SIVA (1986)  ......................................................  Professor of Accounting & Management Information Systems  

SATO, KYOKO S. (1986)  ......................................................  Professor of Secondary Education  
B.A. 1961, University of California, Los Angeles; M.A. 1970, California State University, Northridge; Ph.D. 1976, Claremont Graduate School.

SATYANARAYANA, UPADHYAYULA V. (1971)  ......................................................  Professor of Mathematics  
B.A. 1954, M.A. 1955, Andhra University, India; Ph.D. 1971, University of California, Santa Barbara.

SAUNDERS, KURT M. (1998)  ......................................................  Assistant Professor of Business Law  

SAY, ELIZABETH A. (1989)  ......................................................  Professor of Women's Studies  
B.A. 1981, California State University, Northridge; Ph.D. 1988, University of Southern California.

SCHAEFFER, JAMES C. (1981)  ......................................................  Professor of Chemistry  
B.A. 1965, College of Wooster; Ph.D. 1971, University of California, Santa Barbara.

SCHEELE, ADELE (1995)  ......................................................  Director, The Career Center  
B.S. 1960, University of Pennsylvania; M.A. 1968, California State University, Northridge; Ph.D. 1976, University of California, Los Angeles.

SCHILLING, JOHN E. (1982)  ......................................................  Associate Professor of Health Sciences  

SCHLIF, MARY A. (1999)  ......................................................  Lecturer in Music  
B.M. 1964, University of Iowa; M.A. 1965, University of Vermont.

SCHMIDT-LEVY, JUDITH (1989)  ......................................................  Counseling Psychologist, Counseling Services  
B.A. 1977, Case Western Reserve University; M.S. 1983, Ph.D. 1988, University of Utah; Licensed Psychologist, California.

SCHNEIDER, LAWRENCE (1971)  ......................................................  Professor of Journalism  
B.A. 1956, Brooklyn College; M.S. 1957, University of California, Los Angeles; Ph.D. 1967, University of Iowa.

SCHNEIDERMAN, ELLEN (1985)  ......................................................  Professor of Special Education  
B.A. 1976, M.A. 1977, Ohio State University; Ph.D. 1987, University of California, Los Angeles.

SCHREIFELS, R BARRY. (1993)  ......................................................  Professor of Mathematics  

SCHWARTZ, DAVID (1969)  ......................................................  Professor of Engineering  
B.S. 1965, M.S. 1966, University of California, Berkeley; Ph.D. 1969, University of Cambridge.

SCHWARTZ, DIANE L. (1979)  ......................................................  Professor of Computer Science  
B.A. 1966, University of California, Berkeley; M.A. 1971, Ph.D. 1975, University of California, Los Angeles.

SCHWARTZ, SIDNEY H. (1979)  ......................................................  Professor of Engineering  
B.S./M.E. 1956, Carnegie Institute of Technology; M.S./M.E. 1960, Ph.D. 1966, University of Southern California.

SCOTT, JOHN H. (1984)  ......................................................  Associate Professor of Pan-African Studies  

SCOTT, O. TACHEINI (1989)  ......................................................  Professor of Biology  
SEACREST, RON ..........................................Chief of Police, Public Safety
B.A. 1975, University of South Florida; M.S. 1992, Valdosta State College.

SEARS, SUE (1990) .................................Associate Professor of Special Education
B.A. 1971, Purdue University; M.S. 1976, University of Southern California;
Ph.D. 1989, University of California, Los Angeles.

SEFTON, JAMES E. (1965) ..........................Professor of History

SEIVER, OWEN H. (1982) .........................Associate Professor of Health Sciences
B.S. 1972, M.S. 1974, California State University, Northridge; D.P.A. 1991,
University of LaVerne.

SEJA DE MANZANO, LUDIM T. (1982) .......Director, Student Outreach and
Recruitment Services  B.A. 1981, M.A. 1990, California State University,
Northridge.

SELLERS, ELIZABETH A. (1999) .................Assistant Professor of Music
B.M. 1971, St. Olaf College; M.M. 1987, Northwestern University.

SELLERS, JEROME S. (1977) ..........................Professor of Health Sciences
B.A. 1964, University of Minnesota; M.A. 1967, Southern Illinois University;
Ph.D. 1974, University of Southern California.

SELLERS, RICKY A. (1999) .........................Assistant Professor of Music
B.A. 1981, M.A. 1990, California State University, Northridge.

SERRANO, ANA (1997) .................................Assistant Professor of Elementary Education
B.A. 1979, M.S. 1990, University of Southern California; Ph.D. 1996,
University of California, Los Angeles.

SETHURAMAN, B. AL (1991) .......................Professor of Mathematics
University of California, San Diego.

SHAFRANSKI, PAULETTE E. (1963) ...............Professor of Kinesiology

SHVECK, MARY E. (1978) ............................Interim Associate Dean, College of Health
and Human Development; Professor of Music
B.A. 1958, St. Olaf College;
M.A. 1966, West Virginia University; Ph.D. 1988, University of California,
Los Angeles.

SHANNON, THOMAS J. (1973) ......................Professor of Business Law
A.B. 1963, University of Michigan-Flint College; J.D. 1967, University of
Michigan.

SHAPIRO, BRUCE L. (1990) .........................Clinical Psychologist, Counseling Services
B.A. 1971, Lehman College; M.A. 1984, Pepperdine University; Ph.D. 1989,
United States International University; Licensed Psychologist, California.

SHARP, RICHARD M. (1968) .........................Professor of Elementary Education
University.

SHARP, VICKI (1970) .................................Professor of Elementary Education
A.B. 1963, Washington University, St. Louis; M.Ed. 1967, Ph.D. 1969, St. Louis
University of Missouri.

SHAW, EZEL K. (1968) .................................Professor of History
B.S. 1957, American College; for Girls, Istanbul; B.A. 1959, Vassar College;

SHAW, JERRY I. (1969) .................................Professor of Psychology

SHAW, VICTOR (1997) .................................Assistant Professor of Sociology
B.S. 1983, M.A. 1986, Wuhan University; M.A. 1993, Ph.D. 1994, University of
Hawaii.

SHEEGER, PHILLIP (1965) .........................Professor of Biology

B.S. 1988, Southern Utah State College; M.A. 1991, Eastern New
Mexico University.

SHEPHERD-LOOK, DEE L. (1970) ....................Professor of Psychology
B.A. 1965, Immaculate Heart College; Ph.D. 1972, University of California,
Los Angeles.

SHERMAN, JANET P. (1994) .........................Head Coach, Intercollegiate Athletics
B.A. 1982, University of California, Los Angeles; M.A. 1993, California State
University, Northridge.

SHIVELY, JON (1977) .................................Professor of Engineering
B.S. 1956, Lehigh University; M.S. 1963, John Carroll University; Ph.D. 1967,
Case Institute; Professional Engineer, State of California.

SHUBIN, CAROL S. (1992) ..........................Associate Professor of Mathematics

SICA, JEFFREY F. (1973) ............................Professor of Philosophy
B.A. 1962, Oberlin College; Ph.D. 1966, Oxford University.

SIDANSKY, ROBERT (1980) .........................Administrator of Student Services,
National Center on Deafness  B.A. 1977, Rochester Institute of Technology;
M.A. 1980, California State University, Northridge.

SIEVERS, EDWIN R. (1968) .........................Associate Professor of Art
B.A. 1954, Grinnell College; M.F.A. 1968, Rhode Island School of Design.

SILVA, RICARDO (1962) ...............................Professor of Chemistry
B.S. 1953, University of Sydney; Ph.D. 1961, University of California,
Los Angeles.

SIMLA, GERRY W. (1978) .........................Professor of Geological Sciences
B.A. 1971, Rice University; M.A. 1972, Ph.D. 1980, University of California,
Berkeley.

SIMON, MERRIL A. (1999) ............................Assistant Professor of Educational Sciences
B.A. 1976, M.A. 1978, University of Southern California;
M.A. 1986, California State University, Dominguez Hills; Ph.D. 1998,
University of Southern California.

SIMPLE, BETH (1999) .................................Assistant Professor of Health Science
M.P.T. 1995, University of California, San Francisco.

SIMS, ANTONIA L. (1982) .........................Professor of Educational Leadership and Policy Studies
B.A. 1960, M.A. 1974, California State University, Long Beach;

SKOLNICK, PAUL (1968) .............................Professor of Psychology
B.S. 1965, University of Wisconsin; M.S. 1967, Ph.D. 1969, Purdue University.

SLECHTA, ANITA M. (1981) .........................Professor of Health Sciences
B.S. 1980, M.S. 1986, California State University, Northridge; American
Registry Radiologic Technologist (Radiography) 1970; California Radiology
Technology 1972.

SLETTEN, ERICK G. (1991) .........................Staff Physician, Student Health Center

SLOAN, JON R. (1983) .................................Associate Professor of Educational Sciences
B.A. 1978, California State University, Northridge; Ph.D. 1981, University of
California, Davis.

SOLANO, CHRISTINE H. (1967) .....................Professor of Family Environmental Sciences
B.S. 1964, California State University, Northridge; M.S. 1969, University of
California, Los Angeles; Ph.D. 1979, University of Southern California;
Registered Dietitian, American Dietetic Association.

SMITH, OWEN W. (1971) .............................Professor of Theatre
B.A. 1965, M.A. 1968, California State University, Northridge.

SMITH, PAUL A. (1995) .........................Assistant Professor of Music
B.M. 1981, Chapman University; M.M. 1995, University of Southern California.

SMITH, PETER D. (1980) .............................Professor of Computer Science

SMITH, RICHARD W. (1965) .........................Professor of Psychology
B.A. 1955, Reggs College; M.A. 1962, Ph.D. 1965, University of Colorado;
Certified Sex Educator, AASECT.

SMITH, ROBERT L. (1966) .........................Professor of Art

SMITH, SHELLIE (1992) ..............................Assistant Director, Student Development
B.S. 1990, California State University, Northridge.

SNEDEN, LAWRENCE (1968) .......................Professor of Sociology

SNOI1SS, SYLVIA (1968) ..............................Professor of Political Science
B.A. 1960, City College of New York; M.A. 1962, Ph.D. 1968, University of
Chicago.

SNYDER, WENDY (1992) .............................Assistant Professor of Modern and Classical
Languages and Literature  B.A. 1975, University of Oregon; M.A. 1981,
Ph.D. 1987, Cornell University.

SOBOEDO, JAMES (1997) ..............................Assistant Professor of Asian American Studies
B.A. 1985, University of Washington; M.A. 1988, Bowling Green State
University.

SOLOMON, JAMES F. (1991) .........................Professor of English

SORELLS, KATHRYN (1999) .........................Assistant Professor of Communication Studies
B.A. 1978, Carleton College; M.A. 1992, Antioch University; Ph.D. 1999,
University of New Mexico.

SOULE, MALCOLM (1965) ..................Professor of Mathematics B.S. 1955, M.S. 1957, Oklahoma State University; M.S. 1959, University of Chicago; Ph.D. 1978, University of California, Los Angeles.

SPAGNA, MICHAEL E. (1991) .................Associate Professor of Special Education B.S. 1984, Northwestern University; M.A. 1985, University of California, Los Angeles; Ph.D. 1991, University of California, Berkeley/San Francisco State University.

SPARLING, MARY LEE (1966) .................Professor of Biology B.S. 1955, University of Miami; M.A. 1958, Duke University; Ph.D. 1962, University of California, Los Angeles.


SPIELMANN, EDGA (1969) .................Professor of Modern and Classical Languages and Literatures B.A. 1964, University of California, Santa Barbara; M.A. 1966, Ph.D. 1971, University of California, Los Angeles.

SPUNT, LEONARD (1965) ..................Professor of Engineering B.S. 1964, University of California, Los Angeles; M.S. 1966, University of Southern California.


STANLEY, SANDRA (1991) .................Associate Professor of English B.A. 1976, Point Loma College; M.A. 1979, Ph.D. 1988, University of Southern California.


STEADMAN, MICHAEL (1977) .................Executive Director, College of Extended Learning, Academic Support and Fiscal Management B.A. 1972, M.A. 1974, California State University, Northridge.


STERLE, DAVID E. (1963) ..................Professor of Leisure Studies and Recreation B.S. 1953, University of Santa Clara; M.S. 1961, California State University, San Francisco; Re:Dir. 1961, Dr:Rec. 1963, Indiana University.


STERBERG, ROBERT A. (1977) .................Professor of Business Law B.S. 1971, California State University, Northridge; J.D. 1974, Southwestern University.


STOCKER, GEOFF (1988) .................Director of Intramurals, Associated Students B.S. 1982, San Jose State University; B.S. 1987, M.A. 1988, California State University, Northridge.

STONE, RONALD S. (1986) .................Professor of Accounting and Management Information Systems B.A. 1971, University of Wisconsin; M.B.A. 1972, Rutgers University; Ph.D. 1983, University of California, Los Angeles; C.P.A.

STONEHAG, ROBERT (1979) .................Associate Director, Learning Resource Center B.A. 1974, M.S. 1978, California State University, Northridge.

STONES, LINDA M. (1972) ..................Professor of Music B.A. 1961, California State University, San Jose; M.A. 1971, California State University, Northridge; D.M.A. 1985, University of Illinois.

STOUT, GARY R. (1985) .................Professor of Accounting & Management Information Systems B.S. 1971, M.S. 1974, California State University, Northridge; D.B.A. 1977, University of Southern California; C.P.A.

STOUT, MAUREEN (1994) .................Assistant Professor of Educational Leadership and Policy Studies B.A. 1985, University of British Columbia; Postgraduate Diploma 1986, London School of Economics and Political Science; M.A. 1987, Queen Mary College, University of London; Ph.D. 1994, University of California, Los Angeles.


STREED, RICHARD B. (1966) .................Associate Professor of Kinesiology B.S. 1965, M.S. 1966, University of Illinois.


STUTS, FRANCES ANN (1965) .................Dean, College of Health and Human Development; Professor of Kinesiology B.A. 1961, Idaho State College; M.S. 1965, Utah State University; Ph.D. 1972, University of Southern California.


SUGAR, MICHAEL J. (1973) .................Administrative Lieutenant, Department of Public Safety B.A. 1973, California State University, Northridge; J.D. 1979, College of Law, University of San Fernando Valley.

SULLIVAN, ROBERT A. (1977) .................Interim Vice President for Administration and Finance B.A. 1952, Dartmouth College; M.S. 1956, University of Colorado; Ph.D. 1965, University of Pittsburgh.

SUMMERS, MICHAEL L. (1998) .................Assistant Professor of Biology B.S. 1976, Heidelberg College; Ph.D. 1985, University of California, Davis.

SUN, YUN (1980) ..................Professor of Engineering B.S. 1985, National Taiwan University; M.S. 1986, National Chiao Tung University; Ph.D. 1987, University of California, Berkeley.


SVEREES, BARBARA T. (1971) .................Professor of Kinesiology B.A. 1964, Montclair State College; M.A. 1967, Ohio State University; Ph.D. 1972, University of Southern California.

TABIDIAN, M. ALI (1980) .................Associate Professor of Geological Sciences B.S. 1970, Esfahan University; M.S. 1979, Emporia State University; M.S. 1987, University of Kansas; Ph.D. 1987, University of Nebraska; Registered Environmental Assessor in California.

TARVER-BERHIN, SHARI (1991) .................Associate Professor of Educational Psychology and Counseling B.S. 1976, University of South Dakota; M.S. 1981, Marquette University; Ph.D. 1986, University of Wisconsin.

TCHAKERIAN, VIKEN (1991) .................Associate Professor of Engineering B.A. 1974, M.S. 1977, California State University, Northridge.

TEETER, SHIRLEY L. (1969) .................Associate Professor of Management B.B.A. 1957, University of New Mexico; M.B.A. 1959, Southern Methodist University; Ph.D. 1975, University of California, Los Angeles.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>School/University</th>
</tr>
</thead>
<tbody>
<tr>
<td>VELAZCO Y TRINOSKY, GREGORY (1998)</td>
<td>Associate Dean, College of Humanities; Professor of Chicano Studies and Professor of Philosophy</td>
<td>Tulane University</td>
</tr>
<tr>
<td>THEODOULOU, STELLA Z. (1990)</td>
<td>Professor of Political Science</td>
<td>Tulane University</td>
</tr>
<tr>
<td>THEUER, JOAN (1999)</td>
<td>Lecturer in Elementary Education</td>
<td>Concordia College, M.A. 1996, Concordia University</td>
</tr>
<tr>
<td>THOMAS, NATE (1994)</td>
<td>Associate Professor of Radio-TV-Film</td>
<td>B.A. 1979, St. Edward’s University; M.A. 1984, University of Southern California</td>
</tr>
<tr>
<td>THOMPSON, MARGARET (1967)</td>
<td>Educational Psychology and Counseling</td>
<td>B.A. 1974, University of California, Berkeley; Ed.D. 1976, University of California, Los Angeles</td>
</tr>
<tr>
<td>TIMMERMAN, BRENDA (1998)</td>
<td>Assistant Professor of Computer Science</td>
<td>B.A. 1979, University of Wisconsin; M.S. 1991, California State University, Northridge</td>
</tr>
<tr>
<td>TINDALL, TOM (1997)</td>
<td>Assistant Vice President, Facilities Management Director of Facilities Planning</td>
<td>B.A. 1971, University of California, Los Angeles; M.S. 1979, Ohio State University</td>
</tr>
<tr>
<td>TOHIDI, NAYEREH (1997)</td>
<td>Assistant Professor of Women’s Studies</td>
<td>B.S. 1974, University of Tehran; M.A. 1978, Ph.D. 1982, University of Illinois</td>
</tr>
<tr>
<td>TOLAN, JANICE D. (1987)</td>
<td>Associate Professor of Leisure Studies &amp; Recreation</td>
<td>B.S. 1980, M.S. 1984, California State University, Northridge; Ph.D. 1992, Texas Woman’s University; Recreation Therapist</td>
</tr>
<tr>
<td>TRUEX, GREGORY (1968)</td>
<td>Professor of Anthropology</td>
<td>B.A. 1967, California State University, Northridge; M.A. 1968, Tulane University; Ph.D. 1973, University of California, Irvine</td>
</tr>
<tr>
<td>VAKLJAN, RAMIN (1990)</td>
<td>Associate Professor of Mathematics</td>
<td>B.A. 1983, University of California, Berkeley; M.A. 1985, Ph.D. 1990, University of California, Davis</td>
</tr>
<tr>
<td>VARGAS, JOSE LUIS (1971)</td>
<td>Director, Educational Opportunity Program</td>
<td>B.A. 1974, M.A. 1975, California State University, Northridge</td>
</tr>
<tr>
<td>VELAZCO Y TRINOSKY, GREGORY (1998)</td>
<td>Associate Dean, College of Humanities; Professor of Chicano Studies and Professor of Philosophy</td>
<td>Tulane University</td>
</tr>
<tr>
<td>VIDAL, LUI (1986)</td>
<td>Assistant Director of Scholarship and Work Study, Financial Aid</td>
<td>B.A. 1977, University of California, Los Angeles; M.S. 1992, California State University, Northridge</td>
</tr>
<tr>
<td>VIRTUOSO, JOY A. (1985)</td>
<td>Professor of Art</td>
<td>B.A. 1983, University of California, Davis; B.F.A. 1983, Art Center College of Design; M.F.A. 1990, California State University, Los Angeles</td>
</tr>
<tr>
<td>VON WOLFFORDORF, JOY A. (1985)</td>
<td>Professor of Art</td>
<td>B.A. 1983, University of California, Davis; B.F.A. 1983, Art Center College of Design; M.F.A. 1990, California State University, Los Angeles</td>
</tr>
<tr>
<td>WAKIMOTO, JIN (1997)</td>
<td>Senior Assistant Librarian, Technical Services</td>
<td>B.A. 1977, University of Maryland; M.A. 1979, University of Chicago</td>
</tr>
<tr>
<td>WALKSII, WILLIAM F. (1968)</td>
<td>Professor of English</td>
<td>B.A. 1966, St. John’s University; M.A. 1958, Catholic University; Ph.D. 1967, Columbia University</td>
</tr>
<tr>
<td>WATSON, STEPHEN R. (1987)</td>
<td>Professor of Physics and Astronomy</td>
<td>B.S. 1977, California Institute of Technology; M.S. 1979, Ph.D. 1984, University of Hawaii</td>
</tr>
<tr>
<td>WANG, I-SHOU (1968)</td>
<td>Professor of Geography</td>
<td>B.S. 1963, National Taiwan University; M.A. 1966, Ph.D. 1971, University of Minnesota</td>
</tr>
<tr>
<td>WANG, WEN C. (1994)</td>
<td>Assistant Professor of Sociology</td>
<td>B.S. 1981, Beijing Normal University; Ph.D. 1993, University of California, Los Angeles</td>
</tr>
<tr>
<td>WARD, JACQUELINE E. (1990)</td>
<td>Director of Educational Equity Center</td>
<td>College of Social and Behavioral Sciences; B.A. 1984, University of California, Los Angeles; M.S. 1994 California State University, Northridge</td>
</tr>
<tr>
<td>WARD, VEDA (1990)</td>
<td>Professor of Leisure Studies and Recreation</td>
<td>B.A. 1972, Bucknell University; M.S. 1978, University of Baltimore; Ph.D. 1984, University of Maryland; Certified Leisure Professional (CLP)</td>
</tr>
<tr>
<td>WASSERMAN, SUSAN A. (1969)</td>
<td>Professor of Elementary Education</td>
<td>B.A. 1959, M.A. 1965, California State University, Northridge; Ed.D. 1969, University of California, Los Angeles</td>
</tr>
<tr>
<td>WEBER, ELIZABETH (1993)</td>
<td>Associate Professor of Communication Disorders and Sciences</td>
<td>B.A. 1966, M.A. 1975, Queens College, City University of New York; M.A. 1988, California State University, Northridge; Ph.D. 1989, University of California, Los Angeles</td>
</tr>
</tbody>
</table>
WEINBERG, ADRIANNE (1989) ...............Counselor, Financial Aid
B.A. 1986, University of California, Los Angeles; M.A. 1989, California State University, Northridge.

WEINBERG, NATHAN (1972) ....................Professor of Sociology

WEISS, ART D. (1972) .........................Professor of Art

WEISS, EARL J. (1984) .........Professor of Accounting and Management Information Systems
B.A. 1970, University of California, Los Angeles; M.S. 1980, California State University, Los Angeles; Ph.D. 1974, Southern California; C.P.A.

WEISNER, BRIAN D. (1995) .............Assistant Professor of History

WHITE, TOMMIE L. (1970) ............Professor of Kinesiology

WHITING, WILLIAM C. (1994) ............Professor of Music
B.M. 1959, University of Michigan; Ph.D. 1963, The Catholic University of America.

WHITWELL, DAVID E. (1969) ..............Assistant Professor of Business Law
B.S. 1975, M.S. 1976, University of California, Los Angeles.

WHITING, WILLIAM C. (1994) ............Associate Professor of Kinesiology
B.S. 1975, Stanford University; M.S. 1979, Ph.D. 1983, University of California, Berkeley.

WIANIN, MELANIE (1984) ..................Associate Professor of Business Law
B.A. 1977, University of California, Santa Cruz; J.D. 1981, Boston College; J.D. 1981, University of California, Los Angeles.

WILLIAMS, TERRA (1996) ......................Assistant Professor of Asian American Studies

WILLIS, ERIC (1989) .............Systems Administrator, Library
B.Sc. 1973, University of Western Ontario, Canada.

WILSON, BARBARA A. (1994) ..........Associate Professor of Business Communications

WILSON, PAUL S. (1995) ..............Assistant Professor of Biology
B.S. 1986, Humboldt State University; Ph.D. 1994, State University of New York-Stony Brook.

WINKELMAN, JACK L. (1976) ...............Professor of Health Sciences

WINSLOW, ROBERT M. (1981) .............Professor of Leisure Studies and Recreation
B.A. 1972, University of California, Los Angeles; M.S. 1977, California State University, Northridge; Ph.D. 1985, University of Southern California.

WINTERS, LORETTA L (1994) ..............Assistant Professor of Sociology

WITTIG, MICHELE A. (1973) ...............Professor of Psychology

WOHL, IRGITTA (1970) .........................Professor of Art

WOLFE, GEORGE A. (1990) ..........Associate Professor of Health Sciences
B.A. 1968, University of California, Los Angeles; M.A. 1973, Ph.D. 1984, University of Southern California.

WOLFGAM, JULIANN (1996) .............Assistant Professor of Art
B.A. 1979, Scripps College; M.A. 1984, University of Kansas.

WONG, ROMAN M. (1999) ..................Lecturer in Accounting & Management Information Systems

WOOD, DAVID L. (1970) ......................Professor of History
B.S. 1965, Bingham Young University; M.A. 1968, Ph.D. 1972, University of Utah.

WOOD, MURRAY (1999) ......................Associate Vice President of Development
B.A. 1967, La Salle University; M.S.S. 1969, Bryn Mawr College.

WOODLEY, MARY S. (1999) ..............Senior Assistant Librarian, Technical Services

WRIGHT, ALAN N. (1990) .............Associate Professor of Leisure Studies and Recreation

WU, RUQIAN (1994) ..................Professor of Physics and Astronomy

WURTHMAN, LYNDIA (1974) ..............Manager of Academic Resources, College of Social and Behavioral Sciences
B.A. 1982, M.A. 1986, California State University, Northridge.

XANTHOS, CHRISTOPHER J. (1985) .......Director of Systems and Technology
B.A. 1985, California State University, Northridge; J.D. 1990, Southwestern School of Law.

YAGISHAWA, TAKASHI (1973) .............Professor of Philosophy

YAO, CHI-CHUAN A. (1986) ..............Associate Professor of Management Science
B.A. 1977, Soochow University; M.S. 1979, Ph.D. 1988, University of Southern California.

YASPELKS, BENEDICT (1996) .......Assistant Professor of Kinesiology
B.A. 1988, Pepperdine University; M.A. 1990, Ph.D. 1995, University of Texas.

YE, JACQUARD (1990) .............Assistant Professor of Accounting and Management Information Systems
B.A. 1985, University of Regina; Ph.D. 1990, University of Minnesota.

YOSHIDA, BRETT (1995) ....................Assistant Director, Center for Academic Preparedness, College of Science and Mathematics.

YOUNG, SUSAN (1989) ..................Assistant Director of Counseling, Financial Aid
B.A. 1977, California State University, Northridge.

YU, BEN T. (1994) ...................Professor of Economics

YULE, J. DOUGLAS (1999) .............Assistant Professor of Geosciences
B.A. 1983, Pomona College; M.S. 1988, University of Wyoming; Ph.D. 1996, California Institute of Technology.

ZAHIR, KHRURAM O. (1990) .........Associate Professor of Chemistry
B.S. 1975, Murray College; M.S. 1977, University of California, Los Angeles; Ph.D. 1986, State University of New York.

ZAKERI, GHOLAM-ALI (1990) ...............Professor of Mathematics
B.S. 1975, Jundi-Shapour University; M.S. 1978, Michigan State University; Ph.D. 1985, Kansas State University.

ZARTOSHTY, BAHRAM (1998) .........Lecturer in Computer Science
B.A. 1982, Transylvania University; M.S. 1984, University of Kentucky.

ZASLAVSKY, MORRIS (1973) .............Professor of Art

ZAVALA, MARIA E. (1988) ..............Professor of Biology
A.B. 1972, Pomona College; Ph.D. 1978, University of California, Berkeley.

ZEITLIN, JOEL L. (1973) ..................Professor of Mathematics

ZELL, DEONE M. (1998) ....................Assistant Professor of Management

ZHOU, ZHONG-GUO (1998) ..........Assistant Professor of Finance Real Estate and Insurance
B.S. 1983, Shanghai University of Technology; M.B.A. 1988, Ph.D. 1993, University of California, Riverside.

ZOOK, KRISTAL B. (1999) .........Assistant Professor of Pan African Studies
B.A. 1987, University of California, Santa Barbara; Ph.D. 1994, University of California, Santa Cruz.

ZUCKER, BRUCE (1997) ..............Assistant Professor of Business Law

ZVI, JENNIFER C. (1986) ...............Learning Disability Specialist, Office of Disabled & Veteran Student Services

ADAMS, ADRAH (1960)  Professor of Kinesiology  B.A. 1952, University of California, Santa Barbara; M.S. 1959, University of California, Los Angeles; Ph.D. 1965, University of Southern California.

ALYND, JOHN (1971)  Professor of Radio-TV-Film  B.A. 1945, University of Michigan; M.A. 1951, Ph.D. 1970, University of California, Los Angeles; Ph.D. 1965, University of Southern California.


APROBERTS, ROBERT P. (1960)  Professor of English  B.A. 1940, University of British Columbia; M.A. 1948, Ph.D. 1950, University of California, Berkeley.

ARMER, ALAN (1979)  Professor of Radio-TV-Film  B.A. 1947, Stanford University; M.A. 1982, University of California, Los Angeles; Ph.D. 1965, University of Southern California.

ARMSTRONG, KENNETH (1969)  Professor of Special Education  B.A. 1951, Whitmer College; M.A. 1956, California State University, Los Angeles; Ed.D. 1967, University of Kansas.

AUEBACH, M. MORTON (1959)  Professor of Political Science  B.A. 1947, Georgetown University; Ph.D. 1958, Columbia University.

BACA, ALBERT R. (1962)  Professor of Foreign Languages and Literatures  B.A. 1951, University of California, Los Angeles; Ph.D. 1965, University of Southern California.

BACKLIN, HELEN (1962)  Professor of Theatre  B.A. 1944, M.A. 1962, University of Minnesota.

BAECHTOLD, GEORGE (1970)  Professor of Business Law  B.S. 1950, Elmhurst College; J.D. 1959, University of Southern California.

BAILEY, BETTY J. (1966)  Associate Professor of Family Environmental Sciences  B.S. 1959, M.S. 1962, San Francisco State University; Ph.D. 1970, University of Southern California.

BAKOWITZ, LEONARD (1959)  Professor of Modern and Classical Languages and Literatures  B.A. 1947, Queens College; M.S. 1971, California State University, Northridge.

BARRETT, SOL S. (1958)  Professor of Art  B.A. 1948, Pomona College; M.L.S. 1959, University of California, Berkeley.


BARTENSTEIN, EDWIN (1975)  Professor of Special Education  B.S. 1951, M.Ed. 1952, University of Wisconsin-Milwaukee; Ph.D. 1959, Northwestern University.

BAUMANN, BERTHOLD (1974)  Professor of Educational Psychology and Counseling  B.S. 1963, Iowa State University; M.S. 1968, City College of New York; Ed.D. 1980, University of California, Los Angeles.

BAYER, MURIEL (1961)  Associate Professor of Kinesiology  B.S. 1943, University of California, Los Angeles; M.A. 1961, University of Southern California.


BECK, TAMAR (1968)  Professor of Sociology  B.S. 1952, M.A. 1953, Columbia University; Ph.D. 1966, University of California, Los Angeles.


BELL, PETER F. (1958)  Professor of Biology  B.A. 1942, Ph.D. 1952, Yale University.


BENNETT, MARY E. (1969)  Professor of Health Sciences  B.A. 1945, Willamette University; M.A. 1959, University of Southern California; Licensed Physical Therapist, State of California.

BENSON, ANNA (1968)  Professor of Modern and Classical Languages and Literatures  B.A. 1951, Augsburg College; M.A. 1959, California State University, Los Angeles; Ph.D. 1966, University of Southern California.

BENSON, DAVID (1961)  Professor of Kinesiology  B.S. 1954, M.S. 1958, University of California, Los Angeles; Ph.D. 1966, University of Southern California.

BERKOWITZ, LEONARD (1961)  Professor of Music  B.Mus. 1941, M.Mus. 1948, Yale University.


BIUK, GEORGE (1962)  Professor of Mathematics  B.A. 1950, Bonn University, Germany; M.A. 1956, Indiana University; Ph.D. 1962, University of California, Los Angeles.

BISNO, A.R. (1979)  Professor of Special Education  Ph.B. 1946, University of Chicago; M.A. 1970, California State University, Los Angeles; Ph.D. 1979, University of California, Los Angeles.

BLACKMAN, DOROTHY M. (1971)  Assistant Professor of Family Environmental Sciences  B.A. 1947, Queens College; M.S. 1971, California State University, Northridge.


BLATTNER, WILLIAM (1959)  Professor of Mathematics  B.A. 1951, Central College, Missouri; M.S. 1954, University of Wisconsin; Ph.D. 1959, University of California, Los Angeles.

BLUTH, ELIZABETH (1965)  Professor of Sociology  B.A. 1957, Bucknell University; M.A. 1960, Fordham University; Ph.D. 1970, University of California, Los Angeles.

BOGDANOFF, EARL (1965)  Professor of Sociology  B.A. 1952, Roosevelt University; M.A. 1954, University of Chicago; Ph.D. 1960, Northwestern University.

BOSHKA, ELIZABETH CRANE (1974)  Professor of Educational Psychology and Counseling  B.S. 1963, Iowa State University; M.S. 1968, City College of New York; Ed.D. 1980, University of California, Los Angeles.


BRADY, ELIZABETH (1955)  Professor of Educational Psychology and Counseling  B.A. 1941, Carleton College; M.A. 1955, University of Chicago.


BREITENZIG, LOUIS A. (1959)  Director, Career Planning and Placement; Professor of Educational Leadership and Policy Studies  B.A. 1926, Midland College; M.A. 1931, University of Colorado; Ph.D. 1940, University of Northern Colorado.

BREWING, GWEN (1965)  Professor of English  B.A. 1953, M.A. 1955, Brigham Young University; Ph.D. 1968, Claremont Graduate School.

BROCK, JAMES W. (1958)  Professor of Theatre  B.A. 1941, Manhattan College; M.A. 1942, Ph.D. 1950, Northwestern University.


BROWN, GEORGE W. (1965)  Professor of Political Science  B.A. 1950, University of California, Los Angeles; M.A. 1959, California State University, Los Angeles; Ph.D. 1963, Claremont Graduate School.

BROWN, RUTH (1952)  Professor of Theatre  B.A. 1975, Western Michigan University; M.F.A. 1981, University of Michigan.

BUCHALTER, SOL S. (1958)  Professor of Finance, Real Estate and Insurance  B.B.A. 1948, College of the City of New York; M.B.A. 1950, New York University; C.P.A.

BULLARO, JOHN J. (1973) .... Professor of Leisure Studies and Recreation
B.A. 1954, California State University, Los Angeles; M.A. 1956, New York University; Ph.D. 1978, Claremont Graduate School.

BULLOUGH, VERN L. (1959) .... Professor of History
B.A. 1957, University of Utah; M.A. 1951, University of Chicago; Ph.D. 1954, University of Chicago.

BURNELL, JAMES B. (1960) .... Senior Assistant Librarian, Technical Services
M.A. 1947, University of Washington; M.L.S. 1960, University of Southern California.

BURROWS, THOMAS D. (1973) .... Professor of Radio-TV-Film
B. Mus. 1951, M.A. 1976, University of Southern California.

BUTLER, KARLA (1966) ..............

BUTLER, THOMAS D. (1973) ..............

CALDWELL, STRATTON (1965) .......
Bachelor of Architecture 1961, University of Southern California.

CANNON, GEORGE R. (1963) ...... Professor of Computer Science
B.A. 1957, California State University, Los Angeles; M.B.A. 1963, University of California, Los Angeles; C.D.P. 1966.

CARLSON, JOHN W. (1969) .... Associate Professor of Elementary Education

CARLTON, CHARLES R. (1958) .... Professor of English

CASE, JAMES (1967) ......... Head Coach, Intercollegiate Athletics
B.A. 1958, M.A. 1969, California State University, Northridge.

CHAMPATR, NARAYAN S. (1963) .... Professor of Philosophy
B.S. 1947, M.S. 1949, University of Bombay; M.A. 1964, Ph.D. 1969, University of California, Los Angeles.

CHARLAP-HYMAN, ARTHUR (1965) .... Professor of Educational Psychology and Counseling
B.A. 1942, Harvard University; M.S.W. 1951, Ph.D. 1964, University of Southern California.

CHOW, PAUL C. (1968) ......... Professor of Physics and Astronomy
B.A. 1960, University of California, Berkeley; Ph.D. 1965, Northwestern University.

CHEADLE, JAMES W. (1969) .... Professor of Communication Studies
Ph.B. 1950, M.A. 1951, Marquette University; Ph.D. 1956, University of Wisconsin.

COLLINS, LORRENE C. (1959) .... Professor of Geological Sciences
B.S. 1953, M.S. 1955, Ph.D. 1959, University of Illinois.

CREACHE, NORMA (1981) .... Associate Director, University Libraries; Librarian
B.A. 1947, University of Colorado; M.L.S. 1969, Texas Woman’s University.

CROWTHER, JOHN F. (1961) ......... Professor of Sociology

CUMMINS, LYNN M. (1979) .... Associate Librarian, Technical Services
B.A. 1967, Pomona College; M.S.L.S. 1978, University of Southern California.

DANIN, MARY ANN (1969) .... Professor of Art

DAVIDSON, RAYMOND A. (1963) .... Professor of Engineering

DAVIS, GERALD D. (1981) ......... Professor of Engineering
B.S. 1953, M.S. 1957, University of Illinois; Professional Engineer, State of Illinois.

DAVIS, WILLIAM C. (1970) ......... Professor of Art
B.A. 1962, M.A. 1968, California State University, Northridge; M.F.A. 1979, University of Southern California.

DAVISON, WALTER F. (1966) ....... Associate Professor of Mathematics
B.S. 1951, California Institute of Technology; Ph.D. 1956, University of Virginia.

DEANDA, JOSEPH (1970) .... Professor of Modern and Classical Languages and Literature
B.A. 1948, University of California, Los Angeles; M.A. 1965, California State University, Los Angeles; Ph.D. 1969, University of Southern California.

DEAR, ROBERT E. (1966) .......... Professor of Psychology
B.A. 1950, University of Wisconsin; M.A. 1952, University of Oregon; Ph.D. 1957, University of Washington.

DE LA VEGA, AURELIO (1959) .... Professor of Music

DELWANTE, ROBERT G. (1963) .... Professor of Music
B.A. 1955, M.A. 1959, California State University, Los Angeles.

DENNIS, DORS (1974) .......... Counselor, Counseling Services
B.A. 1973, M.A. 1975, California State University, Northridge; Licensed M.F.C. Counselor, California; Certified Sex Therapist; Certified Hypnotherapist.

DEVINE, BARRY M. (1963) .... Professor of Kinesiology

DIRR, ALLEN W. (1959) .......... Professor of History
B.A. 1950, DePauw University; M.A. 1951, University of Cincinnati; Ph.D. 1959, Indiana University.

DOCTOR, ROBERT L. (1960) .... Professor of Educational Psychology and Counseling
B.A. 1952, University of California, Los Angeles; M.S. 1956, Ph.D. 1960, University of Southern California.

DOMAN, MARY GAY (1984) .... Associate Professor of Modern and Classical Languages and Literature

EASLEY, HARRETT (1959) ........... Professor of Elementary Education
B.Ed. 1939, University of California, Los Angeles; M.Ed. 1952, University of Southern California.

EASON, ELMER E. (1957) .... Professor of Educational Leadership and Policy Studies
B.S. 1949, Washington University; M.A. 1951, Michigan State University; Ed.D. 1957, University of Illinois.

EGBERT, JAMES H. (1959) ....... Professor of Communicative Disorders and Sciences
B.A. 1941, Washington State University; M.A. 1946, University of Missouri; Ph.D. 1953, Stanford University.

EISEMAN, SEYMOUR (1968) ....... Professor of Health Sciences
B.A. 1952, New York University; M.S. 1958, Hofstra College; M.Ph. 1966, Dr.P.H. 1968, University of California, Los Angeles.

ELLNER, CAROLYN L. (1982) .... Dean, College of Education;
Professor of Secondary Education
B.A. 1953, Mount Holyoke College; M.A. 1957, Columbia Teachers College; Ph.D. 1968, University of California, Los Angeles.

EMBODEN, WILLIAM A. (1965) .... Professor of Biotechnology
B.A. 1957, Purdue University; M.A. 1960, Indiana University; Ph.D. 1965, University of California, Los Angeles.

EMG, RALPH PHILIP II (1964) .... Professor of Mathematics

ETHERINGTON, MARY ELLEN (1965) .... Professor of Health Sciences

EVANS, KEITH D. (1971) .......... Associate Professor of Economics
B.A. 1956, Stanford University; Ph.D. 1971, University of Washington.

EVANS, MARY JANE (1959) ......... Professor of Theatre
B.A. 1944, Northwestern University; M.A. 1955, Michigan State University.

EVANS, RALPH K. (1959) .......... Professor of Art
B.A. 1951, M.A. 1955, California State University, Los Angeles; M.F.A. 1964, University of Southern California.

FELDMAN, SAMUEL N. (1970) ....... Professor of Journalism
B.A. 1954, University of Southern California; M.A. 1964, University of Redlands; Ed.D. 1973, University of California, Los Angeles.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Notes</th>
</tr>
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<tbody>
<tr>
<td>Fendrick, Marilyn D.</td>
<td>Professor of Elementary Education B.S. 1945, University of Minnesota; M.A. 1963, California State University, Los Angeles; Ed.D. 1966, University of Southern California.</td>
</tr>
<tr>
<td>Fernelius, Bryne</td>
<td>Professor of Leisure Studies and Recreation B.S. 1941, M.S. 1947, Utah State University; Re:Dir. 1950, Dr. Rec. 1963, Indiana University.</td>
</tr>
<tr>
<td>Fierro, Charles R.</td>
<td>Professor of Music B.A. 1960, St. John’s College; B.M. 1961, Mount St. Mary’s College; M.M. 1964, D.M.A. 1973, University of Southern California.</td>
</tr>
<tr>
<td>Finestone, Harry</td>
<td>Professor of Mathematics B.A. 1953, Ph.D. 1964, University of California, Berkeley.</td>
</tr>
<tr>
<td>Fierro, Charles R.</td>
<td>Associate Professor of Mathematics B.A. 1953, Ph.D. 1964, University of California, Berkeley.</td>
</tr>
<tr>
<td>Fierro, Charles R.</td>
<td>Professor of English A.B. 1941, Emory University; M.A. 1942, Ph.D. 1953, University of Chicago.</td>
</tr>
<tr>
<td>Fisk, George F.</td>
<td>Professor of Biology B.S. 1954, M.S. 1956, Michigan State University; Ph.D. 1961, University of California, Berkeley.</td>
</tr>
<tr>
<td>Fitch, Roy</td>
<td>Professor of Educational Leadership and Policy Studies B.A. 1947, M.A. 1948, University of Iowa; Ed.D. 1960, University of Southern California.</td>
</tr>
<tr>
<td>Flesing, Howard A.</td>
<td>Professor of History B.A. 1947, Ph.D. 1952, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Ford, John T.</td>
<td>Director of Instructional Media Center; Professor of Health Sciences B.S. 1955, M.S. 1958, Ed.D. 1963, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Fonson, Gail B.</td>
<td>Professor of Family Environmental Sciences B.A. 1968, California State University, Northridge; M.S. 1969, Ohio State University; Ph.D. 1979, University of Nebraska; Registered Dietitian, American Dietetic Association.</td>
</tr>
<tr>
<td>Ford, Joseph B.</td>
<td>Professor of Sociology B.A. 1937, University of California, Los Angeles; M.A. 1941, University of Southern California; M.A. 1947, Harvard University; Ph.D. 1951, University of California, Berkeley.</td>
</tr>
<tr>
<td>Forer, Ruth K.</td>
<td>Professor of Special Education B.A. 1952, New York University; M.A. 1965, California State University, Los Angeles; Ed.D. 1970, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Foster, Harriet W.</td>
<td>Clinical Psychologist, Counseling Services B.A. 1945, University of Minnesota; M.A. 1946, Columbia University; Ph.D. 1953, University of Michigan; Licensed Psychologist, California.</td>
</tr>
<tr>
<td>Freeman, William G.</td>
<td>Professor of Communication Studies B.A. 1957, Pasadena Playhouse College of Theatre Arts; B.A. 1966, M.A. 1967, San Fernando Valley State College; Ph.D. 1979, University of Iowa.</td>
</tr>
<tr>
<td>Frigano, Tom S.</td>
<td>Professor of Art B.F.A. 1953, Bradley University; M.F.A. 1956, University of Illinois.</td>
</tr>
<tr>
<td>Frischke, A. Eugene</td>
<td>Professor of Geoscience A.B. 1935, Ph.D. 1949, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Gaines, John F.</td>
<td>Professor of Geography B.Ed. 1940, Southern Illinois Normal University; M.A. 1946, Ph.D. 1951, University of Nebraska.</td>
</tr>
<tr>
<td>Gardner, Julie O.</td>
<td>Professor of Communicative Disorders and Sciences B.A. 1967, California State University, Northridge; M.A. 1969, Ph.D. 1972, University of Southern California.</td>
</tr>
<tr>
<td>Garfinkel, Alan J.</td>
<td>Associate Professor of Philosophy A.B. 1966, Cornell University; Ph.D. 1975, Harvard University.</td>
</tr>
<tr>
<td>Gario, Carmelo</td>
<td>Professor of Modern and Classical Languages and Literatures Doctor of Letters 1945, University of Catania; Professor of Letters 1952, Licenciado en Lit. 1953, University of Buenos Aires; M.A. 1956, de Paul University; Ph.D. 1964, University of Chicago.</td>
</tr>
<tr>
<td>Gaston, Jack J.</td>
<td>Associate Professor of Mathematics and Engineering B.S. 1954, M.S. 1957, Ph.D. 1968, University of California, Los Angeles; Professional Engineer, State of California.</td>
</tr>
<tr>
<td>Gaudin, Anthony J.</td>
<td>Professor of Biology B.A. 1959, M.S. 1964, Ph.D. 1969, University of Southern California.</td>
</tr>
</tbody>
</table>

**FACULTY AND ADMINISTRATION EMERITI**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Giedt, F. Harold</td>
<td>Clinical Psychologist; Professor of Counseling Services B.A. 1947, University of Redlands; Ph.D. 1951, University of California, Los Angeles; Licensed Psychologist, California; Diplomate in Clinical Psychology, American Board of Professional Psychology.</td>
</tr>
<tr>
<td>Giedt, Helen</td>
<td>Professor of Psychology A.B. 1942, M.A. 1942, Kansas University; Ph.D. 1952, University of Southern California.</td>
</tr>
<tr>
<td>Gillespie, Edmund S.</td>
<td>Professor of Engineering B.E.E. 1951, Auburn University; M.S. 1961, Ph.D. 1967, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Glass, Leninn H.</td>
<td>Dean, College of Health and Human Development; Professor of Health Sciences B.S. 1950, University of California, Los Angeles; M.P.H. 1953, University of California, Berkeley; Dr.P.H. 1964, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Goldbach, John C.</td>
<td>Professor of Political Science B.A. 1952, Loyola University; M.A. 1955, University of Southern California; Ph.D. 1964, Claremont Graduate School.</td>
</tr>
<tr>
<td>Gordon, Milton</td>
<td>Professor of Management B.S. 1943, University of Wisconsin-Milwaukee; M.A. 1949, Marquette University; Ph.D. 1952, University of Wisconsin.</td>
</tr>
<tr>
<td>Gossard, Margery E.</td>
<td>Assistant Professor of Music B.M. 1969, University of Southern California.</td>
</tr>
<tr>
<td>Grey, Loren</td>
<td>Professor of Educational Psychology and Counseling A.B. 1939, M.S. 1954, Ph.D. 1959, University of Southern California.</td>
</tr>
<tr>
<td>Grifiths, Roy</td>
<td>Professor of Music B.A. 1951, M.Sc. 1953, University of British Columbia; Ph.D. 1960, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Grigori, Artur</td>
<td>Associate Professor of Mathematics B.A. 1939, Pedagogical Institute, Baku, Russia; M.S. 1942, Engineering Institute, Moscow, Russia; Ph.D. 1950, University of Tuebingen, Germany.</td>
</tr>
<tr>
<td>Grigsby, Beverly</td>
<td>Professor of Music B.A. 1961, M.A. 1963, California State University, Northridge; D.M.A. 1986, University of Southern California.</td>
</tr>
<tr>
<td>Grossman, Lillie</td>
<td>Professor of Family Environmental Sciences B.S. 1957, University of Texas; M.S. 1964, Dr.P.H. 1977, University of California, Los Angeles; Registered Dietitian, American Dietetic Association.</td>
</tr>
<tr>
<td>Gunkle, George N.</td>
<td>Professor of Theatre B.A. 1955, M.A. 1960, University of Illinois; Ph.D. 1963, University of Iowa.</td>
</tr>
<tr>
<td>Guthrie, Darrel W.</td>
<td>Professor of Kinesiology B.S. 1951, M.S. 1962, Utah State University; Ed.D. 1971, Brigham Young University.</td>
</tr>
<tr>
<td>Gutzstadt, Allan M.</td>
<td>Professor of Geological Sciences B.A. 1949, University of Illinois; Ph.D. 1954, Northwestern University.</td>
</tr>
<tr>
<td>Hagen, Joyce C.</td>
<td>Professor of Special Education B.A. 1952, Stanford University; M.A. 1970, Ph.D. 1979, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Hall, Marguerite</td>
<td>Associate Professor of Modern and Classical Languages and Literature B.A. 1957, M.A. 1960, Ph.D. 1967, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Ham, C. L.</td>
<td>Associate Professor of Economics B.S. 1947, University of Wisconsin; M.A. 1965, University of California, Berkeley; Ph.D. 1972, University of Southern California.</td>
</tr>
<tr>
<td>Hans, Bernard</td>
<td>Professor of Health Sciences B.S. 1948, M.S. 1950, Pennsylvania State University; Ph.D. 1952, Ohio State University.</td>
</tr>
<tr>
<td>Hannah, Elaine P.</td>
<td>Professor of Communicative Disorders &amp; Sciences B.A. 1946, University of Buffalo; M.A. 1948, University of Wisconsin; Ph.D. 1956, Indiana University.</td>
</tr>
<tr>
<td>Hannah, John</td>
<td>Professor of Art B.F.A. 1972, University of Buffalo; M.F.A. 1955, University of Illinois.</td>
</tr>
<tr>
<td>Hansen, Philip A.</td>
<td>Professor of Special Education B.A. 1950, B.Ed. 1953, Western Washington State College; M.A. 1967, California State University, Northridge; Ed.D. 1970, University of California, Los Angeles.</td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
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<tr>
<td>HARBIGER, EDWARD J.</td>
<td>Professor of History</td>
</tr>
<tr>
<td>HAINING, WILLIAM F.</td>
<td>Associate Professor of Chemistry</td>
</tr>
<tr>
<td>HARDCASTLE, KENNETH L.</td>
<td>University of Nevada, Las Vegas</td>
</tr>
<tr>
<td>HARDE, MARVIN (1968)</td>
<td>Associate Professor of Art</td>
</tr>
<tr>
<td>HARDY, MERRILL D. (1966)</td>
<td>Professor of Kinesiology</td>
</tr>
<tr>
<td>HARRIS, FRANCIS L. (1968)</td>
<td>Professor of Political Science</td>
</tr>
<tr>
<td>HARRIS, SHELDON H. (1963)</td>
<td>Professor of History</td>
</tr>
<tr>
<td>HARRISON, WILLIAM F.</td>
<td>Associate Professor of Chemistry</td>
</tr>
<tr>
<td>HARSHAW, MACON (1968)</td>
<td>Clinical Psychologist; Professor</td>
</tr>
<tr>
<td>HAYNO, DAVID M. (1971)</td>
<td>Professor of Anthropology</td>
</tr>
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<td>HAYNE, ANNE E. (1969)</td>
<td>Professor of Art</td>
</tr>
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<td>HEMLER, CHARLES H.</td>
<td>Professor of Secondary Education</td>
</tr>
<tr>
<td>HERNANDEZ, JOSE A. (1969)</td>
<td>Professor of Chicano/a Studies</td>
</tr>
<tr>
<td>HIGGART, ROBERT J. (1965)</td>
<td>Associate Professor of Kinesiology</td>
</tr>
<tr>
<td>HIGGIN, HARRY R. (1960)</td>
<td>Professor of Biology</td>
</tr>
<tr>
<td>HIMELSON, ALFRED N.</td>
<td>Professor of Sociology</td>
</tr>
<tr>
<td>HOLLAND, GEORGE (1962)</td>
<td>Professor of Kinesiology</td>
</tr>
<tr>
<td>HOLLER, FREDERICK (1963)</td>
<td>Librarian, Reference and Instructional Services</td>
</tr>
<tr>
<td>HONE, ELIZABETH (1958)</td>
<td>Professor of Elementary Education</td>
</tr>
<tr>
<td>HORGAN, RUTH B. (1977)</td>
<td>Associate Professor of Computer Science</td>
</tr>
<tr>
<td>HUBBLE, EDWARD J. (1964)</td>
<td>Professor of Engineering</td>
</tr>
<tr>
<td>JONES, ALVIA J. (1959)</td>
<td>Associate Professor of Kinesiology</td>
</tr>
<tr>
<td>KENNEDY, JOYCE (1975)</td>
<td>Director, California State University, Northridge, University of Southern California.</td>
</tr>
<tr>
<td>KLOTZ, MARVIN (1959)</td>
<td>Professor of English</td>
</tr>
<tr>
<td>KRAMER, WILLIAM (1969)</td>
<td>Professor of Religious Studies</td>
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<tr>
<td>LICHTEN, LARRY (1985)</td>
<td>Professor of Computer Science</td>
</tr>
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<td>LEWTHWAITE, GORDON R. (1959)</td>
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<td>LEVINE, MARTIN G. (1967)</td>
<td>Assistant Professor of Mathematics</td>
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<td>KULIK, BARBARA J. (1970)</td>
<td>Professor of Special Education</td>
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<td>KWAN, KIAN M. (1965)</td>
<td>Professor of Sociology</td>
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<td>LABINOWICZ, EDWARD (1970)</td>
<td>Professor of Elementary Education</td>
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<tr>
<td>LAH, DONALD G. (1966)</td>
<td>Associate Professor of Educational Leadership and Policy Studies</td>
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<td>LAM, ROBERT (1958)</td>
<td>Professor of Geography</td>
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<td>LAWRENCE, JOHN K. (1973)</td>
<td>Professor of Physics and Astronomy</td>
</tr>
<tr>
<td>LAWSON, GERALD L. (1960)</td>
<td>Professor of Music</td>
</tr>
<tr>
<td>LEE, GRACE E. (1973)</td>
<td>Professor of Special Education</td>
</tr>
<tr>
<td>LEE, YOW-MIN R. (1973)</td>
<td>Professor of Accounting and Management Information Systems</td>
</tr>
<tr>
<td>LEEVTHWAITE, GORDON R. (1959)</td>
<td>Professor of Geography</td>
</tr>
<tr>
<td>LEVITT, LARRY (1985)</td>
<td>Professor of Computer Science</td>
</tr>
<tr>
<td>LEID, RICHARD W. (1964)</td>
<td>Professor of English</td>
</tr>
<tr>
<td>LIFSON, MELVIN D. (1983)</td>
<td>Professor of Engineering</td>
</tr>
<tr>
<td>LIGGETT, ROSALIE S. (1970)</td>
<td>Professor of Music</td>
</tr>
<tr>
<td>LIN, TUNG-PO (1961)</td>
<td>Professor of Mathematics</td>
</tr>
<tr>
<td>LINDENFELD, JACQUELINE (1971)</td>
<td>Professor of Anthropology</td>
</tr>
<tr>
<td>LINDSAY, JOHN W. (1962)</td>
<td>Professor of Mathematics</td>
</tr>
<tr>
<td>LODGE, HELEN C. (1954)</td>
<td>Professor of Secondary Education</td>
</tr>
<tr>
<td>LÖHR, MYRTLE C. (1961)</td>
<td>Professor of Family Environmental Sciences</td>
</tr>
<tr>
<td>LØFTHOUSE, YVONNE M. (1968)</td>
<td>Assistant Professor of Elementary Education</td>
</tr>
<tr>
<td>LORBER, GEORGE (1950)</td>
<td>Professor of Secondary Education</td>
</tr>
<tr>
<td>LOVE, THOMAS T. (1968)</td>
<td>Professor of Religious Studies</td>
</tr>
<tr>
<td>LUPUL, MAX (1965)</td>
<td>Professor of Marketing</td>
</tr>
<tr>
<td>LUTTGE, JOHN E. (1966)</td>
<td>Associate Professor of Modern and Classical Languages and Literatures</td>
</tr>
<tr>
<td>LYNCH, CHARLES T. (1979)</td>
<td>Professor of Radio-TV-Film</td>
</tr>
<tr>
<td>MACHADO, KIT (1970)</td>
<td>Professor of Political Science</td>
</tr>
<tr>
<td>MACKAY, CAROL J. (1968)</td>
<td>Professor of Anthropology</td>
</tr>
<tr>
<td>MAGINNIS, MARIA (1959)</td>
<td>Professor of Educational Psychology and Counseling</td>
</tr>
<tr>
<td>MANN, JEANETTE (1976)</td>
<td>Special Assistant to the President for Equity and Diversity</td>
</tr>
<tr>
<td>MANLEY, CHARLES (1958)</td>
<td>Professor of Educational Leadership and Policy Studies</td>
</tr>
<tr>
<td>MANS, JAMES (1967)</td>
<td>Professor of Management</td>
</tr>
<tr>
<td>MARION, MARION TAYLOR (1960)</td>
<td>Professor of Elementary Education</td>
</tr>
<tr>
<td>MASTERS, WARNER K. (1958)</td>
<td>Vice President for Business and Administrative Affairs</td>
</tr>
<tr>
<td>MCCAFFERTY, W. DEAN (1959)</td>
<td>Professor of Educational Psychology and Counseling</td>
</tr>
<tr>
<td>MCDOWARDS, MARY (1963)</td>
<td>Professor of Communication Studies</td>
</tr>
<tr>
<td>MCGHEE, JOHN, W., JR.</td>
<td>Professor of Mathematics</td>
</tr>
<tr>
<td>MCGINNIS, FRANKS F. (1968)</td>
<td>Professor of Music</td>
</tr>
<tr>
<td>MCHUGH, RAYMOND (1963)</td>
<td>Professor of Secondary Education</td>
</tr>
<tr>
<td>MCINTIRE, WAYNE F. (1950)</td>
<td>Professor of Educational Leadership and Policy Studies</td>
</tr>
<tr>
<td>MCKENZIE, JOANNA (1968)</td>
<td>Professor of Secondary Education</td>
</tr>
<tr>
<td>McMahan, Fred R. (1957)</td>
<td>Professor of Communication Studies</td>
</tr>
<tr>
<td>MEAKER, GERALD H. (1968)</td>
<td>Professor of History</td>
</tr>
<tr>
<td>MEDCINE, BEATRICE (1982)</td>
<td>Associate Professor of Anthropology</td>
</tr>
<tr>
<td>MEHLMAN, BENJAMIN (1962)</td>
<td>Professor of Psychology</td>
</tr>
</tbody>
</table>
MEIER, DOROTHY L. (1970) Associate Professor of Sociology
B.S. 1956, University of Kansas; M.A. 1957, Northwestern University; Ph.D. 1962, University of California, Los Angeles.

METZNER, SEYMOUR (1969) Professor of Elementary Education
B.S. Ed. 1949, Fordham University; M.Ed. 1956, Tufts University; Ed.D. 1964, University of Miami.

MICHAELSON, EVALYN J. (1967) Professor of Anthropology
B.A. 1955, Ph.D. 1966, University of California, Los Angeles.

MILLER, DOROTHY (1978) Professor of Computer Science
B.A. 1965, California State University, Northridge; M.A. 1975, University of California, Santa Barbara; Ph.D. 1988, University of California, Los Angeles.

MILLER, JOHN R. (1966) Professor of Management Science
B.S. 1949, United States Naval Academy; M.B.A. 1956, Ph.D. 1969, University of California, Los Angeles.

MILLER, RODGEO Y. (1975) Associate Professor of Sociology
B.A. 1951, Goshen College; M.S.W. 1957, University of Michigan; D.W.S. 1974, University of Southern California.

MINASIAN, JORA R. (1972) Professor of Economics
B.S. 1953, M.B.A. 1954, DePaul University; Ph.D. 1960, University of Chicago.

MITCHELL, BETTY J. (1967) Associate Director, University Library
B.A. 1952, Southwest Missouri State College; M.L.S. 1967, University of Southern California.

MOORE, JOSEPH (1962) Professor of Biology
B.S. 1952, M.A. 1959, Ph.D. 1961, University of California, Los Angeles.

MOORE, MORTIMER N. (1961) Professor of Physics and Astronomy

MORRIS, ROXIE F. (1969) Professor of Health Sciences
B.A. 1929, Iowa State Teachers College; M.A. 1950, University of Southern California.

MORSE, DARRELL P. (1963) Professor of History
B.A. 1952, University of California, Santa Barbara; M.A. 1953, Ph.D. 1962, University of California, Berkeley.

MOSKOVITZ, SARAH E. (1969) Professor of Educational Psychology
B.A. 1952, M.A. 1964, California State University, Los Angeles; Ph.D. 1976, New York University.

MOSS, SAMUEL (1966) Associate Professor of Psychology
B.A. 1956, Ph.D. 1960, University of California, Los Angeles.

MUDI, CHARLES S. (1953) Professor of Communication Studies
A.B. 1942, St. Louis University; M.A. 1948, Ph.D. 1953, Louisiana State University.

MUNN, HENRY L. (1959) Professor of Marketing
B.S. 1948, DePaul University; M.B.A. 1949, Ph.D. 1957, University of Chicago.

MUNRUE, PHILIP M. (1958) Associate Professor of Kinesiology

MURILLO, NATHAN (1968) Clinical Psychologist; Professor, Counseling Center
B.A. 1958, M.A. 1959, University of Texas; Ph.D. 1965, University of Houston; Licensed Psychologist, California.

NATALE, GIOVAN G. (1968) Professor of Physics and Astronomy

NEVE, RUTH (1966) Director, Financial Aid Special Projects
B.A. 1935, University of Western Ontario; M.A. 1950, University of Southern California.

NEWKIRK, JUNE (1971) Associate Professor of Special Education
B.A. 1936, Bradley University; M.A. 1937, University of Illinois.

NILES, HENRY B. (1964) Professor of Business Law
M.A. 1948, University of Chicago; M.A. 1955, Claremont Graduate School; J.D. 1958, University of California, Los Angeles.

NOONAN, GLEN D. (1960) Professor of Political Science
A.B. 1944, California State University, San Francisco; M.A. 1946, Stanford University; Ph.D. 1951, University of California, Berkeley.

NYHAN, ESTER (1962) Professor of Engineering
B.S. 1951, M.S.M.E. 1952, Ph.D. 1960, University of Minnesota; Professional Engineer, State of California.

NYQUIST, H. LEROY (1962) Professor of Chemistry
B.S. 1951, Montana State College; Ph.D. 1956, University of California, Los Angeles.

O’DONELL, JAMES (1976) Dean, College of Extended Learning; Professor of Secondary Education

OLIPHANT, ROBERT T. (1959) Professor of English

OSLO, CARL (1961) Professor of Chemistry
B.S. 1950, M.S. 1952, University of San Francisco; Ph.D. 1963, University of Southern California.

OLSON, ROY E. (1950) Professor of Physics and Astronomy
A.B. 1951, Ph.D. 1958, University of California, Berkeley.

O’NEIL, JACOB (1966) Professor of Political Science
B.A. 1962, California State University, Long Beach; M.A. 1964, Ph.D. 1966, University of Iowa.

PECKHAM, EDMOND T. (1967) Vice President for Student Affairs and Dean of Students

PEREZ-SANDOVAL, RAFAEL (1969) Professor of Chicana Studies

PHLIP, CATHERINE M. (1967) Professor of English

PINNEAU, SAMUEL (1962) Professor of Psychology
A.B. 1944, M.A. 1950, Ph.D. 1952, University of California, Berkeley.

PIROJIKOFF, LEON (1961) Professor of Psychology
B.A. 1951, University of California, Berkeley; M.S. 1955, University of Washington; Ph.D. 1958, University of Texas.

PITT, LEO (1962) Professor of History

PLASBERG, ELAINE (1961) Professor of English
A.B. 1952, California State University, San Francisco; M.A. 1957, Ph.D. 1961, Boston University.

POHLO, ROSS H. (1963) Professor of Biology
B.S. 1954, University of Illinois; M.S. 1958, University of Arkansas; Ph.D. 1961, University of Chicago.

POLOCK, EDMUND G. (1961) Professor of Biology
B.S. 1953, Wilkes College; M.A. 1957, University of Virginia; Ph.D. 1961, University of California, Berkeley.

PORTER, JOHN J. (1965) Professor of Modern and Classical Languages and Literatures
B.A. 1935, California State University, San Jose; M.A. 1964, Middlebury College; Ph.D. 1970, University of Southern California.

PORTERFIELD, O. V. (1959) Professor of Elementary Education
B.S. 1937, East Central State College, Oklahoma; Ed.M. 1942, Oklahoma University; Ed.D. 1958, Tulsa University.

POTTER, RICHARD L. (1961) Professor of Biology
B.A. 1950, Reed College; M.S. 1952, Washington State College; Ph.D. 1957, University of Rochester.

POTTS, DONALD H. (1965) Professor of Mathematics
B.S. 1943, Ph.D. 1947, California Institute of Technology.

PRABHAKAR, JAGDISH C. (1978) Professor of Engineering
B.S. 1946, M.S. 1948, Panjab University; M.S. 1964, Illinois Institute of Technology; Ph.D. 1969, Southern Methodist University.

PRATS, JAMES (1965) Professor of Political Science
B.A. 1949, M.A. 1950, University of Missouri; Ph.D. 1963, University of California, Berkeley.

PRICE, MARY SCIACCA (1965) Senior Assistant Librarian, Technical Services
B.A. 1943, Berry College; M.L.S. 1965, University of California, Los Angeles.
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PUNDEFF, MARIN V. (1959)  Professor of History  A.B. 1949, University of Southern California; A.M. 1955, George Washington University; Ph.D. 1958, University of Southern California.

RANDALL, MARGARET B. (1963)  Associate Professor of Theatre  B.A. 1960, M.A. 1962, California State University, Northridge.


RAU, DONALD L. (1953)  Professor of Accounting and Management Information Systems  B.A. 1947, M.B.A. 1949, Stanford University; C.P.A.

READ, DONALD L. (1973)  Librarian, Reference and Instructional Services  B.A. 1950, University of California, Berkeley; M.S. 1955, Columbia University; M.A. 1971, University of Southern California.


REID, PHILIP (1968)  Professor of Communication Disorders and Sciences  A.B. 1957, California State University, Los Angeles; M.A. 1960, Ph.D. 1966, University of Southern California.

REILLY, MARY LOUISE (1967)  Professor of Music  B.S. 1944, St. Mary’s College; M.A. 1956, Immaculate Heart College.

RESOVICH, THOMAS (1962)  Professor of History  B.S. 1955, M.S. 1956, Kansas State College; Ph.D. 1966, University of Wisconsin.

RICH, GEORGE Q. (1959)  Professor of Kinesiology  B.S. 1949, University of Colorado; M.S. 1951, University of Utah; Ed.D. 1959, University of California, Berkeley.


ROE, ARNOLD (1964)  Professor of Engineering  B.S. 1947, New York University; M.S. 1959, Ph.D. 1964, University of California, Los Angeles; Professor, University of California, Los Angeles.


SALKOW, SIDNEY (1973)  Professor of Radio-TV-Film  B.A. 1930, City College of New York; M.F.A. 1976, University of Southern California.

SALPER, DONALD R. (1964)  Professor of Communication Studies  B.A. 1951, University of Minnesota; M.A. 1952, Northwestern University; Ph.D. 1964, University of Minnesota.


SANDERS, MARK S. (1971)  Professor of Psychology  B.A. 1966, California State University, Northridge; M.S. 1968, Ph.D. 1971, Purdue University.


SANDLER, MYRON K. (1959)  Professor of Music  Graduate Diploma 1942, Juilliard Graduate School; B.A. 1952, University of California, Los Angeles.


SCHREINER, ERNEST M. (1970)  Professor of Management Science and Professor of Mathematics  B.A. 1951, Reed College; M.S. 1954, University of Washington; Ph.D. 1960, University of California, Los Angeles.

SCHREINER, MARY JEAN (1967)  Professor of Finance, Real Estate and Insurance  B.S. 1962, M.S. 1965, Kansas State University; D.B.A. 1969, University of Colorado.


SCHLOSSER, WILLIAM E. (1955)  Professor of Theatre  B.Ed. 1946, Chicago Teachers College; M.A. 1948, Northwestern University; D.Ed. 1955, University of Oregon.


SCHIER, RUTH (1969)  Professor of Art  B.A. 1962, California State University, Northridge; M.F.A. 1970, University of Southern California.


SEGEL, RUTH S. (1960)  Associate Professor of Psychology  B.A. 1946, Brooklyn College; M.A. 1947, Western Reserve University; Ph.D. 1951, University of Pittsburgh; Licensed Psychologist, State of California.


SHANKS, JAMES L. (1969)  Associate Professor of Elementary Education  B.A. 1954, University of Buffalo; Ed.D 1969, University of California, Berkeley.

SHERMAN, VIRGINIA (1960)  Professor of Secondary Education  B.A. 1943, University of California, Los Angeles; Ph.D. 1953, University of Southern California; Licensed Psychologist, California.

SHERMAN, W. G. (1960)  Professor of Management Science and Professor of Mathematics  B.A. 1957, Reed College; M.S. 1954, University of Washington; Ph.D. 1960, University of California, Los Angeles.


THIEL, RICHARD (1968) ................................. Professor of Educational Psychology and Counseling
B.A. 1955, University of Buffalo; Ph.D. 1968, University of Southern California.

THOMAS, WILLIAM C. (1980) ......................... Professor of Educational Leadership and Policy Studies
B.A. 1948, M.A. 1950, Occidental College; Ed.D. 1965, University of Southern California.

THORELL, BERNARD A. (1963) ..................... Professor of Sociology

THORELL, IRENE A. (1961) .......................... Librarian, Cataloging
B.A. 1952, University of Illinois; M.L.S. 1961, University of Southern California.

TOLLEFSON, HOWARD L. (1964) ...................... Professor of Art

TRAPOLD, JEANNE L. (1965) ........................ Professor of Art
B.F.A. 1952, University of Nebraska; M.A. 1954, University of Missouri; Ph.D. 1968, University of California, Los Angeles.

TRUMAN, RICHARD (1968) ............................. Professor of Management Science
B.S.E.E. 1948, Northwestern University; M.S.E.E. 1949, Stanford University;
Ph.D. 1968, University of Southern California; Registered Industrial Engineer,
State of California.

ULICH, FRANCES SHERILL (1956) ................. Professor of Music

VAN SLOOTEN, HENRY (1952) ...................... Professor of English
A.B. 1940, A.M. 1948, Ph.D. 1957, University of Southern California.

VELARDI, ERNEST J. JR. (1957) ...................... Professor of Art

VERNALLIS, MARGARET S. (1970) ................. Clinical Psychologist, Counseling Services
B.A. 1946, M.A. 1948, Ph.D. 1954, State University of Iowa; Licensed M.F.C.
Counselor, California.

VICERO, RALPH D. (1960) .......................... Dean, College of Social and Behavioral Sciences;
Professor of Geography
B.A. 1953, McMaster University; M.S. 1954, Ph.D. 1968, University of Wisconsin.

WALKER, ISABELLE (1973) ............................ Professor of Leisure Studies and Recreation
B.A. 1950, Mills College; M.A. 1971, Ph.D. 1972, University of Southern California.

WALKER, PAUL (1958) ................................. Executive Vice President; Professor of Business Law and Journalism
A.B. 1932, College of the City of New York;
LL.B. 1935, Columbia University; Ed.D. 1960, University of Southern California.

WALLIS, EARL L. (1959) .............................. Professor of Kinesiology

WALSH, ELEANOR A. (1962) .......................... Professor of Kinesiology
B.A. 1949, Pomona College; Ph.D. 1961, University of Southern California;
Licensed Psychologist, State of California.

WATT, GEORGE (1961) ............................... Professor of Office Systems and Business Education

WEBB, ALLEN P. (1978) .............................. Professor of Educational Psychology and Counseling
B.A. 1949, Pomona College; Ph.D. 1961, University of Southern California;
Licensed Psychologist, State of California.

WECKLER, NORA (1955) .............................. Professor of Psychology
B.A. 1937, M.A. 1938, Ph.D. 1941, University of Toronto.

WEDIN, WARREN (1969) ............................. Professor of English
B.A. 1959, M.A. 1964, Brooklyn College; Ph.D. 1971, University of Arizona.

WELTON, GEORGE E. (1972) ......................... Professor of Leisure Studies and Recreation
B.S. 1967, California State University; Los Angeles, M.S. 1969, California State University;
Long Beach; Ph.D. 1972, University of Utah.

WESTON, CHARLES R. (1968) ....................... Associate Professor of Biology
B.A. 1957, University of California, Santa Barbara; Ph.D. 1964, Princeton University.

WHITE, FRANCES P. (1975) ........................... Associate Professor of Family Environmental Sciences
B.A. 1960, Whittier College; M.A. 1968, San Jose State College.

WIGGINS, CLARENCE E. (1958) ..................... Professor of Music
B.S. 1949, M.A. 1953, University of Washington; D.M.A. 1966, University of Southern California.

WILLIAMS, JAMES (1982) ......................... Professor of Finance, Real Estate and Insurance
B.S. 1957, M.S. 1958/Oklahoma State University; Ph.D. 1964, University of California, Los Angeles.

WILLIAMS, ROBERT J. (1950) ....................... Counselor, Counseling Services
B.A. 1947, San Diego State University; Ed.D. 1973, University of Southern California.

WILSON, KENNETH A. (1960) ...................... Professor of Biology
B.A. 1951, Miami University, Ohio; M.S. 1953, University of Hawaii; Ph.D. 1958,
University of Michigan.
WINDSOR, FAITH (1967) ............................. Associate Professor of Political Science
B.A. 1958, University of California, Los Angeles; M.A. 1963, Pennsylvania State University; Ph.D. 1973, University of Southern California.

WIND, CLIFTON C. (1950) ............................. Professor of Educational Leadership and Policy Studies
A.B. 1927, Pomona College; A.M. 1929, Ph.D. 1933, Harvard University.

WIND, IRA (1966) ............................................ Professor of Secondary Education

WINNINGHAM, SAM N. (1960) ..................... Professor of Kinesiology
B.S. 1950, Colorado University; M.A. 1955, Arizona State University; Ph.D. 1966, University of Southern California.

WINNINGHAM, HAMILTON R. (1960) .................... Professor of Physical Education
B.A. 1958, University of California, Los Angeles; M.A. 1959, University of Southern California.

WINNINGHAM, SAM N. (1960) ............................. Professor of Kinesiology
B.S. 1950, Colorado University; M.A. 1955, Arizona State University; Ph.D. 1966, University of Southern California.

WOLD, RUTH (1960) ............................................. Professor of Modern and Classical Languages and Literatures
B.A. 1945, North Texas State University; M.A. 1948, Ph.D. 1956, University of Texas.

WONG, CLARK C. (1980) ............................. Director of Finance and Personnel, University Library; Librarian
B.A. 1960, National Chengchi University, Taiwan; M.A. 1964, University of Nevada; M.A.L.S. 1965, University of Michigan; Ph.D. 1975, University of Colorado.

WOOD, DONALD N. (1970) ............................. Professor of Radio-TV-Film

WRIGHT, E. MURIEL (1963) ......................... Professor of Mathematics
B.A. 1949, M.A. 1950, University of Toronto; Ph.D. 1957, Washington University, St. Louis.

WRIGHT, THOMAS E. (1961) ............................. Professor of English
B.A. 1954, University of Missouri; M.A. 1958, Ph.D. 1963, Washington University, St. Louis.

WURTHMAN, LEONARD B. JR. (1965) ............... Professor of Communication Studies
B.S. 1957, University of California, Los Angeles; M.A. 1959, Louisiana State University; Ph.D. 1968, University of Missouri.

YABLONSKY, LEWIS (1963) ............................. Professor of Sociology
B.S. 1948, Rutgers University; M.A. 1952, Ph.D. 1958, New York University.

YONKER, DOLORES M. (1958) .......................... Professor of Art

YOST, ROBERT C. (1979) ............................. Associate Professor of Marketing
B.S. 1947, M.B.A. 1949, Indiana University; Ph.D. 1963, University of California, Los Angeles.

ZAKARIAN, RICHARD H. (1961) .................... Professor of Modern and Classical Languages and Literatures
A.B. 1949, Bates College; M.A. 1950, Middlebury College; Ph.D. 1960, Northwestern University.

ZUWAYLIF, FADI H. (1960) ......................... Professor of Management Science
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