



Welcome to Cal State, San Bernardino! I'm delighted that you're interested in our campus.

Before you review the catalog, let me tell you a few things about our University. To begin, we're situated on 430 acres of land tucked close to the San Bernardino Mountains. Because of recent growth, we can provide our 16,000 students with new facilities—including over 600 new apartment-style residence hall units and a new College of Social and Behavioral Sciences building—excellent technological capabilities, and a dynamic faculty deeply committed to student learning.

At Cal State, San Bernardino you'll also find small classes—held across the day and evening when you need them. And to promote personal and intellectual development, our students can participate in a rich set of student organizations and attend a diverse array of musical, theatrical, social, cultural, and athletic events. In addition, there's our wonderful Southern California weather and close proximity to a remarkable array of cultural resources as well as mountains and beaches.

If you think Cal State, San Bernardino might be the right University, we'd like to invite you to visit our beautiful campus for a personal tour. And of course, we'll be happy to provide any additional information you need.

If you decide to attend Cal State, San Bernardino, I'll look forward to greeting you!

Albert K. Karnig, President
California State University, San Bernardino

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This catalog represents the University's course descriptions and requirements at the undergraduate and graduate levels. California State University, San Bernardino reserves the right to revise catalog provisions in accordance with official actions of the Board of Trustees of the California State University and other governing bodies. Students are advised to consult the appropriate department, college or office for current information for specific programs. (Also see Changes in Rules and Policies statement on [Page 544.](#)) Supplementary bulletins contain additional information about extended learning and summer programs. The Class Schedule, issued prior to each quarter, lists courses to be offered during that term. The 2002-2003 Bulletin, Catalog of Programs may be purchased at the Coyote Bookstore, California State University, San Bernardino, 5500 University Parkway, San Bernardino, CA 92407-2397.

Inquiries about admission to the University should be directed to the Director of Admissions and Student Recruitment, (909) 880-5200, California State University, San Bernardino, 5500 University Parkway, San Bernardino, CA 92407-2397. Visit the CSUSB Web Page at: <http://www.csusb.edu>

BULLETIN

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CALENDAR

2002-2003

FALL TERM 2002

May 1	Last day to file or refile graduation check for March graduation without payment of late fee
May 20- June 19	Fall Quarter 2002 Priority Registration (see <i>Class Schedule</i> for Priority Group times)
Sept. 9	Admission Day, university open (observed Monday, Dec. 30)
Sept. 11	Beginning of academic year
Sept. 19	Classes begin (Saturday classes begin September 21)
Oct. 2	Late add period ends
Oct. 9	Last day to drop classes without record
Oct. 14	Columbus Day, university open (observed Tuesday, Dec. 31)
Nov. 1	Last day to file or refile graduation check for June graduation without payment of late fee
Nov. 4-25	Winter Quarter 2003 Priority Registration (see <i>Class Schedule</i> for Priority Group times)
Nov. 11	Veteran's Day, university open (observed Friday, Nov. 29)
Nov. 27	Last day of classes (Saturday classes end Nov. 23)
Nov. 28- Dec. 1	Thanksgiving recess, university closed (Library open Nov. 30 and Dec. 1)
Dec. 2-7	Final examinations
Dec. 7	Commencement
Dec. 10	Grades due; end of term
Dec. 24- Jan. 1	Academic recess, campus closed

WINTER TERM 2003

Jan. 2	Last day to file or refile graduation check for September graduation without payment of late fee
Jan. 2	Beginning of winter term
Jan. 6	Classes begin (Saturday classes begin Jan. 4)
Jan. 18-20	Martin Luther King, Jr. birthday, university closed
Jan. 17	Late add period ends
Jan. 27	Last day to drop classes without record
Feb. 3	Last day to file or refile graduation check for December graduation without payment of late fee
Feb. 10- Mar 3	Spring Quarter 2003 Priority Registration (see <i>Class Schedule</i> for Priority Group times)
Feb. 12	Lincoln's Birthday, campus open (observed Dec. 26)
Feb. 24	Washington's Birthday, campus open (observed Dec. 29)
March 17	Last day of classes (Saturday classes end March 15)
March 18-22	Final examinations
March 25	Grades due; end of term
March 24-28	Academic recess

Consult the quarterly Class Schedule for exact dates of registration for Priority Groups, late schedule adjustments, and last date for refund of fees.

SPRING TERM 2003

Mar 31	Cesar Chavez Holiday, university closed
April 1	Classes begin (Saturday classes begin March 29)
April 14	Late add period ends
April 21	Last day to drop classes without record
April 30- May 16	Summer Quarter 2003 Priority Registration (see <i>Class Schedule</i> for Priority Group times)
May 1	Last day to file or refile graduation check for March graduation without payment of late fee
May 19- June 11	Fall Quarter 2003 Priority Registration (see <i>Class Schedule</i> for Priority Group times)
May 24-26	Memorial Day (university closed)
June 9	Last day of classes (Saturday classes end June 7)
June 10-14	Final examinations
June 13-15	Commencement
June 17	Grades due; end of term

SUMMER TERM 2003

June 18	Classes begin, Sessions I and III
June 24	Late add ends Session I
June 25	Last day for refund, Session I
June 30	Last day to drop classes without record, Session I
July 1	Late add ends Session III
July 2	Last day for refund, Session III
July 4-6	Independence Day holiday (university closed)
July 8	Last day to drop classes without record, Session III
July 22	Last day of classes, Session I
July 23-34	Final examinations, Session I
June 28- Sept. 8	Campus closed each Friday, Saturday, and Sunday
July 28	Classes begin, Session II; Grades due, Session I
July 31	Late add ends, Session II
Aug. 4	Last day for refund, Session II
Aug. 5	Last day to drop classes without record, Session II
Aug. 26	Last day of classes, Session III
Aug. 27-28	Final examinations, Session III
Aug. 28	Last day of classes, Session II
Sept. 1	Labor Day holiday (university closed)
Sept. 2	Grades due, Session III
Sept. 2-3	Final examinations, Session II
Sept. 8	Grades due, Session II
Sept. 9	Admission Day, campus open (observed Dec. 30)

FALL TERM 2003

May 1	Last day to file or refile graduation check for March graduation without payment of late fee
Sept. 17	Beginning of academic year
Sept. 25	Classes begin (Saturday classes begin Sept. 27)
Oct. 13	Columbus Day, campus open (observed Dec. 31)
Nov. 3	Last day to file or refile graduation check for June graduation without payment of late fee
Nov. 11	Veteran's Day, campus open (observed Nov. 28)
Nov. 27-30	Thanksgiving recess (Library open Nov. 29 and 30)
Dec. 5	Last day of classes (Saturday classes end Dec. 6)
Dec. 8-13	Final examinations
Dec. 13	Commencement
Dec. 16	Grades due; end of term
Dec. 24- Jan. 1	Academic recess, university closed

For a more detailed calendar of academic dates and deadlines, see the quarterly class schedule. The above calendar is not intended to be construed as an employee work calendar.

QUICK REFERENCE

What

Who

Where

Academic Clubs	Department Offices		
ADA Complaints	Dale West (Human Resources)	SH-110 (909) 880-5138	
Adult Re-Entry Program	Adult Re-Entry Center	SU-130	5253
Advising (Undeclared major)	Academic Services and SAIL (x5921)	UH-380/UH-386	5034
Advising (Declared major)	Department Offices and SAIL		
Appeal of Graduate & Post-Bac Degree Requirement	Appropriate Graduate Coordinator		
Appeal of Undergraduate Degree Requirement	Academic Programs	AD-101	5024
Athletics Events	Athletics Department	HP-112	3001
Audio Visual	Academic Computing	PL-003	5060
Basic Skills (EPT/ELM)	Academic Services	UH-380	5034
CAPI	Alliance for Academic Preparation	UH-380	7623
Clubs and Student Activities	Student Life Office	SU-119	5234
Career Workshops	Career Development Center	UH-329	5250
Changing Majors	Records, Registration and Evaluations	UH-171	5219
Commencement	Academic Affairs Office	AD-101	5024
Complaints Against Faculty	Department Chair or College Dean		
Computer Assisted Instruction	Learning Center	UH-351	5038
Concurrent Enrollment	Records, Registration and Evaluations	UH-165	5216
Coyote ONE CARD	Academic Computing	PL-003	5060
Cross Registration	Records, Registration and Evaluations	UH-165	5216
Discrimination Complaints	Vice President, Student Affairs Office	UH-231	5185
Dropping/Adding Courses after Census (Declared)	College of Major		
Dropping/Adding Courses after Census (Undeclared)	Academic Services	UH-380	5034
E-Mail	Telecommunications and Network Services	PL-028	7281
Educational Opportunity Program (EOP)	EOP Office	UH-395	5042
Financial Aid	Financial Aid Office	UH-150	7800
General Education	Academic Services	UH-380	5034
GE Course Substitutions	Academic Services	UH-380	5034
Grade/Academic Grievance	Associate Dean, Undergraduate Studies	AD-183	5044
Graduate School Information	Graduate Studies Office	AD-127	5058
Graduation Requirement Check	Records, Registration and Evaluations	UH-171	5200
Greek Life	Student Life Office	SU-119	5234
Health Services	Health Center	HC-102	5241
Immigration Problems	International Student Services Office	UH-235	5197
Leave of Absence	Academic Services	UH-380	5034
Non-Academic Grievance	Vice President, Student Affairs Office	UH-231	5185
Off-Campus/On-Line/TV Courses	Office of Distributed Learning	AD-138	7439
Open University Enrollment	Extended Learning	SH-134	5975
Overload Petition: Undergraduate	College Dean/Department Chair		
Overload Petition: Graduate	Appropriate Graduate Coordinator		
Psychological Counseling	Counseling Center	HC-136	5040
Retroactive Withdrawal	Academic Services	UH-380	5034
SAIL (Student Assistance in Learning)	SAIL Office	UH-386	5921
Scholarships	Financial Aid Office	UH-150	7800
Sexual Harassment	Sexual Harassment Advisor	(See Schedule of Classes)	
Simultaneous Enrollment	Academic Services	UH-380	5034
Student Development Programs	Associate Vice President for Student Life	SU-119	5234
Student Assistants Work	Career Development	UH-329	5250
Study Abroad	Rowena Santiago	UH-401.27	5677
Study Skills (USTD courses)	Academic Services/SAIL	UH-380/386	5034/5921
Teaching Credentials	CASE Office	CH-123	5609
Testing, Standardized (GRE,GMAT, EPT/ELM,etc.)	Testing Office	JB-405	5041
Transfer of Credits	Admissions Evaluator	UH-135	5200
Tutoring	Learning Center	UH-351	5038
Waiver and Substitutions of G.E. Requirements	Academic Services	UH-380	5034
Waiver of University Regulations (Graduate)	Appropriate Graduate Coordinator		
Work Study	Financial Aid Office	UH-150	7800
Writing Help	Writing Center	UH-387	5232

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. Today the campuses of the CSU include comprehensive and polytechnic universities and, since July 1995, the California Maritime Academy, a specialized campus.

The oldest campus—San José State University—was founded 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. The 23rd campus, CSU Channel Islands will open in 2002 with freshmen arriving in fall 2003.

Responsibility for the California State University is vested in the Board of Trustees whose members are appointed by the governor. The trustees appoint the chancellor, who is the chief executive officer of the system, and the presidents, who are the chief executive officers 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, or by distance learning from home or work via computer or television. In addition, a variety of teaching and school service credential programs are available. A number of doctoral degrees are offered jointly with the University of California and with private institutions in California.

Enrollments in fall 2000 totalled nearly 368,252 students, who were taught by over 21,225 faculty. The system awards more than half of the bachelor's degrees and 30 percent of the master's degrees granted in California. Some 1.94 million persons have been graduated from CSU campuses since 1960.

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California State University, Bakersfield

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California State University, Channel Islands

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CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

Vision Statement

California State University, San Bernardino will become one of the leading comprehensive universities in the nation, distinctive for its contributions to the understanding of learning and for the creation and study of innovative partnerships to promote educational, social, economic and cultural advancement in the region.

Mission and Goals

The mission of California State University, San Bernardino is to enhance the intellectual, cultural and personal development of its students. Serving inland Southern California, in one of the fastest growing regions in the nation, the university seeks to serve the educational needs of the region and the state by offering a wide range of academic programs and support services. The overall goal is to prepare students to assume leadership roles in the 21st century.

The teaching and learning environment for students is enhanced by close contact with faculty, staff, and administrators in state-of-the-art facilities and through extracurricular activities offered outside of the classroom. In order to provide a truly comprehensive education for its students, the university has built programs and services based upon six objectives:

- Provide a sound program of general education in the arts and sciences for all undergraduates,
- Include experiential approaches to learning for undergraduate and graduate students,
- Foster an open exchange of ideas and views,
- Encourage and support faculty to remain current in the fields that they teach,
- Enrich students' lives outside of class by sponsoring speaker programs, supporting clubs and other organizations, and encouraging a variety of cultural events, and
- Build partnerships with the communities throughout the region in order to identify and solve mutual concerns and problems.

To achieve these aims, the university continues to develop academic programs and services that assist people who use the campus to gain the skills and information that they need to improve their quality of life and to plan for productive futures. The university offers a large number of professional, occupational, and traditional academic programs at both the baccalaureate and master's level, so that new and returning students can gain up-to-date skills and knowledge. To foster excellence and anticipate the needs of our service region, the university has identified six programmatic areas beyond its traditional liberal arts curricula for continued emphasis and expansion:

- Education programs to prepare teachers to serve a multicultural society,
- Applied science and engineering programs to support technology development in southern California,
- Management and administration programs to graduate future business and public agency leaders,
- Health and helping professions to support the burgeoning population in our service area,
- International studies to prepare graduates to function in a truly global community, and
- Fine and performing arts to enrich our lives.

The university seeks also to expand its role as one of the preeminent centers of cultural and intellectual activity in inland Southern California. Faculty, staff, administrators, and students sponsor conferences, institutes, workshops, exhibitions, and other extended learning activities. New programs, enhanced by new facilities, in the arts, information sciences, social sciences, extended education, and athletics will allow the university to offer a greater range of plays, concerts, art exhibitions, sports events, museum exhibitions, speakers, and academic offerings for its students and the community at large.

California State University, San Bernardino recognizes that one of its strengths is the diversity of the university community. As a result, the university has developed curricula and services that affirm the multiculturalism of this region and show the dignity and values that unite all people.

Faculty, administrators, and staff know, too, that the university serves not just traditional full-time students but others who attend part-time because of responsibilities at home and at work. In fact, because many students begin their higher education elsewhere, the university continually updates its transfer agreements with surrounding colleges and universities. Furthermore, to help all students complete their programs of study, the university offers both day and evening classes on campus as well as selected programs at a few off-campus sites, including a center in the Coachella Valley. Additionally, innovative uses will be made of technology to serve its many student populations throughout the Inland Empire.

With outstanding faculty, administrators, and staff from around the nation and the world, the university is fully prepared to instruct and support its diverse student body and to serve the region's intellectual and cultural needs. Through excellence in the pursuit of learning, the university enriches both itself and the communities it serves.

The above Statement of Mission and Goals was approved by the Faculty Senate and President Anthony H. Evans in November, 1993.

Location and History

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

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

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

Inland Southern California

The historic San Bernardino Valley is part of inland Southern California, an area encompassing all of San Bernardino and Riverside counties. The university is within the Riverside-San Bernardino-Ontario metropolitan area and also serves more distant locations in the two counties, the Colorado River communities of Blythe and Needles; the high desert area including Victorville and Barstow; the low desert, Coachella Valley region including Palm Springs and Indio; the mountain communities of Big Bear, Lake Arrowhead and Idyllwild; the Hemet Valley, including Hemet, San Jacinto and Perris.

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Provost and Vice President for Academic Affairs	Louis A. Fernández, Ph.D.
Associate Provost, Academic Programs	Jerrold Pritchard, D.M.A.
Associate Provost, Academic Personnel	J. Paul Vicknair, Ph.D.
Associate Vice President for Assessment and Planning and Dean, Graduate Studies	Sandra Kamusikiri, Ph.D.
Director, McNair Scholar's Program	Pamela Merchant Christian, M.A.
Director, Academic Resources	Olga Morales, M.P.A.
Dean, College of Arts and Letters	Eri Yasuhara, Ph.D.
Associate Dean	Loren Filbeck, D.M.A.
Dean, College of Business and Public Administration	Gordon Patzer, Ph.D.
Associate Dean	Donald Drost, Ph.D.
Associate Dean	John Chaney, Ph.D.
Dean, College of Education	Patricia Arlin, Ph.D.
Associate Dean, Teacher Education	Iris Riggs, Ph.D.
Associate Dean, Administration	Carolyn Eggleston, Ph.D.
Dean, College of Natural Sciences	B. Robert Carlson, Ph.D.
Associate Dean	Gerald Thrush, Ph.D.
Associate Dean	John Craig, Ph.D.
Dean, College of Social and Behavioral Sciences	John Conley, Ph.D.
Associate Dean	Jenny Zorn, Ph.D.
Assistant Dean	Michael LeMay, Ph.D.
Assistant Dean	David Riefer, Ph.D.
Dean, Undergraduate Studies	Milton Clark, Ph.D.
Associate Dean, Educational Support Programs	Tom Rivera, Ed.D.
Director, Advising and Academic Services	Raymond Navarro, M.B.A.
Director, Educational Opportunity Program	Nadine Chavez, M.A.
Director, University Honors Program	Ruth Burke, Ph.D.
Director, Learning Center	Stephen Wentworth, M.A. (Interim)
Director, Precollegiate Academic Development Program	Rebecca Rudd, B.A.
Director, S.A.I.L. Program	Norma Romero, M.A.
Director, Research and Policy Analysis	Walter Hawkins, M.S.W.
Director, Writing Center	Carol Haviland, Ph.D.
Test Officer, Testing	Roberta Sperry, B.A.
Dean, Extended Learning	Jan Jackson, Ph.D.
Associate Dean, Extended Learning	Susan Summers, M.A.
Associate Dean	Jacques Benzakein, Ph.D.
Dean, CSUSB Palm Desert Campus	Peter Wilson, Ph.D.
Associate Dean	Cynthia Flores, Ed.S.
Director, Distributed Learning	James Monaghan, Ed.D.
Director, Institutional Research	Ross Moran, Ph.D.
Assistant Director, Institutional Research	Muriel Lopez, M.A.
Director, Research and Sponsored Programs	Samuel Kushner, M.A.
Executive Director, Research Development and Technology Transfer	Klaus Brasch, Ph.D.
Assistant to the Provost for Diversity Initiatives and Special Projects	Juan Delgado, M.F.A.
Vice President for Information Resources and Technology	William Aguilar, Ph.D.
University Librarian	Johnnie Ann Ralph, M.L.S.
Head, Automation Services	Buckley Barrett, M.S.
Head, Public Services	Les Kong, M.L.S.
Head, Technical Services and Collection Development	Michael Burgess, M.S.
Director, Academic Computing and Media	Michael Ross, B.A.
Director, Administrative Computing Services	Lorraine Frost, M.A.
Director, Common Management Systems	Lorraine Frost, M.A.
Director, Data Center Services	Jeffrey Hicks
Director, Information Security Office	Javier Torner, Ph.D.
Director, Telecommunications and Network Services	C. Donald McKenzie, M.B.A.
Director, Water Resources Institute	Jeffrey Davis, M.S.

Vice President for Administration and Finance	David DeMauro, M.B.A.
Associate Vice President for Financial Operations	William Takehara, M.B.A.
Budget Officer	Deletta Anderson, B.A.
Director of Accounting	Sheryl Pytlak, M.P.A.
Assistant Director of Accounting	Muriel Vita, B.S.
Manager, Payroll Operations	Shirley Dorsey, B.A.
Director of Procurement and Support Services	Kathy Hansen, M.A.
Manager, Duplicating Center	James Gooch
Manager, Receiving/Mail Services	Michael Arredondo
Director, Public Safety	Stephen Nowicki (Interim)
Director, Parking Services	Quentin Moses, M.P.A.
Director, Human Resources	Dale West, B.S.
Associate Director	Karen Logue, M.B.A.
Human Resources Management Specialist	Twilliea Carthen, M.P.A.
Benefits Officer	Diana Gomes
Director, Capital Planning, Design and Construction	William Shum, M.Arch.
Director, Facilities Services	Tony Simpson
Associate Director, Facilities Services	August Hartung, M.S.
Chief Engineer, Heating and Air	LeRoy Wilke
Supervisor, Grounds	Paul Frazier
Chief, Custodial Services	Michael Benton
Environmental Health and Safety Officer	Jon Mohoroski, M.P.A.
Director, Risk Management	Arthur Butler, B.A.
Executive Director, Foundation	David Jones, B.S. (Interim)
Associate Executive Director, Commercial Operations (Coyote Bookstore and Food Services)	Vacant
Business Services Director, Foundation	Beverly Smith, B.A.
Vice President for University Advancement	Vacant
Director, Athletics	Nancy Simpson, M.S.
Director, Alumni Affairs	Pamela Langford, M.B.A.
Administrator, Advancement Services	Mary Moya
Director, Public Affairs	Cynthia Pringle, M.A.
Associate Vice President, University Development	Lynda McNamara, B.A.
Director, Annual Giving	Terri Carlos, M.B.A.
Director, Development for Athletics	Michael Kovack
Director, Development for Coachella Valley Campus	Carol Adney, M.A.
Director, Development for College of Arts and Letters	Vacant
Director, Development for College of Business and Public Administration	Donna Chandler, B.A.
Director, Development for College of Education	Ronna Kivisto, B.S.
Director, Development for College of Natural Sciences	Roberto Redondo, M.P.A.
Director, Development for College of Social and Behavioral Sciences	Lisa Jolly, B.A.
Director, Development for Information Resources and Technology, and Student Affairs	Elva Salgado, B.A.
Senior Director of Development, Transportation and Logistics and	
Associate Director of Water Resources Institute; Director, Planned Giving	Michael Tracey, M.A.
Vice President for Student Affairs	Frank Rincón, Ph.D.
Associate Vice President for Enrollment Management	Robert McGowan, Ph.D.
Director, Records, Registration and Evaluations	Lydia Ortega, M.S.
Director, Financial Aid	Ted Krug, M.A.
Director, International Student Services	Elsa Fernandez, M.A.
Director, Admissions and Student Recruitment	Olivia Rosas, M.A. (Interim)
Director, Upward Bound	Denise Benton, B.A.
Assistant Vice President for Student Development	Howard Wang, Ph.D.
Director, Career Development Center	Patricia Rodgers Gordon, Ed.D.
Director, Housing and Residential Life	Nicholas Erickson, M.P.A.
Director, Services to Students with Disabilities, National Student Exchange	Laurie Flynn, M.A.
Director, Student Union	Helga Kray, M.P.A.
Director, Coussoulis Arena	Carol Dixon, M.B.A.
Director, Student Leadership and Development	Christine Hansen, M.A.
Director, WorkAbility IV	Nicholas A. Erickson, M.P.A.
Director, Children's Center	Meridyth McLaren, M.S. (Interim)
Director, Student Health and Psychological Counseling Centers	John Hatton, Ph.D.
Judicial Affairs Officer	Craig Henderson, Ph.D.

The Academic Colleges and Departments of the University

College of Arts and Letters

Dean	Eri Yasuhara
Associate Dean	Loren Filbeck
Chairs:	
Art	Joe Moran
Communication Studies	Risa Dickson
English	E. Philip Page
Foreign Languages and Literatures	Mirta A. Gonzalez
Music	Robert Dunham
Philosophy	Tony Roy
Theatre Arts	Margaret Perry

College of Business and Public Administration

Dean	Gordon Patzer
Associate Dean	Donald Drost
Associate Dean	John Chaney
Chairs:	
Accounting and Finance	Otto Chang
Information and Decision Sciences	Walt Stewart
Management	Ernesto Reza
Marketing	Vic Johar
Public Administration	David Bellis

College of Education

Dean	Patricia Arlin
Associate Dean, Division of Teacher Education	Iris Riggs
Associate Dean, Administration	Dwight Sweeney
Chairs:	
Educational Psychology and Counseling	Ruth Sandlin
Educational Leadership and Curriculum	Cheryl Fischer
Language, Literacy and Culture	Mary Jo Skillings
Science, Mathematics and Technology Education	Herbert Brunkhorst
Special Education	Jeff McNair

College of Natural Sciences

Dean	Robert Carlson
Associate Dean	Javier Torner
Chairs:	
Biology	Jeffrey Thompson
Chemistry	David Maynard
Computer Science	Arturo Concepcion
Geological Sciences	Alan Smith
Health Science and Human Ecology	Cindy Paxton
Kinesiology	Terry Rizzo
Mathematics	Peter Williams
Nursing	Marcia Raines
Physics	Karen Kolehmainen

College of Social and Behavioral Sciences

Dean	John A. Conley
Associate Dean	Jenny Zorn
Assistant Dean	Michael LeMay
Assistant Dean	David Riefer
Chairs:	
Anthropology	Peter Robertshaw
Criminal Justice	Larry Gaines
Economics	Nancy Rose
Geography	James Mulvihill
History	Cheryl Riggs
Political Science	Mark Clark
Psychology	Stuart Ellins
Social Work	Teresa Morris
Sociology	Elsa Valdez

THE UNIVERSITY ACADEMIC PROGRAM

Now in its fourth decade, California State University, San Bernardino continues its development in new directions.

The college opened in 1965, offering six degree programs to approximately 300 students and focusing on the liberal arts. Currently the curriculum has been expanded to 42 baccalaureate degree programs, 15 teaching credential fields and various options within 21 master's degree programs. Current enrollment exceeds 15,000.

While continuing to emphasize the liberal arts, the university has implemented a number of career-oriented programs, both at the undergraduate and at the graduate levels.

Academic Plan

California State University, San Bernardino operates on the quarter system. The fall, winter and spring terms each consist of 10 weeks of instruction plus a final exam week. Beginning in Summer 2001, the university also offers a state-supported summer quarter allowing students to accelerate their progress and take summer courses at the same fees as during the rest of the academic year. Summer term has overlapping five-week and one 10-week terms.

Most lecture/discussion courses are offered for four units of credit and meet four hours per week. Each unit of credit typically requires two hours of out-of-class study and preparation in addition to the hour of direct instruction in the class. Laboratories and activity-based courses, such as studio art, music, physical education, computer science, etc. meet for 2-3 hours of instruction a week for each unit of credit. Students transferring from a semester system campus should note semester courses are five weeks longer (15 weeks versus 10) so that a quarter unit is equal to $\frac{2}{3}$ of a semester unit. (Thus, three semester units are equivalent to 4.5 quarter units.)

The total number of quarter units required for graduation varies from a minimum of 180 for the Bachelor of Arts degree to 198 units for the Bachelor of Science. Students planning to graduate in four years need to take an average of 15 units per quarter to reach 180 units. Master's degrees require a minimum of 45 units, but some professional degrees, such as the M.S.W. in Social Work and M.S. in Psychology, have licensing and/or accreditation standards demanding up to 90 units.

Colleges of the University

The academic program of the university is offered through five colleges-Arts and Letters, Business and Public Administration, Education, Natural Sciences and Social and Behavioral Sciences-organized into departments.

Degree programs are offered by departments, colleges and interdisciplinary committees. A complete listing of the degrees available at the university may be found on the next two pages.

Baccalaureate Degree Programs

In the 2002-2003 academic year, the university will offer bachelor's degree programs in the following fields (majors):

College of Arts and Letters

Art*	B.A.
Communication*	B.A.
human communication	
intercultural communication*	
mass communication	
public argumentation and rhetoric	
public relations	
English*	B.A.
literature	
creative writing	
linguistics	
French*	B.A.
Music*	B.A.
music education	
specialized music studies	
general music studies	
Philosophy*	B.A.
Spanish*	B.A.
business	
language	
literature	
Theatre Arts*	B.A.

College of Business and Public Administration

Administration	B.A./B.S.
accounting*	
accounting information systems	
business economics	
electronic commerce	
entrepreneurial management	
environmental management	
finance*	
financial computer systems	
information management*	
international business	
management	
management science	
marketing*	
operations management*	
public administration*	
real estate*	
transportation and logistics	

College of Natural Sciences

Biology*	B.A./B.S.
pre-med	
Chemistry*	B.A./B.S.
biochemistry	
ACS certified	
Computer Science*	B.S.
Geology*	B.A./B.S.
environmental geology	
Health Science*	B.S.
community health education and promotion	
environmental health science	
health administration and planning	
school health	
Kinesiology*	B.S.
exercise science	
pedagogy	
pre-physical therapy	
Mathematics*	B.A./B.S.
Nursing	B.S.

Nutrition and Food Sciences*	B.S.
Physics*	B.A./B.S.
applied physics*	

College of Social and Behavioral Sciences

Anthropology*	B.A.
Criminal Justice*	B.A.
paralegal studies*	
Economics*	B.A.
political economy	
Geography*	B.A.
geographic analysis-spatial technical	
History*	B.A.
Political Science*	B.A.
Psychology*	B.A.
Social Sciences	B.A.
Sociology*	B.A.
social work	

Interdisciplinary Programs

American Studies	B.A.
Environmental Studies*	B.A.
Human Development	B.A.
child development	
adult and aging development	
life-span development	
Human Services	B.A.
Liberal Studies	B.A.
non-teaching	
Spanish studies	
Special Major	B.A.
Vocational Education	B.S./B.V.E.

* program also has a minor available

Graduate Programs

In the 2002-2003 academic year, the university will offer master's degree programs in the following fields:

Art	M.A.
Biology	M.S.
Business Administration	M.B.A.
accounting	
corporate management	
entrepreneurship	
executive	
finance	
management and human resources	
management of conflict	
information management	
marketing management	
operations management	
Communication Studies	M.A.
integrated marketing communication	
Computer Science	M.S.
Counseling and Guidance	M.S.
Criminal Justice	M.A.
Education, with options in:	M.A.
bilingual/cross-cultural education	
career and technical education	
curriculum and instruction	
environmental education	
health education	
instructional technology	
kinesiology	
language, literacy and culture (primary language)	
middle grades	
reading/language arts	
English for secondary teachers	
history for secondary teachers	

Spanish for secondary teachers special education teaching English to speakers of other languages	
Educational Administration	M.A.
English Composition	M.A.
English composition	
English literature	
teaching English as a second language	
Health Services Administration	M.S.
Interdisciplinary Studies	M.A.
integrative studies	
e-marketing communication and new media	
Mathematics	M.A.
National Security Studies	M.A.
Nursing	M.S.
school nurses	
Psychology	M.A.
general psychology	
life-span psychology	
child development	
Psychology	M.S.
clinical/counseling psychology	
industrial/organizational psychology	
Public Administration	M.P.A.
Rehabilitation Counseling	M.A.
Science	M.A.T.
Social Sciences	M.A.
Social Work	M.S.W.

Programs Under Development

The university is planning to offer the following programs in the future pending official authorization by the CSU Chancellor's Office.

Degree	Contact
English, M.A.	College of Arts and Letters
Music, M.A.	College of Arts and Letters
Physical Education, M.A.	College of Natural Sciences

Class Size

A distinctive feature of the San Bernardino plan is the attempt to offer the majority of courses in a small lecture/discussion/seminar format. Currently approximately 70 percent of the courses are taught in this arrangement. This small class size increases the possibilities for discussion and for student-faculty contacts both within and outside the classroom.

To maintain the small class as the norm requires that some proportion of courses be offered in an intermediate size (enrollment of 30 to 72) or in a large-lecture format (maximum enrollment of 250).

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

Course Numbering System

1-99	<i>Nondegree-applicable credit.</i>
100-299	Lower-division courses designed primarily for freshmen and sophomores. <i>Graduate credit is not allowed.</i>
300-599	Upper-division courses of junior and senior level; graduate credit may be awarded if course is accepted in a specific graduate program.
600-699	Courses for postbaccalaureate and graduate students only. <i>May not be taken by undergraduates.</i>
X1000-X9999	Courses offered through extension only. <i>Credit not degree applicable.</i>
IP100-IP699	Courses taken by students in the International Programs.
e300-e699	Credit earned in a continuing education program for residence credit pursuant to an external degree program.

Full-Term Course Credits

Most courses at California State University, San Bernardino carry four quarter units of credit; some carry six units; some two units; and a few variable credit. Course credits are indicated in the course descriptions in this catalog. Since each unit of credit presumes one hour of class time and two hours of preparation, a typical four-unit course would require a minimum of 12 hours per week of the student's time. For purposes of comparison with other colleges, a four quarter-hour course is equivalent to a 2.66 semester-hour course.

Faculty Office Hours

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

Accreditation

California State University, San Bernardino is accredited by the Western Association of Schools and Colleges, the official accrediting body for institutions of higher learning in the West. The teaching credential programs are approved by the California State Board of Education and California Commission on Teacher Credentialing.

The following professional programs have received specialized approval or accreditation from organizations recognized by the national Council on Postsecondary Education:

- Administration (BA, BS, MBA)-AACSB International, the Association to Advance Collegiate Schools of Business
- Art (BA)-National Association of Schools of Art and Design
- Chemistry (BS)-American Chemical Society
- Computer Science (BS)-Computer Science Accreditation Commission of the Computing Sciences Accreditation Board
- Nursing (BS)-National League of Nursing

Nutrition and Food Sciences (BS)-American Dietetics Association (Plan V, Didactic Program in Dietetics
 Public Administration (MPA)-National Association of Schools of Public Administration and Affairs
 Rehabilitation Counseling (MA)-Council on Rehabilitation Education
 Social Work (MSW)-Council on Social Work Education

University Honors Program

The University Honors Program stands for an education that will give each student the opportunity to explore ideas and principles underlying the major areas of modern knowledge, the understanding that learning is a continuous lifetime process, and the courage and enthusiasm to participate in the creation of a better world. This program offers integrated courses and other enrichment opportunities for highly-motivated students who seek an intellectual challenge. Most honors courses fulfill the general education requirements which all students at the university must meet.

Students who have shown scholastic ability, intellectual promise, and creativity are encouraged to apply for the program. Further information about the Honors Program can be obtained through the Office of the Dean of Undergraduate Studies, University Hall, Room 368, 880-5032.

Phi Kappa Phi

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

Gamma Lambda of Phi Beta Delta

Phi Beta Delta, founded in 1986, is the first U.S. honor society dedicated to recognizing individuals who have demonstrated scholarly achievement in the areas of international education and exchange. These individuals include: international (visa) students who have demonstrated high scholastic achievement at our university; U.S. students who have completed studies abroad in approved exchange programs with our university; distinguished international faculty at California State University, San Bernardino; distinguished CSUSB faculty and staff who have been involved in recognized international endeavors (i.e. research, teaching, program development and service). The Gamma Lambda Chapter at California State University, San Bernardino is a charter chapter of the national organization.

Palm Desert Campus

Residents of the Coachella Valley and surrounding communities can now complete a B.A., M.A. or teaching credential program without driving long distances. Cal State, San Bernardino opened a satellite campus at College of the Desert in fall of 1986, and the two institutions are working in partnership to provide affordable higher education. College of the Desert provides freshman and sophomore-level course work,

while the university's Palm Desert Campus offers junior, senior and graduate level classes in a variety of programs. Degree and credential programs which can be completed in their entirety at the Palm Desert Campus include the following:

- Administration (B.A.)
- Marketing
- Administration (B.S.)
- Accounting
- Information Management
- Business Administration (M.B.A.)
- Criminal Justice (B.A.)
- Education (M.A.)
- Instructional Technology
- Reading/Language Arts
- Special Education
- Teaching English as a Second Language
- Educational Administration (M.A.)
- English (B.A.)
- Liberal Studies (B.A.)
- Multiple Subject (Credential)
- Public Administration (M.P.A.)
- Psychology (B.A.)
- Single Subject (Credential)

The Palm Desert Campus is on the quarter system, and students can enroll either exclusively in Coachella Valley, or can combine San Bernardino and Palm Desert classes. Admissions information, course registration, academic advising, and a variety of student services are available at the satellite campus.

The Palm Desert Campus is located at its permanent facility at 37-500 Cook Street, Palm Desert. Daytime, evening and weekend classes are offered. The campus is equipped with state-of-the-art technology, including interactive video conferencing. For further information, please call the center at (760) 341-2883.

Victor Valley College Center

CSUSB's regional center (High Desert Teacher Education and Development Center) offers upper division, credential, graduate and extended learning programs for the convenience of students living in the High Desert. Courses are available on site, by compressed video from the main campus or the Coachella Valley Campus and on-line. Admission and financial aid information, registration, academic advising and library access are also available locally. CSUSB utilizes classrooms, computer labs and a teleconference classroom on the VVC campus. Students enrolled in courses offered by CSUSB receive a Coyote OneCard or Coyote Remote Access Card to allow access to library and data base resources through the Internet from CSUSB. In addition, students receive a Victor Valley ID card to allow access to VVC computer labs, library, bookstore and food services. Courier service is available to VVCC from the main campus and CVC. VVCC is located at 184 Bear Valley Road, Victorville. While CSUSB operates on a quarter system, VVC operates on a semester system. Quarterly schedules and additional information are available at <http://odl.csusb.edu>.

Palo Verde College Center

CSUSB's regional center on the Palo Verde College campus offers upper division, credential and graduate courses and programs for the convenience of students living east of the Coachella Valley Campus. Courses are available by compressed video from the main campus or the Coachella Valley Campus and on-line. Admission and financial aid information, registration, academic advising and library access are also available locally. Students enrolled in courses offered by CSUSB receive a Coyote Remote Access Card to allow access to library and data base resources through the Internet from CSUSB. Students are also allowed access to the PVC computer lab, library and bookstore. There are no parking fees at PVC. PVCC is located at 811 West Chanslorway, Blythe. While CSUSB operates on a quarter system, PVC operates on a semester system. Quarterly schedules and additional information are available at: <http://odl.csusb.edu>.

Distributed Learning

The Office of Distributed Learning (ODL) provides coordination and oversight of a multitude of distributed learning activities on campus, including state-supported degree programs as well as technology-based extension courses and activities.

The concept of distributed learning implies a system through which the campus can more fully "distribute" its academic resources to its diverse and broad-based population, whether at a distance or simply bound by time constraints. Distributed learning techniques engage students more actively (or interactively), and focus on helping students achieve class objectives via a number of state-of-the-art technologies, including compressed video, satellite, cable, Internet, and on-line delivery formats.

In addition, courses taught off campus at remote sites are coordinated by the Office of Distributed Learning.

ODL is coordinating a five-year Title V Grant from the U.S. Department of Education. This grant will establish a distributed learning network that will connect CSUSB to the ten community colleges in the San Bernardino and Riverside Counties. Each community college will house a regional learning center for better articulation of student services and programs.

Because CSUSB has been designated as an Hispanic Serving Institution (HSI), the grant also will provide funding for the campus endowment to increase the number of scholarships to students in need.

For more information on course offerings, professional development for faculty or programs offered by other CSU campuses, contact the ODL at 880-7439 or at the Web site: <http://odl.csusb.edu> or toll free at 1-877-907-0079.

Special Courses

More specific information on the special courses described below can be obtained from the Office of Academic Programs or the appropriate colleges and departments.

Comprehensive Examinations. Students now have limited opportunities to spend a full term out of the classroom while preparing for comprehensive examinations that serve as alternatives to regular instruction. Comprehensive examinations are currently available in psychology and sociology.

Cooperative Education. The university is developing ways in which students may earn course credit through academically related work experience. Currently available are internship courses in accounting, anthropology, art, biology, chemistry, communication, computer science, criminal justice, economics, English, finance, French, geography, geology, health science, history, human development, humanities, information management, management, management science, marketing, operations management, philosophy, physics, public administration, paralegal studies, political science, psychology, sociology/social work, Spanish, theatre arts and women's studies.

Self-Paced Courses. An alternative mode of instruction, developed for a few courses, enables students to set their own learning pace. ANTH 335 and SSCI 215 are conducted on an independent study basis made possible through the use of study guides, video tapes and other instructional resources.

On-Line Courses. Online courses and web/classroom courses are identified as such in the schedule of classes by department and in the distributed learning section. Various departments in all colleges offer courses. Online courses are taught completely on the Internet and are not assigned classroom space. Web/classroom courses are assigned classroom space and meeting times range from once per quarter to weekly, accompanied by significant online materials. Students taking on-line courses should consult the Distributed Learning website at <http://odl.csusb.edu> for minimum hardware and software requirements for taking any courses on the Internet.

Facilities

The campus of California State University, San Bernardino blends modern facilities with wide expanses of well maintained landscapes, and panoramic views. As such, the Pfau Library Mall has undergone extensive new landscaping, providing a beautiful, multifunctional, open space setting to enhance university life.

The 430-acre campus features more than 33 fully accessible and air-conditioned buildings. In addition to classrooms and laboratories for course work in the arts, letters and sciences, the university has a number of rather distinctive facilities, such as simulation laboratories, a modern instructional television studio lab, an electronic music studio, glass blowing facilities and state-of-the-art self-instructional computer laboratories located in each of the major instructional buildings.

The university, experiencing an enrollment-driven expansion, enhanced the physical plant with the University Hall building, opening its doors in the fall of 1991, and the Foundation Building completed in winter of 1992.

In response to a demand for more facilities, completed construction includes the Jack H. Brown Hall building which houses the College of Business and Public Administration, and the Departments of Computer Science, Mathematics and Psychology.

The Student Union addition opened its doors in fall 1993, providing space for a new Pub, multipurpose room, lounges, meeting rooms, and Associated Student offices. Also, a large addition to the Coyote Bookstore was opened in fall, 1993.

The campus expansion also includes the John M. Pfau Library addition, doubling the current building floor space,

which opened in Fall 1994. Besides greatly increasing library space, the building houses the Information Resources and Technology Division which is comprised of the Departments of Academic Computing and Media, Administrative Computing Services, Data Center Services and Telecommunications and Network Services as well as the Pfau Library. This addition also houses several self-instructional computer labs as well as professional development labs.

In winter, 1995, the new Health/PE/Classroom/Faculty Office Complex opened with a 5,000-seat gymnasium and also provides three basketball cross-courts, a dance studio, sports medicine room, a weight training room, an outdoor twenty-five meter competition pool, and additional outdoor facilities. The facility houses Athletics, the Nursing, Health Science and Human Ecology, and Kinesiology Departments, with additional lecture space and self-instructional computer labs.

Dedicated in fall, 1995, the Yasuda Center for Extended Learning, a one-story classroom and conference facility provides five classrooms, a multipurpose room, a language lab, two computer labs and a student lounge.

The Visual Arts Center and Robert V. Fullerton Museum opened its doors in 1996 to a University Gallery with supporting storage rooms and workrooms, a 150-student lecture auditorium, teaching labs, seminar classrooms, 25 faculty offices, and self-instructional computer graphic, video and photographic studios for the College of Arts and Letters/Visual Arts Department.

The Corporation Yard/Administrative Services addition was completed in January 2000, providing much needed shops, warehouses, and administrative offices in the Departments of Duplicating, Receiving, Mail Services, Physical Planning and Development, Physical Plant, Environmental Health and Safety, and Public Safety/Parking Services.

A new building for the College of Social and Behavioral Sciences is underway and opening is anticipated in 2002 as well as a Natural Science Annex in 2003. In addition, feasibility studies were completed in 1995 justifying two additional building projects, a College of Education Building and a University Theatre/Creative Arts addition and renovation.

University Library

The mission of the Pfau Library is to meet the information needs of its users, both in paper and electronic formats, both inside and outside its walls, and to continue to support curricular and research needs. The Pfau Library consists of a general collection of 720,000 books and bound periodicals. The Library subscribes to more than 2,400 periodicals, newspapers, and other serial publications in paper format and more than 15,000 periodical titles on-line offering full text and/or abstracts. The book collection is further augmented by musical scores, maps, microformat materials, curriculum materials, CD-ROM networks, and electronic databases. The Library's card catalog is a computerized catalog, HORIZON, which provides web-based workstations. Remote access to on-line databases is available. Two electronic, on-line bibliographic instruction rooms provide bibliographic content training for students. As a depository for California state documents, the Library regularly receives state publications. In 1999 the Pfau

Library was designated as a United States Government Documents depository. Reciprocal borrowing agreements with other area libraries further enhance the availability of material.

All materials are easily accessible to students. An open shelf arrangement of the collection gives users convenient access to Library materials. The Library occupies the first, second (in the Addition only), third, fourth and fifth floors and parts of the basement of the Pfau Library Building. Special facilities include photo-duplicating service, micro-forum readers, map room, media facilities, individual study carrels (some with power to accommodate laptop computers), group study rooms, a curriculum collection and seating for about 1,200 users. Individual or class instruction in Library usage is available upon request. Resource handouts are available at the Reference Desk.

Visit the Library home page at <http://www.lib.csusb.edu> and review library resources, services, and "links" to other libraries.

Academic Computing and Media

Academic Computing and Media provides the campus community with a wide variety of technological services from instructional computing resources to computing and multimedia consultation as well as professional development courses.

The ACM self-instructional labs, which are located in the "wedge" side of the Library, have over 150 computers in both Mac and Windows platforms. These provide access to the Internet and the Microsoft Office Suite of software applications. There are also computers with special capabilities such as video editing applications and Assistive Technology software for those with disabilities. The Assistive Computing Resource Center is located within the Student Technology Support Center in PL-1108. Both areas have professional staff and student consultants available for training and assistance in various software applications including email, the Internet, Microsoft's Office Suite software and others. Plus, for those seeking their master's degree, there is assistance in thesis formatting.

ACM's Media Services area provides audio/video equipment and support for the academic campus and has assisted in the creation of "smart" classrooms by adding LCFD projectors, computers, VCRs, speakers and screens to classrooms across the campus to enhance the learning experience. Some of the other services offered are micro teaching rooms, video viewing or checkout, and the sale or checkout of Campus Contract software.

The Professional Development and Multimedia lab is an excellent resource for faculty and staff providing consultation, training classes as well as one-on-one assistance. Consultation and assistance is an integral part of ACM, including the Campus Web Master giving assistance and consultation in the development of department web sites. The Multimedia area has created and consulted in interactive CDs and videos. Teleconferencing and video conferencing is another facet of ACM, along with the facilitation of Distributed Learning classes. ACM also administers the Campus Photographer and the Coyote One Card. For more information check our home page at <http://acm.csusb.edu>.

Administrative Computing Services

Administrative Computing Services' (ACS) mission is to develop software tools to enhance and support the learning experience of campus constituents through the deployment of technology. ACS provides support for all university enterprise administrative software applications. Currently, the Student Information System (SIS+), Student Aid Management System (SAMS), PeopleSoft HRMS and FIS (Human Resources and Financials), Degree Audit Record System (DARS), and the Development System (Cal State Advance) are all managed by the department. Additional applications, such as the voice response system (TRACS), WebReg, and web applications located at URL: <http://info001.csusb.edu> are maintained and enhanced by the ACS analyst/programmers.

In addition to maintaining existing applications, the department recently implemented the CSU Common Management Systems (CMS) initiative which replaced some administrative systems with PeopleSoft applications.

CMS Office. The CMS project involves the implementation of PeopleSoft, an integrated software solution for the administration of Human Resources, Financials and Student Administration across the CSU campuses. The campus CMS Office is responsible for managing the campus implementation including: overall planning, budgeting, and coordination of project activities with the various campus project teams and affected organizations. The human resources and financials modules went live in April 2001. Work will begin on student administration in 2004.

Additional information about the CMS project can be found on the website: <http://cms.csusb.edu/>.

Data Center Services

Data Center Services (DCS) is responsible for the system administration and maintenance of the hardware and software environment supporting all administrative computing systems, ensuring uninterrupted, twenty-four hour, seven day operation of all systems. These services include software installation, configuration, and maintenance; file backup and recovery; computer generated media and distribution; tape processing; and optical scanning services. DCS functional areas of responsibility include: Computer and Network Operations, Production Support, Systems Software Support, IRT Support Center, Security, and Disaster Recovery. For more information, check out our home page at <http://dcs.csusb.edu> or <http://helpdesk.csusb.edu>.

Telecommunications and Network Services

Telecommunications and Network Services (TNS) provides service, design, and system management of the voice, data and video communications for the campus. This includes telephones and telephone lines, voice mail processing, network management, design and consulting services, video distribution and electronic mail services. In addition, real-time compressed video links are available to classrooms located off campus to assist in the university's mission of providing service to the surrounding communities. For more information, check out our home page at <http://tns.csusb.edu>.

Scheduling of Classes

Most four-unit courses meet for 200 minutes per week. Three basic plans are used in scheduling classes: three meetings per week (usually Monday-Wednesday-Friday), two meetings per week or one meeting. Principal exceptions occur among laboratory, activity and studio courses and courses which carry less than four units of credit.

The two-period, two-day-per-week format is utilized for Tuesday-Thursday classes and most late afternoon and evening courses; the single four-hour period format has been found most appropriate for certain evening and weekend classes. The university attempts to maintain accurate information about changing student needs and to adjust its class schedule accordingly.

Late-Day and Evening Classes

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

Degree Completion Programs for Part-Time Students

Increasing opportunities are being developed for part-time students to complete baccalaureate and master's degree programs by attending late-day classes, as well as Friday night and weekend courses with compressed schedules.

Presently offered in the late afternoon and evening is a sufficient range of upper-division course work to complete a major in administration, criminal justice, economics, English, geography, health science, history, human development, humanities, human services, liberal studies, mathematics, nursing, psychology, social sciences, sociology, Spanish and vocational education. At the graduate level, master's degree programs are available in business administration, public administration, biology, education, rehabilitation counseling, criminal justice, English composition and health services administration.

Students who wish to pursue a late-day degree-completion program in other fields should consult with the department of their proposed major regarding the availability of required courses and then apply for admission to the university in the usual manner.

Institutes

The university sponsors the following institutes which are interdisciplinary in nature and are comprised of faculty from a number of different schools.

Institute for Applied Research and Policy Analysis. Co-directors, Shel Bockman, Department of Management, 880-5733, and Barbara Sirotnik, Department of Information and Decision Sciences, 880-5729. Established to meet the information needs of policy and decision makers in the Inland Empire, conducting applied business, social and public policy research, and offering research and related consulting services to the community, CSUSB faculty and centers on the CSUSB campus.

Institute for Applied Supercomputing. Co-directors, Yasha Karant, Department of Information and Decision Sciences, 880-5372 and Kay Zemoudah, Department of Computer Science, 880-5348. Established to promote, develop, and deploy the uses of high performance computing, including high speed communications, visualization, large scale data stores, and virtual reality, to the intellectual needs of the university and the community.

International Institute. Co-directors: Rosalie Giacchino-Baker, College of Education and Elsa Ochoa-Fernández, Director, International Student Services. Established to lead the campus' globalization process by collaborating with university and community partners to develop, identify funding for, and promote academic programs, activities, and services that meet the international needs of our university and region and that make contributions to our global community.

Institute for Criminal Justice Research. Director, Dale Sechrest, Department of Criminal Justice, 880-5506. Established to conduct research, training, and service activities in the area of criminal justice.

Institute for Science Education. Director, Herb Brunkhorst, Department of Science, Mathematics and Technology, 880-5613. Established to promote the improvement of science education in addressing the needs for professional preparation in the sciences and scientific literacy for citizenship and to promote the utilization of science education as an interface between science and society.

Water Resources Institute. Director, Jeffrey Davis. Created in 1999 as an interdisciplinary center for research, policy analysis and education. Programs include collections of library resources and archives, research opportunities, an annual conference, quarterly speakers on specific water related topics, K-12 water education programs, development of water related academic programs, environmental science teacher education, conflict mediation, and an interdisciplinary water resources journal.

In addition, the WRI works with local water and government agencies to provide internship opportunities for students, to provide opportunities for students to network with water agencies and other special districts, and to educate students on water resources issues. The WRI is in the process of developing a scholarship program for CSUSB students interested in pursuing undergraduate and graduate degrees in water-related programs.

Many of these programs require the help of student assistants, particularly in the areas of computer science, history, geology and geography. Students are encouraged to learn more about the WRI from its web site, wri.csusb.edu, or at the WRI Office in the fourth floor of Pfau Library.

Centers

Individual academic schools sponsor the following centers on campus. For further information, contact the director listed.

Center for the Advancement of Second Languages in the Inland Empire. Director, Mirta Gonzalez, Department of Foreign Languages and Literatures, 880-5849. Promotes the study and dissemination of second languages in the Inland Empire through workshops, translator and interpreter services, curriculum development, conferences and seminars.

Center for Global Management. Director, Mo Vaziri, Department of Accounting and Finance, 880-5718. Coordination of students and faculty exchange programs, facilitating research projects in international management, and supporting the College of Business and Public Administration in its efforts to sensitize students to the growing globalization of business, all reflect the varied focuses of the CGM.

Inland Empire Center for Entrepreneurship. Co-directors, Pat McInturff and Jeanne King, College of Business and Public Administration, 880-5708. An inter-departmental, multi-disciplinary collaborative established to promote the study and practice of entrepreneurship via education and training, information and expertise exchange, consulting and business assistance, research, and technology support using a variety of traditional and non-traditional modes. The Center is a student- and community-targeted entity linking the entrepreneurial needs of the Inland Empire to the education and scholarly expertise of faculty and students in the various academic units of the CSU San Bernardino.

Inland Empire Management Center. Coordinated through the College of Business and Public Administration, 880-5700. Representing the College of Business and Public Administration, the IEMC conducts seminars, short courses, contract classes, and conferences and provides management consulting by faculty.

Center for Research in Integrative Learning and Teaching. Executive Director, Barbara Larrivee, Department of Learning, Literacy and Culture, 880-5670. Established to conduct research and develop models which acknowledge the "multiple and complex patterns" inherent in the teaching learning process; to provide both faculty and the community with "state of the art" developments in education and educational evaluation; and to serve as a conduit to other educational institutions and organizations.

Center for Equity in Education. Director, Esteban Diaz, Department of Educational Psychology and Counseling, 880-5621. Established by faculty of the College of Education to address issues related to providing equitable education for students at all levels of the educational system. Of special concern are public school students who are from different linguistic and cultural backgrounds or who have special educational needs.

Center for Economics Education. Director, Jim Charkins, Department of Economics, 880-5553. Established to train teachers in the economics method of thinking so that their students will become better informed concerning the economy in which they live, the relationship of the U.S. economy and the world economic system, and the economics of various social and political issues.

Center for the Enhancement of Math Education. Director, Joan Hallett, Department of Mathematics, 880-5368. Established to serve as a vehicle for identifying, analyzing, and addressing the needs of mathematics teachers in the service area.

Center for Applied Science. Established to promote applications of science to real or possible problems of importance to the community and training of students in research to continue to advance the applications of science.

Center for Prose Studies. Director, Bruce Golden, Department of English, 880-5832. Established to remedy the lack of a rigorous collective effort devoted to the "product" of expository writing instruction—the prose itself.

Center for Scholarship on Spirituality. College of Extended Learning, 880-5975. Established to promote scholarship and lifelong learning related to the study of spirituality, and supports the investigation of religious practices from academic perspectives including historical, anthropological and sociological.

Center for the Study of Correctional Education. Directors, Carolyn Eggleston and Thom Gehring, Department of Educational Policy and Research, 880-5654 or 880-5653. Established to serve teachers who work in prisons and juvenile institutions. Center activities include a planned master's degree in correctional education, research, and professional development with an emphasis on networking across jurisdiction and national boundaries.

Center for the Study of Hate Crimes and Extremism. Director, Brian Levin, Department of Criminal Justice, 880-5506. Established to conduct research and serve as a community resource in the areas of hate crimes and extremism.

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 70 recognized universities and institutions of higher education in 17 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
Chile	Pontificia Universidad Católica de Chile (Santiago)
Denmark	Denmark's International Study Program (the international education affiliate of the University of Copenhagen)
France	Institut des Etudes Françaises pour Étudiants Étrangers Université de Droit, d'Économie et des Sciences D'Aix-Marseille 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, the Institute of Oriental Languages and Civilizations, and Evry

Germany	Universität Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg
Israel	Tel Aviv University The Hebrew University of Jerusalem
Italy	CSU Study Center (Florence) Università degli Studi di Firenze 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) Massey University (Palmerston North)
Spain	Universidad Complutense de Madrid Universidad de Granada
Sweden	Uppsala Universitet
Taiwan	National Chengchi University (Taipei)
United Kingdom	Bradford University Bristol University Hull University Kingston University (Greater London) Sheffield University University of Wales, Swansea
Zimbabwe	University of Zimbabwe (Harare)

The 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 college. 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 Dr. Aurora Wolfgang, Foreign Language and Literature Department on campus at 880-5838 or aurora@csusb.edu; or by writing to the California State University International Programs, 401 Golden Shore, Sixth Floor, Long Beach, California 90802-4275. Visit us on the World Wide Web at <http://www.gateway.calstate.edu/csuienet/>. Applications for the 2002-03 academic year overseas must be submitted by February 1, 2002.

National Student Exchange Program

California State University, San Bernardino is a member of this cooperative program which allows selected students to spend up to a year at one of 158 U.S. colleges. These campuses are located in 48 states, District of Columbia, Puerto Rico, Guam, Virgin Islands and Canada. The exchange student pays either normal California State University, San Bernardino fees or "in state" tuition at the host institution.

This exchange encourages students to see another part of their own country, live and work in a different academic environment, and pursue specialized courses not offered at Cal State. All course work taken while on exchange is approved by an advisor and then evaluated by the records office *before* leaving campus. Thus, there is no loss of time or credits.

Students normally apply in the winter of their freshman or sophomore year and are screened and placed during March for the next academic year. To qualify, students must have a 2.5 grade point average. For information and applications, contact the National Student Exchange Office in University Hall, Room 183, 880-5239.

University Foundation

The Foundation is a nonprofit self-financed corporation chartered to assist the university in fulfilling its mission. It oversees non-appropriated revenues derived from the administration of grants, research and external contracts, manages investments and the endowments, administers scholarships, manages the university's commercial operations including the Coyote Bookstore and the Foundation Food Service, and provides administration of community-oriented conferences and workshops. The Foundation is governed by a Board of Directors whose membership is drawn from the community, administration, faculty and student body. Its operations are managed by an executive director and a professional staff. During the 2000-01 academic year, the Foundation administered revenues in excess of \$32.4 million and a payroll of 1182 full and part-time employees.

CSU Soda Springs Desert Studies Center

The Soda Springs Desert Studies Center, a desert field station, is available for use by CSU faculty, students and other universities and agencies. The center is located in the Eastern Mojave Desert, eight miles southwest of Baker, California, in the Mojave National Preserve and adjacent to areas of critical ecological concern.

The Center contains the habitat of the Mohave Tui chub, a federally registered, endangered species of fish. Dormitory, bath house, kitchens, lecture rooms, laboratory, computer lab, and library facilities are available to support classes and individuals conducting independent study projects and research.

The center offers a variety of short-term courses on desert-related topics and hosts field-oriented courses in anthropology, archaeology, art, biology, geography, geology, history and physics. The College of Natural Sciences Office can supply information to those seeking to use or visit the Desert Studies Center or phone (714) 278-2428; e-mail: WPresch@Fullerton.Edu

Campus Tours

Tours of the Cal State campus are available throughout the year for individuals or groups. Student visitors interested in acquiring firsthand information about the university's programs or classes may request a meeting with faculty or administrators. Arrangements can be made to visit the residence halls. Requests should be made through the Office of Admissions and Student Recruitment at (909) 880-5188.

STUDENT LIFE

Housing and Residential Life

The university provides on-campus housing for students in two Serrano Village residential complexes—the University Apartments and the traditional Residence Halls. Residential living is a focal point of the college experience for more than 1000 CSUSB students. Social as well as educational activities are organized by the residents with the assistance of the housing staff, making apartments and residence halls a center for living and learning with other students. Living on campus is one of the best and easiest ways to become involved at CSUSB, and many leadership opportunities exist within the housing operation.

Opening in Fall 2002, phase II of the Serrano Village University Apartments, open to returning upper classmen, will offer 316 bed spaces in single and double occupancy room configurations. Located in the southwest corner of the campus, each apartment houses four students and includes two bathrooms as well as living room, dining room and kitchen facilities. Every unit is fully-furnished, and kitchens are outfitted with garbage disposals, oven/range, and refrigerator. In addition, local telephone calls, expanded basic cable and high-speed internet connection is available for each resident.

Common area facilities within the University Apartment community include several study rooms. Each floor of the apartment buildings is accessible by elevator, and accessible units for residents with disabilities are available throughout the complex. Building entrances are on 24-hour lockdown and can be accessed by card key. Apartment entrances are individually locked as are bedroom doors. Laundry facilities are available to University Apartment residents in a separate facility adjacent to the apartments.

Living space in the University Apartments is rented on a per-bed basis rather than per-apartment so that students are not responsible for extra rent should one or more roommates move out before the end of the contract. Rental rates for the 2002-03 academic year are projected to be \$536 per month for a private, single-occupancy bedroom and \$450 for a shared, double-occupancy bedroom, and \$657 for a studio. No meal plan is required.

Residence Halls, open to freshmen, the university's on-campus residence halls, are composed of eight attractive houses. Each house has a main lounge, kitchenette, laundry/workroom, and a sun deck. Both single and double rooms are available. Rooms are arranged in suites so that no more than 13 students share a study room and bathroom facilities. Students living in the residence halls are required to take a basic meal plan that covers approximately seven dinners per week. The cost of a double room and meal plan in the residence halls is projected to be \$4,956 for the 2002-03 academic year. Living in either the on-campus residence halls or apartments is reasonably priced when compared to the rapidly rising costs of commuting and has the advantage of priority registration, assigned parking, and being near the university's Pfau Library and other facilities. Furthermore, the Housing and Residential Life staff seeks to make financial arrangements as convenient as possible and offers multiple payment options.

Amenities that are shared by both the apartments and residence halls include indoor and outdoor recreational facilities.

The indoor area contains a pool table, ping-pong tables, foosball, television viewing area and small snack/convenience shop. The outdoor recreation area contains barbecues, patio seating, sand volleyball court, basketball court, sun deck and swimming pool. Smoking is not permitted in any university buildings including resident rooms.

Student resident assistants and professional resident coordinators live within the complex and are available to help students with various academic and personal needs. They are an important part of the housing operation, facilitating the community living experience and enforcing community guidelines. Often RA's and RC's are called upon by residents to assist with issues related to college transition, academic success, personal advising and other such concerns. Both RA's and RC's have extensive skills they are able to bring to CSUSB housing.

Housing is guaranteed to first-year freshmen who apply by the priority deadline in May, 2002. Any student needing information about on-campus housing should contact the Office of Housing and Residential Life, 880-5246 or on the website: www.housing.csusb.edu.

Associated Students, Inc. (ASI)

ASI's mission is stated as follows: "To Serve Students." In support of this mission, ASI funds many projects, events and activities enriching campus life. For example, the ASI Box Office offers discount tickets to every local area movie chain, Magic Mountain, Knott's Berry Farm, Universal Studios, Sea World, and the Renaissance Pleasure Faire (in season) to name just a few. ASI supports the College Legal Clinic providing free legal advice to students through a panel of attorneys. ASI annually grants funding for student research and travel so that students may pursue research projects or present papers at conferences. Other areas enjoying ASI funding support are the ASI Activities Board which puts on such events as the monthly movie night and the Speaker Series; the Club Allocation Budget which supports clubs and their programming efforts; and the Associated Students Productions which brings major talent to campus and cosponsors entertainment events with the Coussoulis Arena.

While all these activities are important, ASI's real value lies in its ability to provide a setting in which leadership skills are developed. Every spring campus-wide elections are held to elect the President, the Executive Vice President, the Vice President for Finance, the Vice President for University Affairs, and the members of the ASI Board of Directors from among the student body. These student leaders set ASI policy, interact with the University's senior management, and voice student issues and concerns to the faculty and administration. Many of our alumni have gone on to very successful careers in education, business, medicine, law, etc., and all of them who stay in touch cite their experience at ASI as a very positive factor in their development and success.

Activities

The diverse interests and lifestyles of students are reflected in numerous activities sponsored by the university and the Associated Students, Inc. (ASI). These programs include dances, drama productions, choral concerts, quarterly festivals, musical concerts, guest lecturers and small group socials.

The university and ASI encourage and aid the formation of organizations which enhance the educational opportunities of students. These organizations involve students, faculty, and staff working together in professional, recreational, educational, political, service, religious and cultural activities. University-recognized groups have full use of campus facilities in planning their programs.

Student Union

The Student Union, through its programs and facilities, is a focal point of the campus where students, faculty, staff, administration, alumni and guests develop an enduring connection to the university. As a campus center, the Student Union assists in the retention and development of students, while encouraging a deeper understanding and appreciation of cultural pluralism, gender equity and ethnic diversity by providing a variety of cultural, social, educational and recreational activities which create an environment conducive to personal growth and development. As a bridge between formal learning and life experience, co-curricular activities coordinated by the Student Union serve as a training ground for development of future leaders. Planned activities also provide students with leadership opportunities and employment which yield an agenda of events intended to promote interaction as well as relaxation, entertainment and social opportunities. As the meeting place on campus for students and their organizations, the physical facilities provide a comfortable and relaxing environment that facilitates the delivery of services important to the university community.

The Student Union includes spacious lounge areas, a study lounge, the Coyote Cafe, the Pub, game room and a spacious courtyard. Offices for the Associated Students, Inc., the Office of Student Leadership and Development, meeting rooms for organizations and a 1,000-seat Events Center used for major events are a part of the facility. Services provided in the Student Union include an Automatic Teller Machine, locker rentals, free notary services to students, graphics services, college ring sales and Student Union scheduling. The Student Union Program Board provides daytime and evening entertainment.

Women's Resource Center. Provides the campus community with resource publications, information and programs on the educational, career, personal needs and interests of women.

Adult Re-Entry Center. Assists students who have re-entered the university after several years of life and work experience. Provides support groups, information and peer support.

Cross Cultural Center. Provides information, personal needs, education and a place for all students of all ethnic and cultural backgrounds, although support of underrepresented students continues to be a main focus of the Center. The Center builds camaraderie and understanding among different cultures by focusing on the similarities and appreciation of the differences. Programs that relate to diversity of cultures and ethnicity are planned and implemented by the student staff. The Center stresses the concept that learning on campus is not confined to the classroom.

Intercollegiate Athletics

An intercollegiate athletics program was implemented in the 1984-85 academic year. It is an NCAA, Division II program with basketball, soccer and volleyball for both women

and men; cross country, softball, waterpolo, and tennis for women; and golf and baseball for men. Other sports planned in the coming years are track and field for men and women.

The university mascot is the Coyote and the colors are light blue and black.

New Student Programs

The purpose of new student orientation is to assist students in their transition to the university, introduce them to the broad educational opportunities at CSUSB and to integrate them into the life of the university. New student orientation programs are offered immediately prior to the beginning of each quarter. Fall orientations include a comprehensive overnight program for first-time freshmen, a transfer orientation, a parent orientation and a program designed specifically for re-entry students. Winter and spring orientations are combined and are held in the evenings during quarter break. Each new student orientation program is designed to minimize anxiety and to promote positive attitudes about the student's success at the university. Contact Student Leadership and Development at 880-5234 for further information.

Student Clubs and Organizations

More than 100 student clubs and organizations are currently chartered at CSUSB. Departmentally affiliated (those directly related to an academic program), religious, cultural, service and political organizations are just a few of the clubs open to students. The staff in the Student Leadership and Development Office provides advice, support and extensive leadership development opportunities to students involved in organizations. Contact Student Leadership and Development at 880-5234 for more information.

Greek Life

The Greek System at CSUSB includes five fraternities governed by the Intra-Fraternity Council (I.F.C.), four sororities governed by the Panhellenic Council (Ph.C.) and two fraternities and two sororities governed by the National Pan-Hellenic Council (N.P.H.C.). In addition, there are two co-ed fraternities on campus and two Greek Honor Societies that assist in furthering leadership skills and scholarship standards. Contact Student Leadership and Development at 880-5234 for further information.

Intramural Sports

Intramural sports offers a great way to meet people, have fun, and keep in shape. The program contributes to the personal development of students through the "out of classroom experience" and is related to the total educational program of the university. All CSUSB students, faculty, staff and alumni association members are eligible to participate in competitive sport leagues, tournaments, or special events. The Recreational Sports Department is dedicated to providing enjoyable, innovative, and safe activities for all skill levels and interests. Different sports are offered each quarter and include flag football, soccer, basketball, floor hockey, volleyball, softball, and a 3-point and slam dunk contest. For a detailed schedule of each quarter's offering, call the Department of

Recreational Sports at 880-5235 or check the department's website at <http://campusrec.csusb.edu/>.

Informal Recreation

Recreational sports offers a wide variety of activities to satisfy fitness and leisure needs. The fitness center, swimming pool, gymnasium, racquetball courts, and tennis courts are available for unstructured use when academic classes and athletic team practices are not scheduled. The facilities are open to encourage participants to develop active lifetime skills, and to promote a health and wellness lifestyle. CSUSB students, staff, faculty and alumni association members have the privilege of using these facilities. All users must show a valid Coyote One Card prior to entering the facility. A copy of the current hours can be obtained from Department of Recreational Sports located in PE-150. For instant information call 880-5235 or visit the department's website at <http://campusrec.csusb.edu/>

Career Development Center

The Career Development Center provides two annual Career Fairs: the Education Job Fair in the winter quarter and the Career Expo in the spring quarter. Other services include: on-campus interviews (spring quarter), off-campus job listings (updated daily) and student assistant job opportunities are posted on-line. Reference books, directories and company literature/video tapes are also available in the center's Career Library.

Choices CT, a new interactive career exploration guide is available as is job search on the Internet. Placement counseling and career counseling are available by appointment. Resume critiques on a walk-in basis are also available. Career-related workshops are conducted on demand. To accommodate student needs, workshops are available to student clubs and organizations. Career-related class presentations are available to faculty upon request. Additionally, the Career Development Center provides set-up and maintenance of graduate school files. The Career Development Center is located in University Hall 329, 880-5250, <http://career.csusb.edu>.

Financial Aid

The Financial Aid Office administers a variety of programs to assist qualified students. Sources of aid include the Federal Pell and Supplemental Educational Opportunity Grants, Perkins Loans and Work-Study Program. The Federal Direct Student Loans and Parent Loans to Undergraduate Students are also available. The CSUSB Emergency Loan Fund and the Joseph Bailey Loan Fund are available for short-term loans which require funds rapidly. The office also administers State University Grants, Educational Opportunity Programs Grants and the State Work-Study Program.

For a student interested in working part-time, on or off campus, assistance in obtaining a job is available through the Career Development Center.

The Free Application for Federal Student Aid (FAFSA) must be submitted to the processor by March 2 each year. Late applications are accepted after March 2 and throughout the school year if funds are available. Necessary forms can be obtained from high schools, community colleges, the world wide web or the university.

A full description of the university's financial aid programs is available in the free financial aid brochure or visit us on the internet at <http://finaid.csusb.edu>.

Scholarships

The scholarships listed below are awarded to new and continuing students in accordance with the terms of the gifts. Scholarship applications are accepted until March 2. Contact the Financial Aid Office for details. Generally, students must possess a minimum grade point average of 3.0 ("B"). Ordinarily, students applying for scholarships are considered for any for which they may be eligible.

The **Albro Scholarship** is a \$1650 scholarship awarded annually to a full-time African American student with a minimum 3.0 grade point average.

The **Arrowhead Credit Union** provides two \$2,500 annual awards to an undergraduate or graduate student who is enrolled full time in the College of Business and Public Administration or the College of Social and Behavioral Sciences.

The **Associated Students, Incorporated** provides 36 scholarships at \$1000 each annually to continuing students demonstrating academic ability and financial need.

The **Vivien Bull Scholarship** provides \$400 in scholarships to students with a minimum grade point average of 3.0, have completed 24 quarter units at CSUSB, and majoring in Liberal Studies with the goal of entering the Credential program.

The **California Retired Teachers Association** provides \$2000 scholarship to a senior or graduate student entering the field of teaching. The student is selected on the basis of financial need, academic achievement and school and community activities.

The **California State University Future Scholars Program** provides 30, \$1000 scholarships to students from disadvantaged backgrounds.

The **California State University, San Bernardino Associates** provide two scholarships totaling \$800 to upper-division students who possess a superior academic record, financial need and a record of good citizenship.

California Portland Cement awards \$1000 annually to a full-time student in a teaching credential program preparing them to teach math or science at the secondary level.

The **Anthony and Lois Evans Scholarship** is awarded to a student with a minimum grade point average of 3.5 who is involved in student performance activities such as music, theatre arts or debate/forensics. The annual award is approximately \$550.

The **Faculty and Staff Memorial Scholarship** honors the memory of deceased university faculty and staff. Amounts vary as additional funds are added to the scholarship; the most recent award was \$900. The Faculty and Staff Memorial Scholarship Fund, managed by the foundation, contains tributes to former faculty including Dr. Mary Cisar (died 1971), Dr. Walter Zoeklein (1975), Dr. Florence Mote (1977), Dr. Neville Spencer (1977), Dr. James Finley (1980), Dr. William Gean (1980), Dr. Alfred Egge (1982), Dr. Marvin Frost (1983), Dr. Robert R. Roberts (1984) and Dr. Margaret Lenz (1987).

The **Farmers Insurance Group of Companies** awards from \$500 to \$2,000 annually to an outstanding student interested in the fields of insurance, mathematics, business administration, personnel, or other areas related to the insurance industry.

Financial Aid Chart

<u>Types of aid</u>	<u>Who can help</u>	<u>Determination of eligibility</u>	<u>Repayment requirement</u>
Scholarships			
Local scholarships	High school or college counselor	GPA, need	no
University scholarships	University financial aid officer	GPA or GPA and need	no
Grants			
Federal Pell Grant	High school or college counselor	need	no
Federal Supplemental Educational Opportunity Grant	University financial aid officer	need	no
Cal Grant A/B, Bilingual Teacher Grants and Fellowships	High school or college counselor	GPA, need	no
Federal Educational Opportunity Program Grant	University E.O.P. director or aid office	need	no
State University Grant		need	no
Loans			
Federal Perkins Loan	University financial aid officer	need	yes
Federal Subsidized Direct Loan	University financial aid officer	need	yes
Federal Unsubsidized Direct Loan	University financial aid officer	enrollment	yes
Federal Parent Loan to Undergraduate Students	University financial aid officer	enrollment	yes
Work-study			
Federal work-study program	University financial aid officer	need	no
State work-study program	University financial aid officer	need	no
On and off-campus part-time jobs	University placement advisors	-	-

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

The **Foundation for California State University, San Bernardino** provides approximately \$3700 in scholarships to continuing students with superior academic records and financial need.

The **Robert and Frances Fullerton Scholarship** provides a \$1650 award to students pursuing a paralegal or law degree upon graduation.

The **Leslie I. Harris Scholarship** provides scholarships to incoming freshmen from San Bernardino City Schools with outstanding academic record (3.5 grade point average). The amount of each award is approximately \$1200, some awards may be renewed for an additional three years. No special application is required for renewal.

The **Donald W. Jordan Memorial Scholarship** provides a \$900 annual scholarship for an undergraduate student interested in the practice of law.

The **Bennet A. Meyers** provides scholarships to incoming freshmen from San Bernardino City Schools with outstanding academic record (3.5 grade point average). The amount of each award is approximately \$1200, some awards may be renewed for an additional three years. No special application is required for renewal.

The **David Montano Memorial Scholarship** of approximately \$600 is awarded annually to a junior or senior student who plans to continue his or her postsecondary education at California State University, San Bernardino.

The **Eva Mae Merchant Loan-Scholarship** is awarded annually to students in the Education and Nursing Departments. Each award is comprised of a \$1350 scholarship and a \$1350 no-interest loan.

The **Alfred F. and Chella D. Moore Scholarship Fund** provides approximately \$22,800 in scholarships to incoming freshmen with outstanding academic records (3.5 grade point average minimum). The amount of each award is approximately \$1800; some awards may automatically be renewed for an additional three years for a total of \$7200. No special application is required for renewal.

The **Clara McKinney Scholarship** provides \$700 in scholarships to students in early childhood education with a minimum grade point average of 3.0. Consideration will be given to students who reside, or have resided, in the Barstow area.

The **Shelby Obershaw Teacher Education Scholarship** provides \$800 in scholarships to students in a teacher preparation program leading to the multiple subject or single subject credential at CSUSB. Applicants must have completed 12 units toward the credential and have a grade point average of 3.0 during the junior and senior years.

The **Alan Pattee Scholarship** is provided to the children of California law enforcement personnel or firemen who are killed in the performance of official duties within the State of California. The amount of the scholarship is equal to the cost of tuition and mandatory registration fees.

The **Leon V. and Marion G. Pittman Scholarship** is awarded by the California State University, San Bernardino College of Natural Sciences annually to a full-time sophomore student majoring in biology, chemistry, mathematics or physics. The emphasis in selection is on the student's academic record in the freshman year of studies at CSUSB. The most recent award was for \$1,000.

The **Poma Family Business Scholarship** provides two scholarships of \$2500 each to students majoring in a discipline in the College of Business and Public Administration, demonstrates community service involvement, has financial need, and a minimum GPA of 2.9.

The **Jack Scott Scholarship** provides \$600 in scholarships to students in an accounting concentration with a minimum grade point average of 3.0.

Stanford C. Shaw Memorial provides a \$500 scholarship to students demonstrating academic ability and financial need.

The **Mara Simmons Scholarship** is awarded to full-time students with a physical or learning disability with a minimum grade point average of 2.5. The most recent award was \$4,600.

The **Nancy E. Smith Scholarship** is provided to a full-time student majoring in public administration or political science who intends to pursue a career in public service. The most recent award was \$600.

The **William H. Wilson Scholarship** is an annual scholarship provided to a full-time student at California State University, San Bernardino, preferably from the immediate San Bernardino area. Applicants must demonstrate economic need. The scholarship will average \$500. Ordinarily, the scholarship will be given to a different student each year, but under special, extenuating circumstances, it may be renewed.

Some scholarships are administered by the major departments and associations. Applications and further information about them may be obtained by contacting the department or association. These include but are not limited to:

The **American Association of University Women Scholarship** is a \$400 award to a re-entry student (age 30+), interested in women's issues, has a minimum grade point average of 3.2, and has financial need.

Business Access and Opportunity Program provides twelve scholarships to low income freshmen or transfer students accepted to the College of Business and Public Administration. Each award is approximately \$1000 each.

The **Robert C. Byrd Honors Scholarship** is a federally funded scholarship of \$1500 awarded to incoming freshmen students.

The **Jack H. Brown Scholarship** provides five \$1000 awards to students majoring in business/public administration.

The **Cajon High School-CSUSB Scholarship** is awarded by Cajon High School to graduating students who will be attending CSUSB. Cajon High School awards \$250 which is matched by CSUSB totalling \$500.

The **Rose Brown Scholarship** provides five \$1,000 awards to students of any major with a minimum 2.5 GPA, financial need, out of high school of eight years, and are widowed and/or single parent.

The **California State University Association of Latino Faculty, Staff and Students** awards eight \$500 scholarships to students who maintain a competitive GPA, and who are enrolled full-time..

The **California State University, San Bernardino Alumni Association** provides a \$3,000 scholarship to a student exhibiting financial need, academic superiority and community involvement.

The **California State University, San Bernardino Black Faculty and Staff Association** awards \$1000 to incoming/continuing students with a minimum 2.5 GPA, economic need, and are African American origin, or who are involved in making contributions to the African American community.

The **California State University, San Bernardino Department of Public Administration** selects an annual recipient of the **Caroll J. Bellis Scholarship**. This \$100 award is presented to a Public Administration major who has completed an outstanding research paper as part of the requirements for any class in public administration. The same department also administers the **Margaret King Gibbs Scholarship** of \$100 to a graduate student enrolled in the Master of Public Administration degree program, based on an outstanding academic record and outstanding research project and/or papers completed as part of the requirements for the degree.

The **California State University, San Bernardino Economics Department** awards the **Janczyk Family Scholarship**, the **John Raymond Family Economics**, the **John Winn Kennedy, Sr. Scholarship**, and the **Economics Alumni Scholarship** to economics majors or administration majors concentrating in business economics. Each award is approximately \$675.

The **California State University, San Bernardino Music Department** provides 10 merit scholarships totaling \$2500 to students who have demonstrated above average proficiency with a musical instrument and have performed with a related university organization.

The **California State University, San Bernardino Theatre Arts Department** provides 12 scholarships for a total of \$12,100 to students who have demonstrated excellence in the field of theatre arts.

The **Gay and Lesbian Union** awards \$100 annually to students involved in the gay community.

The **Reynold C. Gross Memorial Scholarship is awarded annually to an ROTC cadet in good standing.**

The **Graduate Equity Fellowship** is funded by the CSU Chancellor's Office, and administered by the Office of Graduate Studies. Twelve underrepresented minority graduate students were awarded \$2355 each last year.

The **Hal Hoverland Scholarship** is a \$500 award selected by the College of Business and Public Administration to students demonstrating academic ability.

The **John W. Kennedy Scholarship** provides \$650 in scholarships to students majoring in economics or administration with a declared major of business economics, and have completed a minimum of 12 quarter units in economics course work with a minimum grade point average of 3.0, and 2.75 overall grade point average. Applicants must have completed 45 quarter units of college course work.

The **Richard C. Moseley Marketing Scholarship** provides \$400 in scholarships to full-time students majoring in Marketing with a grade point average of 3.2.

The **Arlene Roberts Memorial Scholarship** of \$600 is awarded to full-time art majors with a minimum 3.0 grade point average and who exhibit financial need.

The **Roger's Scholars Scholarship** provides approximately \$95,700 in scholarships to students attending the Coachella Valley Campus. The most recent awards averaged \$3300 each.

San Manuel Indian Bingo and Casino provides \$500 scholarships to students, or their parents, employed at the San Manuel Indian Bingo and Casino. Student must possess a minimum 3.1 grade point average. Selection is made by the College of Business and Public Administration.

The **Grossman Scholarship** awards \$500 to a San Bernardino Unified School District employee enrolled in at least five units per quarter.

The **College of Business and Public Administration Golf Classic Scholarship** provides \$500 scholarships to students demonstrating academic ability.

The **Linda Stockham Graduate Anthropology Scholarship** of \$250 is awarded to graduate students within the M.A. in Interdisciplinary Studies, Anthropology concentration, with a 3.0 grade point average in major course work and 2.75 overall.

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

Cal Grant A, B, & T Bilingual Teacher Grants and Graduate Fellowships. Students apply directly to the California Student Aid Commission for these state-sponsored awards which cover a portion of the expense of required fees. Applications and full information on these awards are available at high schools, community colleges, on the world wide web, and the California State University, San Bernardino Financial Aid Office.

International Students

The International Student Services Office is the primary contact for international students including new immigrant and permanent resident students who are nationals of other countries. The ISS Office assists students upon arrival with locating temporary and permanent housing, provides an orientation to the community and the campus including information about academic requirements, immigration requirements, housing, health and support services available to the student. The ISS Office also provides programs and activities to assist students with personal growth and development. Assistance and referrals are available for academic and personal counseling.

The ISS Office works closely with the international clubs and the various nationality organizations in bringing cultural events on campus. Information about club activities and field trips is available. The International Student Services Office is in University Hall, Room 235.

Project UPBEAT (University Preparation by Early Academic Training)

The Student Academic Services Outreach Program is designed to motivate and enhance student awareness about seeking a postsecondary education. The program targets middle school students through Project UPBEAT (University Preparation By Early Academic Training). Project UPBEAT's objective is to provide an educational, college-oriented program

to students and parents. Primary emphasis of the program is to increase the number of students pursuing a college education. Project UPBEAT participants are likely to be regularly admissible to four year universities upon high school graduation. Students are invited to the campus for tours, CSUSB faculty presentations and special events. Project UPBEAT serves 13 middle schools in the Inland Empire and approximately 700 students and their parents.

University Awareness Program (UNAP)

UNAP is a supportive program designed to motivate 9th and 10th grade students to complete high school and pursue a college education. Participants attend workshops presented by CSUSB Student Mentors at their respective school sites. The workshops range from college admission requirements and career awareness to goal setting and motivational presentations. There are 21 high schools involved in UNAP from Riverside and San Bernardino Counties and approximately 1,000 participants.

Upward Bound Program

The Upward Bound Program attempts to generate skills and motivation necessary for success in education beyond high school. Participants are low-income and potential first generation college students.

Students must have completed the 8th grade and have not been promoted to the 12th grade; be between the ages of 13 and 18; enrolled in high school; planning to go to college, and need the services in order to fulfill their goals.

Upward Bound provides tutoring, academic advisement and career exploration. Services are provided year-round which include Saturday university sessions, and cultural events. The summer component is an extensive six-week residential program.

Participants are selected based upon recommendations from their counselors, teachers, and principals.

Student Health Center

The Student Health Center assists students in maintaining good health to successfully participate in the educational program of the campus. The Student Health Center provides, on an outpatient basis, medical care usually provided by a primary care physician. Services available during posted hours include treatment of illnesses, injuries, family planning, and immunization programs. Referrals to community health facilities are made for major illnesses or injuries beyond the scope of the Student Health Center. Any outside care, whether referred by the Health Center or not, is at the student's expense. Medication and elective health services (such as pre-employment physical examinations) are available at a nominal cost. The Center has its own licensed pharmacy where students may get prescriptions filled and purchase over-the-counter items as well. Charges associated with these services are usually dramatically lower than those found elsewhere.

All regularly enrolled students are eligible for services. Students in the extended learning program and those on employee fee waiver are not eligible. A supplementary insurance plan is available to all regularly enrolled students through a private insurance company. This plan provides health insurance coverage for serious illnesses and accidents that may re-

quire hospitalization. For more information or to purchase this insurance, contact the Student Health Center at 880-5241.

The Health Center is open September 1 through June 30. The Center is closed on official university holidays. Office hours are:

Monday and Thursday, 8 a.m.-5 p.m.
Tuesday and Wednesday, 8 a.m.-6 p.m.
Friday, 9 a.m.-4:30 p.m.

In case of an on campus emergency, contact the Department of Public Safety by dialing 5911.

Immunization Requirements. The Student Health Center provides clearances for the requirement that certain groups of students present proof of the Measles & Rubella vaccine, and/or Hepatitis B series. *Hepatitis B vaccine is now required* of all first time enrollees that are 18 years or younger. For specific information about vaccines required call the Immunization Hotline at 880-7356. These immunization requirements must be fulfilled by the beginning of the second term of enrollment at CSUSB. Students may fulfill these requirements by bringing, faxing (880-7027) or mailing documentation to the Center. For those students unable to obtain acceptable proof of immunizations, the Student Health Center will provide the immunizations during posted clinic hours. There is no fee for the Measles/Rubella vaccine. There is a cost for the Hepatitis B series, please call the Health Center for updated prices at 880-5241. Please refer to [Page 41](#) for detailed information on the measles/rubella requirement.

Student Health Advisory Committee. Students can offer important feedback about services through membership on the Student Health Advisory Committee (SHAC) sponsored by the Associated Students, Inc. Members work with clinic staff on a variety of health education projects, and also act as a liaison between the CSUSB student body and the Student Health Center.

Psychological Counseling Center

The Psychological Counseling Center works with students who have questions on relationships, lifestyles, parenting skills, anxiety or depression. Anything that keeps a student from achieving educational potential or life success may be addressed. Any student who is currently enrolled at CSUSB is eligible for eight sessions of counseling per academic year. Couples may be seen as long as one member of the couple is a student. The staff at the Center consists of licensed psychologists, marriage-family-child therapists, and supervised graduate trainees. There is no charge to currently enrolled students for the Center's services. Although the demand for counseling services is considerable, appointments are usually made within a week of the student's initial contact. In case of emergency, students are seen with minimum delay. The Center is open September 1 through June 30. Appointments may be scheduled by calling (909) 880-5040 or visiting the Health Center, Room 136. Office hours are:

Monday and Thursday, 8 a.m.-5 p.m.
Tuesday and Wednesday, 8 a.m.-6 p.m.
Friday, 8 a.m.-4:30 p.m.

Quarter break hours:

Monday- Friday, 8 a.m.-4:30 p.m.

The Center is closed on official university holidays.

Services to Students with Disabilities (SSD)

Services to Students with Disabilities offers a comprehensive and well-coordinated system of educational support services to students who have documented permanent or temporary disabilities. All students who are registered with the office are guaranteed equal opportunity to participate in all programs, services, activities and facilities.

Some of the support services available include: tape-recording of course related materials, sign language interpreting and real-time captioning services for the hearing impaired, test-taking accommodations, priority registration, campus orientation, mobility assistance, and temporary medical parking permits. The SSD office is also a resource to faculty and staff members who assist students with disabilities in meeting their educational objectives.

The SSD Office, in collaboration with the California State Department of Rehabilitation, sponsors the WorkAbility IV program. WorkAbility IV is a transition program designed to create career options and opportunities for students with disabilities who complete their degrees at CSUSB. This program also focuses on effective assistive technology appropriate to each participant's disability and chosen field of employment.

Both prospective and new students to the university are encouraged to contact SSD early in their CSUSB programs. To arrange for an appointment with a SSD staff member or for further information, call (909) 880-5238, 880-7230 or visit the SSD web site at <http://enrollment.csusb.edu/~ssd>. The office is located in University Hall, Room 183.

Department of Public Safety

The Department of Public Safety (Campus Police) is a duly authorized law enforcement agency. The mission of the department is the protection of life and property on campus. The Department of Public Safety provides professional service to the university community through diligent crime prevention, disaster preparedness, law enforcement, and campus-oriented problem solving. The department's motto is "Campus Safety Through Service."

All campus police officers are fully trained state peace officers that meet all requirements set forth by the State Department of Justice, Peace Officers Standards and Training (POST). A full range of public safety services is provided, including law enforcement, crime reporting and investigation, crime prevention training, motorist assistance, lost and found, disaster preparedness, and medical and fire emergency coordination. Public Safety services are available 24 hours a day, seven days a week, by dialing 911 for emergencies and 880-5165 for all other requests.

A complete "Campus Safety Report" is available through the Home University Web Page www.csusb.edu and in a pamphlet from the Department of Public Safety. Additional information is available on the Department of Public Safety web page at publicsafety.csusb.edu.

Student Affairs

The Office of the Vice President for Student Affairs provides administrative leadership within the division and the university to assist students in the attainment of their educational goals. This is accomplished through advocacy for the provision of numerous student services as well as the intentional creation of programs and environments that enhance a student's learning, leadership potential, personal responsibility, and career development. Students needing assistance with any university matter are invited to begin with this office. Specific policies regarding student non-academic and discrimination-related grievances, discipline and emergency calls for students are administered by this office. A more complete statement on student privacy rights appears in the appendix.

Alumni Association

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

The purpose of the nonprofit association is to assist alumni in continued cultural and educational development, further the community interests of the university, establish mutually beneficial relationships between the university and its alumni, and promote the educational goals of the university. Additional information may be obtained from the Alumni Affairs Office, or call 880-5008.

Commons

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

Coyote Bookstore

Students are able to purchase or order books and supplies needed for classes plus tapes, class rings and personal items from the on-campus Coyote Bookstore, owned and operated by the University Foundation. The Coyote Bookstore is a non-profit operation, with proceeds used to further the educational aims of the university.

Student Responsibility

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

Children's Center

The Children's Center is a child development program which accommodates children of university students, as well as faculty and staff and people from the community when space is available. The center is open during the academic year (Monday through Thursday, 7:30 a.m.-10:00 p.m. and Friday, 7:30 a.m.-4:00 p.m.) for children three years (toilet trained) to 10 years. Additional information regarding fees and space availability may be obtained by calling the Children's Center Office, at 880-5928.

ADMISSION TO THE UNIVERSITY

Requirements for admission to California State University, San Bernardino 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 community college counselor or the Office of Admissions and Student Recruitment.

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-three campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission and financial aid. Applications may be obtained online or at any California high school or community college or from the Admissions Office at any of the campuses of the California State University.

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 have authentic and official transcripts of all previous academic work attempted submitted directly from each institution attended. Failure to file complete, accurate and authentic application documents may result in denial of admission, cancellation of academic credit, suspension or expulsion (Section 41301 of Title 5, California Code of Regulations).

Students who are admitted to the university for a given term but who do not register in that term must file a new application form and \$55 application fee when they again seek admission and must meet the then current admission requirements.

Undergraduate Application Procedures

Prospective students, applying for part-time or full-time undergraduate programs of study, in day or evening classes, must file a complete undergraduate application. The \$55 non-refundable application fee should be in the form of a check or money order payable to The California State University or by credit card if submitting the online application, 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 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.

Impacted Programs

The CSU designates programs to be impacted when more applications are received in the initial filing period (October and November for fall terms, June for winter terms, August for spring terms, February for summer terms) than can be accommodated. Some programs are impacted at every campus where they are offered; others are impacted at some campuses but not all. Students must meet supplementary admissions criteria when applying to an impacted program.

The CSU will announce during 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, and available online at <http://www.calstate.edu/AR/csureview/>. Information about the supplementary criteria also is sent to program applicants.

Students must file their applications for admission to an impacted program during the initial filing period. If they wish to be considered in impacted programs at two or more campuses, they must file an application to each.

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, completion of specified prerequisite courses and a combination of campus-developed criteria. Students required to submit scores on either the SAT I or the ACT should take the test as early as possible and no later than October 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.

Application Filing Periods

Terms in <u>2002-2003</u>	Applications first <u>accepted</u>	Initial Filing <u>Period</u>
Summer quarter 2002	Feb. 1, 2002	February 1-28, 2002
Fall quarter 2002	Oct. 1, 2001	Oct. 1-Nov. 30, 2001
Winter quarter 2003	June 1, 2002	June 1-30, 2002
Spring quarter 2003	Aug. 1, 2002	August 1-31, 2002

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 Office of Admissions and Student Recruitment for current information.

Application Acknowledgment

Students may expect to receive an acknowledgment of their application from their first-choice campus within two to four weeks of filing the application. The notice will also include a request that they submit the records necessary for the campus to evaluate their qualifications. Students may be assured of admission if the evaluation of their qualifications indicates they meet CSU admission requirements, and campus requirements for admission to an impacted program. An offer of admission is not transferable to another term or to another campus.

Hardship Petitions

The campus has established procedures for considering qualified applicants who would be faced with an extreme hardship if not admitted. Prospective hardship petitioners should contact the university regarding specific policies governing hardship admission.

Undergraduate Admission Requirements

Freshman Requirements

Students will qualify for regular admission as a first-time freshman if they

1. are high school graduates (see High School Graduation Equivalency below),
2. have a qualifiable eligibility index (see below), and
3. have completed with grades of "C" (2.0) or better each of the courses in the comprehensive pattern of college preparatory subject requirements (see "Subject Requirements" on the next page). Courses must be completed prior to the first enrollment in the California State University.

Eligibility Index. The eligibility index is the combination of the high school grade point average and the score on either the ACT or the SAT. See [Page 71](#) for revised score requirements. For this purpose, the university computes the grade point average on the final three years of high school studies, excluding physical education and military science, and uses bonus points for approved honors courses. Beginning with admission for Fall 2004, the high school grade point average will be based solely on courses taken in the final three years of high school that satisfy the comprehensive pattern of college preparation subject requirements. Grades of "C" (2.0) or better in up to eight semester courses, taken in the last two years of high school, including up to two approved courses taken in the tenth grade, that are designated honors in approved subjects receive additional points in grade-point-average calculations. Each unit of A in approved courses will receive a total of 5 points; B, 4 points; and C, 3 points.

CSU may offer students early, provisional admission based on work completed through the junior year of high school and planned for the senior year.

Students can calculate the index by multiplying their grade point average by 800 and adding their total score on the SAT I. If they took the ACT, multiply the grade point average by 200 and add ten times the composite score from the ACT. California high school graduates (or legal residents of California for tuition purposes) need a minimum index of 2900 using the SAT I or 694 using the ACT. The table on [Page 543](#) shows the combinations of test scores and averages required. Students who neither graduated from a California high school nor are a resident of California for tuition purposes need a minimum index of 3502 (SAT I) or 842 (ACT). Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

Applicants with grade point averages of 3.0 or above (3.61 for nonresidents) are exempt from submitting test scores. However, students are urged to take the SAT I or ACT because all campuses use test results for advising and placement purposes and may require them for admission to impacted majors or programs.

Students will qualify for regular admission when the university verifies the student has graduated from high school, has a qualifiable eligibility index and has completed the comprehensive pattern of college preparatory subjects and, if applying to an impacted program, meets supplementary criteria.

High School Graduation Equivalency

Students Who Are Not High School Graduates may satisfy the high school graduation requirement by submitting the California Certificate of Proficiency or the General Education Development (GED) certificate or equivalent certificates awarded by other states.

1. *California High School Proficiency Test.* A "pass" on the California High School Proficiency Examination is considered equivalent to graduation from high school.
2. *Tests of General Educational Development (GED).* An applicant submitting scores on the GED has established high school graduation equivalence if the average score for the five tests is 45 or better and each score is at least 40.

Meeting Admission Requirements. Applicants presenting the high school proficiency test or the GED will be expected to meet the fifteen-unit college preparatory subject requirements. Grades in courses completed after grade nine are used to calculate the grade point average for the eligibility index.

Subject Requirements

The California State University requires that first-time freshmen applicants complete, with grades of "C" (2.0) or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school. Within the 15 units completed, up to one unit (one year) in visual and performing arts or foreign language may be missing and offset by a college preparatory course(s) in other areas. The missing unit of visual and performing arts or foreign language must be completed either prior to, or by the end of the first year, of CSU enrollment. This provision is effective through the 2002-2003 academic year.

English, 4 years.

Mathematics, 3 years: algebra, geometry, and intermediate algebra.

U.S. History or U.S. History and Government, 1 year.

Science, 1 year with laboratory: biology, chemistry, physics, or other acceptable laboratory science.

Foreign language, 2 years in the same language (subject to waiver for applicants demonstrating equivalent competence).

Visual and performing arts, 1 year: art, dance, drama/theater, or music.

Electives, 3 years: courses selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts.

Applicants seeking admission as first-time freshmen for the fall 2003 or later terms will have the same preparatory course requirements for admission to either the California State University or the University of California. The preparatory course admission requirements will be the completion of the following courses with a grade of "C" (2.0) or better: four years of English, three years of mathematics (algebra, geometry, and advanced algebra), two years of social science including one year of U.S. history, two years of laboratory science (must include one year of life science and one of physical 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.

Making Up Missing College Preparatory Subject Requirements

Lower division applicants who did not complete 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 admission office for further information about alternative ways to satisfy the subject requirements.

Alternate Admission Criteria

An adjustment to first-time freshman admission standards has been approved for fall 1998 through summer 2003. The adjustment will allow students to be missing up to one unit (one year) of visual and performing arts or foreign language (or one semester of each) as long as they have completed 15 or more college preparatory units. Students must have completed an extra unit in another area to offset the missing unit of visual and performing arts or foreign language.

Students who are admitted with up to one unit (one year) of visual and performing arts or foreign language missing, will be required to complete the missing course by the end of their first year of CSU enrollment. Students may complete the subject area deficiency at a high school during the summer prior to CSU enrollment or a community college, CSU, or other four-year college or university during their first year of enrollment. Further enrollment at CSU will be limited by TRACS registration to completing the missing course if it is not taken by the second year of enrollment.

Subject Requirement Substitution for Students with Disabilities

Applicants with disabilities are 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, alternate 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 failure to complete courses required for admission may limit later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please call the director of Services to Students with Disabilities at CSUSB or at the nearest CSU campus.

Waiver of Foreign Language Subject Requirement

The foreign language subject requirement may be waived for 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 a school counselor or any CSU campus admissions or Office of Admissions and Student Recruitment for further information.

High School Students

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

Fee Waiver Program For California Residents Sixty Years of Age or Older

California State University, San Bernardino offers a program which allows California residents, sixty years of age or older, to enroll in regular session courses without payment of certain specified fees. All regular admission requirements must be met. The program is required to adhere to the following standards: 1) enrollment shall be limited to persons who are California residents as defined by the Education Code, are 60 years of age or older, and are eligible for admission to the university, and 2) persons enrolling in the program will be able to register using the TRACS registration system on last day of TRACS priority registration. If someone applies after priority registration is over, they will register during "late registration" but the \$25.00 late fee will be waived.

Students interested in applying to the "Over 60 Program" or would like more information should contact Melissa McQuead in the Records, Registration and Evaluations Office at 880-5202 or e-mail at mmcquead@csusb.edu.

Provisional Admission

Students who do not achieve a satisfactory score on the English Placement Test (EPT) and/or Entry Level Mathematics test (ELM) will be required to enroll in the appropriate developmental course(s) every term until this deficiency has been made up. If the developmental English and Mathematics courses are not completed within four quarters of enrollment and the student is not ready to take both ENG 101 and MATH 110 or 115 after four terms of study they will be subject to dismissal from the university until these deficiencies are met.

Transfer Applicants

Students who have completed fewer than 84 transferable quarter college units (fewer than 56 semester units) are considered lower division transfer students. Students who have completed 84 or more transferable quarter college units (56 or more semester units) are considered upper division transfer students. Students who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet those admission requirements. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses.

Lower Division Transfer Requirements. Applicants will qualify for admission as a lower division transfer student if they have a grade point average of at least 2.0 ("C") or better in all transferable units attempted, are in good standing at the last college or university attended, and meet any of the following standards:

1. Will meet the freshman admission requirements (grade point average and subject requirements) in effect for the term to which they are applying; or
2. Were eligible as a freshman at the time of high school graduation except for the subject requirements, have been in continuous attendance in an accredited college since high school graduation, and have made up the missing subjects.

Applicants who graduated from high school prior to 1988 should contact the Office of Admissions and Student Recruitment to inquire about alternative admission programs.

Upper Division Transfer Requirements. Applicants will qualify for admission as an upper division transfer student if:

1. they have a grade point average of 2.0 ("C") or better in all transferable units attempted;
2. they are in good standing at the last college or university attended, and they have completed at least 45 quarter (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 45 quarter units must include all the general education requirements in communication in the English language and critical thinking (at least 12 quarter 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.

Test Requirements

Freshmen and transfer applicants who have fewer than 56 semester or 84 quarter units of transferable college credit must submit scores, unless exempt (see "Eligibility Index" on [Page 543](#)) from either the ACT or the SAT I of the College Board. Students applying to an impacted program on campus and who are required to submit test scores should take the test no later than October or November. Test scores also are used for advising and placement services. Registration forms and dates for SAT I or ACT are available from school or college

counselors or from a campus Testing Office or may write to or call:

The College Board (SAT I)
Registration Unit, Box 6200
Princeton, New Jersey 08541-6200
(609) 771-7588

www.collegeboard.org

or

ACT Registration Unit
P.O. Box 414
Iowa City, Iowa 52240
(319) 337-1270

www.act.org

TOEFL Requirement

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 500 (paper-based) on the Test of English as Foreign Language. Some majors may require a higher score. Applicants taking the Computer Based Test of English as a Foreign Language must present a score of 173 or above. Some majors may require higher scores.

Intrasystem and Intersystem Enrollment Programs

Students enrolled at any CSU campus will have access to courses at other CSU campuses on a space available basis unless those campuses or programs are impacted. This access is offered without students being required to be admitted formally to the host campus and sometimes without paying additional fees. Although courses taken on any CSU campus will transfer to the student's home CSU campus as at least elective credit, students should consult their home campus academic advisors to determine how such courses may apply to their degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California community colleges.

CSU Concurrent Enrollment. Matriculated students in good standing may enroll at both their home campus and a host CSU campus during the same term. Credit earned at the host campus is automatically reported to the home campus to be included on the student's transcript at the home campus.

CSU Visitor Enrollment. Matriculated students in good standing enrolled at one CSU campus may enroll at another CSU campus for one term. Credit earned at the host campus is reported automatically to the home campus to be included on the student's transcript.

Intersystem Cross Enrollment. Matriculated CSU, UC or community college students may enroll for one course per term at another CSU, UC or community college and request that a transcript of record be sent to the home campus.

Health Screening

All new and readmitted students, born after January 1, 1957, will be notified of the requirement to present proof of measles and rubella immunizations. All students 18 years of age or younger shall be required to present proof of immunization against hepatitis B. Each incoming freshman who

will be residing in on-campus housing will be required to return a form indicating that they have received information about meningococcal disease and the availability of the vaccine to prevent one from contracting the disease and whether or not he or she has chosen to receive the vaccination. These are not an admissions requirement, but shall be required of students as conditions of enrollment in CSU. California State University, San Bernardino requires that new and readmitted students present proof of immunizations in advance of or during the first quarter of attendance at CSUSB or registration for subsequent quarters will be prohibited.

Other persons subject to these screening provisions include:

- Students who reside in campus residence halls;
- Students who obtained their primary and secondary schooling outside the United States;
- Students enrolled in dietetics, medical technology, nursing, physical therapy, and any practicum, student teaching, or field work involving preschool-age children, school-age children, or taking place in a hospital or health care setting.

The Student Health Center shall provide immunizations without cost to those students unable to obtain acceptable proof of immunizations.

Adult Students

As an alternative to regular admission criteria, an applicant who is 25 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, a "C" (2.0) average or better in all college work attempted.

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

To assess these skills, SAT or ACT scores must be presented prior to determination of admission. The ACT is offered on campus through the Testing Office.

International (Foreign) Student Admission Requirements

The California State University 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 in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of foreign students. For these purposes, foreign students are residents of a country other than the United States or those who hold visas as students, exchange visitors or in other nonimmigrant classifications.

Applicants for admission as either graduates or undergraduates whose education has been in a foreign country

should file an application for admission, official certificates and detailed transcripts of record from each secondary school and collegiate institution attended several months in advance of the opening of the quarter in which the applicant expects to attend. If certificates and transcripts are not in English, they must be accompanied by certified English translations. Credentials will be evaluated in accordance with the general regulations governing admission to California State University, San Bernardino. 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 majors or programs with limited openings.

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

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

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

Upon arrival at California State University, San Bernardino the student should obtain an appointment as early as possible with the International Student Services Office.

Insurance Requirement. Effective August 1, 1995, as a condition of receiving an I-20 or IAP-66 form, all F-1 and J-1 visa applicants must agree to obtain and maintain health insurance as a condition of registration and continued enrollment in the California State University. Such insurance must be in amounts as specified by the United States Information Agency (USIA) and NAFSA: Association of International Educators. The campus president or designee shall determine which insurance policies meet these criteria. Further information can be obtained from the International Student Services Office.

Admission of Postbaccalaureate and Graduate Students

Requirements pertaining to the admission of postbaccalaureate and graduate students are contained in the Graduate Studies section beginning on [Page 361](#).

Returning Students

Students in good standing may be readmitted to the university after an absence of one term by notifying the Office of Records, Registration and Evaluations. The application and fee of \$55 are required if the student was not enrolled in any of the three terms prior to the term for which the student is seeking admission or if the student was enrolled in another in-

stitution during the absence from California State University, San Bernardino. Enrollment through Open University or Extended Learning during fall, winter or spring quarters does not constitute enrollment for this purpose. (See Leave of Absence, [Page 53](#).)

Matriculation Policy

A student is considered matriculated only if they register and pay fees for a given term through the regular campus enrollment. An application and application fee are required if: 1) student was not matriculated in any of the three terms prior to the term in which they plan to register, 2) student was enrolled at another four-year institution during an absence from California State University, San Bernardino, and 3) student has since earned a baccalaureate degree. Enrollment through Open University or Extended Learning does not constitute regular enrollment.

Other Applicants

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

Transfer of Credit

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

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

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

Concurrent Enrollment. Once a student has matriculated at this university, only those courses subsequently taken elsewhere that the university has articulated as being equivalent to courses offered here may be accepted as fulfilling university major or general education requirements. Students planning to take courses off campus must complete a concurrent enrollment contract and file it with the Office of Records, Registration and Evaluations, giving sufficient time to receive a response prior to registering for any off-campus course work. Credit will not be allowed for course work completed without this prior approval. The method in which the course

will be offered must be disclosed and any courses that use non-traditional off-campus delivery systems, such as self-paced instruction, correspondence courses or on-line computer instruction and testing may be required to be proctored through our Counseling and Testing Office. Limits on courses that would create overloads must follow the procedures established by this campus. Upon completion of the course(s), an official transcript must be submitted directly from that school to our Records, Registration and Evaluations Office. See [Page 51](#) for concurrent enrollment at other CSU campuses.

California Articulation Number (CAN)

The California Articulation Number (CAN) System identifies many transferable, lower division, preparation courses commonly taught on California college and university campuses.

The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus. For example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on every other participating campus. Each campus retains its own numbering system, but adds the CAN designation parenthetically in its publications.

Check with counseling offices, departmental offices, or articulation officers for current listings of CAN courses and campuses participating in the CAN System. A CAN Catalog listing campuses and courses is published biannually. A list of the CAN courses offered on this campus can be found on [Page 546](#).

Credit for Standardized External Examinations and Systemwide Examinations

The university shall grant four and a half quarter units of credit for each of the following College Level Examination Program (CLEP) examinations passed at the 50th percentile, provided the examination was not taken previously within the past term and that degree credit has not been granted for previous course work at the equivalent or at a more advanced level than for the examination in question.

- U.S. History
- Social Science
- Biological Science
- Physical Science
- Mathematics (1975 edition)
- Fine Arts
- Literature

No credit will be granted for CLEP English Composition.

The university may also grant credit and advanced standing for CLEP subject examinations, using as minimum standards:

1. That the student submit a score at or above the 50th percentile in the norming group who earned a mark of "C" (2.0) or better;
2. That equivalency to CSUSB courses be determined by the appropriate academic department;
3. That college credit shall have not been previously earned in the courses in question.

Questions regarding the acceptance of other standardized external examinations should be directed to the Office of Records, Registration and Evaluations.

In no case will credit awarded through external examinations count towards residence credit.

English Equivalency Examination. Students passing the California State University English Equivalency Examination shall be awarded a total of 9 quarter units of credit for ENG 101 and ENG 170, provided credit has not been granted previously at the equivalent or at more advanced levels. Further, those who pass this optional examination are exempt from the requirement to take the English Placement Test. Test results must be presented to the Office of Records, Registration and Evaluations for credit to be awarded.

The total amount of credit earned on the basis of externally developed tests which may be applied to a baccalaureate degree shall not exceed 45 quarter units, except that advanced placement credit is excluded from the limit.

Credit by Advanced Placement

Students who have successfully completed courses in the Advanced Placement Program of the College Entrance Examination Board (defined as receiving a score of 3 or better) shall be granted credit for each advanced placement course toward graduation, advanced placement in the university's sequence of courses and credit for curriculum requirements. Test results must be presented to the Office of Records, Registration and Evaluations for credit to be awarded.

Credit for Extension and Correspondence Courses

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

Matriculated students wanting to take correspondence courses must first have the courses approved by following the procedures outlined in the section on Concurrent or Summer Enrollment. All examinations for these courses must be proctored by the University Testing Center.

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

Credit for Military Service

The university grants lower-division undergraduate credit for completion of basic training in the armed forces of the United States. This credit is applied to the physical education and general health requirements.

A limited amount of additional credit may be granted to students who have completed certain service schools in addition to basic training. Credit will only be evaluated if needed for admissibility or toward graduation. This credit is allowed on the basis of recommendations of the Commission on Educational Credit and Credentials of the American Council on Education and must be documented on a DD-214 or DD-295. Credit based on military rank (MOS) will not be awarded.

The total amount of credit earned on the basis of externally developed tests and through recommendations of the commission, which may be applied to a baccalaureate degree, shall not exceed 45 quarter units, except that advanced placement credit is excluded from the limit.

Admission to Teaching Credential Programs

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

Admission as an Auditor

A student who wishes only to audit a course instead of enrolling for credit must complete a statement of residence issued by the Office of Records, Registration and Evaluations. Auditors must pay the same fees as would be charged if the courses were taken for credit.

Enrollment as an auditor is subject to the approval of the instructor. A student registered as an auditor may be required to participate in any or all classroom activities at the discretion of the instructor. Credit for courses audited will not be subsequently granted on the basis of the audit. Transcripts are not issued for students enrolled as auditors only.

Permission to register as an auditor may be done through the Office of Records, Registration and Evaluations on the first day of classes.

Readmission of Previously Disqualified Students

After receiving notice of disqualification, a student may petition the director of Advising and Academic Services for readmission to the university on probation. All petitions for readmission must be submitted to the director of Advising and Academic Services according to the following schedule:

<u>Petition for:</u>	<u>Petition on file on or before:</u>
Fall	September 1
Winter	December 1
Spring	March 1
Summer	June 1

Determination of Residence

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

Use of Social Security Number

Applicants are required to include their correct social security number (individual taxpayer identification number) in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code. The university uses the social security number to identify students and their records for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the university.

Also, the Internal Revenue Service requires the university to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. That information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.

Reservation

The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.

FEE SCHEDULE

2002-2003

Students are required to pay registration fees in accordance with the instructions provided by the Telephone Ready Access System (TRACS) and WebReg. Tuition is not charged to legal residents of California. Non-resident students shall pay tuition in addition to other university fees.

Checks will be accepted at registration only for the amount of fees due. VISA and MasterCard bank credit cards may be used for payment of student fees above \$25. The application fee, identification card and late charge fees are non-refundable.

The following reflects the systemwide fees and expenses for the quarter system in effect when the catalog was printed, and are subject to change:

All students

Application fee (nonrefundable, payable by check or money order at time of applying)	\$55.00
Facilities fee20
State university fee per quarter (all students)	

Undergraduates

0-6 units276.00
6.1 or more units476.00

Graduates

0-6 units292.00
6.1 or more units502.00

Associated Students, Inc. fee

Fall24.00
Winter21.00
Spring21.00
Summer5.00

Coyote One Card

	.5.00
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Student union fee:

Fall76.00
Winter72.00
Spring72.00
Summer term9.00

Health Center service fee

	.34.50
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Instructionally related activities fee:

Fall26.00
Winter24.00
Spring24.00

Nonresidents (foreign and domestic)

Tuition (in addition to other fees charged all students):

per unit164.00
one-half unit82.00

Residence halls (estimated, for academic year)

Double Residence Hall

. . . \$3,215.00+mandatory meal plan \$1,741.00 = \$4,956.00

Single Residence Hall

. . . . \$4,222.00+mandatory meal plan \$1,741.00 = \$5,963.00

Double Apartment, no meal plan required \$4,003.00

Single Apartment, no meal plan required \$4,887.00

Studio Apartment, no meal plan required \$5,602.00

Special fees

Administrative fee	.22.00
Credential fee	.60.00
Various laboratory, activity and art studio fees (consult the Class Schedule for current fees)	.5.00-40.00
Late registration	.25.00
Failure to meet required appointment or time limit	5.00
Grad check/Diploma fee (per major)	.15.00
Grad check/Diploma, late, first filing (per major)	.20.00
Refiling (per major)	.10.00
Late refiling (per major)	.15.00
Diploma replacement fee	.15.00
Change of graduation requirements	.10.00
Enrollment verification	4.00
Graduation certificates	.10.00
Commencement fee	.20.00
Certificate fee	8.00
Change of major	4.00
Parking fees	
Quarter:	
Four-wheel vehicle	.36.00
Two-wheel vehicle (includes mopeds)	9.00
Check returned for any cause or credit card declined	.25-35.00
Lost document replacement	2.00
Transcript of academic record	
Single transcript	4.00
Additional transcripts prepared at the same time, up to 10 transcripts, each	2.00
Additional transcripts prepared at the same time that exceeds the first 10 transcripts, each	1.00
Expedited transcript request	8.00
Faxing unofficial transcript	10.00
Library fees schedule posted at Library circulation desk
Master's degree thesis contact Office of Graduate Studies

Note: Fees subject to change without notice.

State University Fee

A state university fee has been established by the trustees of the California State University to provide financing for various student services programs not covered by state funding.

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, California Education Code Section 68121. Students qualifying for these benefits need to contact the Office of Records, Registration and Evaluations which determines eligibility.

Veterans' Dependents Exemptions

Certain dependents of U.S. veterans with service-connected disabilities and veterans who have been killed in service or died of a service-connected disability may be eligible for waiver of university fees. The annual income of the surviving parent cannot exceed \$8,400. Further information is available from the veterans certification clerk.

Credit/Refund of Fees

Fees may be credited/refunded only as authorized by Sections 42201 (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 or credit of fees. Whether a fee may be refunded and the circumstances under which a refund is possible vary depending on the particular fee involved. Requirements governing refunds may include such matters as the reason (for example, death, disability, compulsory military service), the number of days of instruction which have elapsed prior to withdrawal, and the degree to which the campus has provided the services for which the fee is charged. Details about credits/refunds and the appropriate procedure to be followed may be obtained from the Accounting Office. The last day for credit/refund of fees for each term appears in the *Class Schedule*. **It is the student's responsibility to withdraw from classes prior to requesting a refund.** For refund policy of Extended Learning courses, consult the most recent *Extended Learning Bulletin*.

Upon a student's reduction in units or complete withdrawal from all classes, the following fees may be credited/refunded if withdrawal is done prior to the refund deadline date (see quarterly *Class Schedule*).

- State University Fee
- Associated Students Fee
- Student Union Fee
- Instructionally Related Activities Fee
- Health Fee
- Facilities Fee

Note: Application Fees, Late Registration Fee and Coyote One Card Fee are not refundable.

The credit amount will be applied to the student's account which the student may elect to leave on their account for future quarters. If requesting a refund check, a student must complete a "Refund Request" form and submit to the University Accounting Office, Sierra Hall Room 118. A fee will be retained to cover the cost of processing. **Withdrawals after the established quarterly deadline date will not result in a credit of fees, nor will partial or prorated refunds be granted.**

Students who make changes to their program resulting in a lower fee category may receive a refund consisting of the difference in the higher and lower state university fee, except that a fee will be retained to cover the cost of processing. For further details and exact fees, refer to the quarterly class schedules.

Nonresident tuition is refunded on a prorated basis during the first four weeks of instruction according to the following schedule: 100% before the first week of instruction, 75% dur-

ing the second week, 50% during the third week, 25% during the fourth week. No refund is available after the fourth week. See Page 544 for further information on refund of fees.

Parking fees are refunded, upon surrender of the decal, according to the following prorated schedule. Regular quarter: approximately 66% during the first 25 calendar days of the quarter, approximately 33% during the 26th through 50th calendar days, no refund after the 50th day.

Federal Refund Policy

Effective September 1, 2000, federal financial aid regulations are very strict concerning dropping classes after receiving Federal Grant Aid. Students are expected to complete a minimum number of units per term. By dropping all classes prior to the 60% mark of the term, students will owe a repayment based on a chart of percentages available in the Financial Aid Office. Once a repayment has been calculated, students have 30 days to repay the funds.

Federal financial aid regulations also state that students may not pay a prior debt with future financial aid. This means that students must repay the amount due prior to receiving future financial aid. Before deciding to drop classes, students should visit the Financial Aid Office in University Hall to make an appointment with a financial aid advisor. The advisor will calculate the expected repayment of federal grant funds and will explain options.

Estimated Costs per Quarter

It is estimated that full-time students each quarter pay about \$405 for books and \$410 to \$641 for fees plus parking costs.

Debts Owed to the University

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 merchandise or any combination of the above from any person owing a debt" until the debt is paid (see Sections 42380 and 42381 of Title 5, California Code of Regulations). For example, the institution may withhold permission from any person owing a debt to receive official transcripts of grades. If a student believes he or she does not owe all or part of an asserted unpaid obligation, the student should contact the Accounting Office. The Accounting Office, or another office on campus to which the student may be referred by the Accounting Office, will review the pertinent information, including information provided by the student and will advise the student of its conclusions.

Parking Services

Parking Services is located in TO-209 (behind the Library). Parking personnel can be reached at 880-5912 or 880-5165, or **Parking@mail.csusb.edu**. Parking Services maintains two Information Centers located on University Parkway and on Coyote Drive where information regarding parking and special events is available. Daily parking permits may be purchased at these locations. Parking Services officers provide services such as battery jumps and vehicle lockouts, as well as providing parking and general information. In addition

to enforcing the campus parking regulations, officers patrolling the lots report criminal and suspicious activity directly to Public Safety Dispatch. Parking Services Bicycle Patrol enhances the safety of the parking lots while working with the Public Safety Bicycle Patrol.

The State of California does not provide funds to construct, operate, or maintain parking facilities on state university campuses. Parking fees are collected to fund parking lot repair, maintenance, and the construction of new parking lots.

All vehicles parking on campus must display a permit and/or decal issued by the university. A permit and/or decal is only valid if properly displayed. Quarterly and annual permits may be purchased at the Bursar's Offices located in Sierra Hall and University Hall. During the first two weeks of the quarter, parking permits are available at the Coyote Bookstore. Daily parking permits are available from one of nine ticket dispensers located at University Parkway, Serrano Village Drive, Coyote Drive, Lots A, B, G, and M, and between Lots E and F. Permits are valid in all lots except for those with special designation—the Science Lot and Lot M. 20-minute parking spaces are available throughout the campus, and are marked with green curbs and/or signs. Drivers are cautioned to observe any restrictions posted on curbs or signs throughout the campus, as parking regulations are strictly enforced at all times.

Drivers assume all risks when parking on campus. Neither the university nor the State of California assumes any liability for loss or damage to vehicles or property when parked on university property.

Commuter Services (promoting alternate modes of transportation), which is a branch of Parking Services, is located in University Hall, Room 130, and can be reached at 880-7433 (RIDE). The funding for this program is provided by the use of the fines and forfeiture revenues (parking violation money). Commuter Services is dedicated to promoting alternate modes of transportation to students by providing quarterly car pool permits as well as information on the Metrolink, Omnitrans, car pool lanes, smog forecasts, and parking regulations. Additionally, Commuter Services' mission is to increase the number of students who use an alternate transportation mode so that the number of single occupancy vehicles are reduced.

ACADEMIC REGULATIONS

All students who register at California State University, San Bernardino in resident study must first be admitted to the university by the Office of Admissions and Student Recruitment.

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

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

Students are granted credit only for those courses in which they are formally registered and are responsible for completing all courses under their name on the schedule confirmation list, except those courses they officially change by filing a change of program with the Office of Records, Registration and Evaluations or through TRACS.

Class Level of Students

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

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

Academic Information Sessions

All new students, including entering freshmen and transfers, must attend an Undergraduate Studies Academic Information Session prior to meeting with an advisor and registering. Only students who have been admitted by the university can attend a session. Dates for these sessions are provided by the Office of Admissions and Student Recruitment or the Office of Records, Registration and Evaluations.

Advising and Academic Services faculty and staff conduct each session with information concerning EPT/ELM, basic skills, academic advising, registration, university rules and regulations, credit summaries and university support services. For additional information visit our web site at <http://ug3.csusb.edu/Advising/index.htm>.

Advising

Students must take responsibility for the decisions which affect their academic progress. Faculty and staff at the university are available to assist students by providing academic advisement during their office hours or by appointment.

However, before a student meets with an advisor, the following steps are highly recommended:

1. Become knowledgeable about university policies, procedures and requirements.
2. Update and bring a copy of the *Program Advising Worksheet for Students (PAWS)* to the advising appointment.
3. Develop a tentative course schedule using the *University Bulletin*, *Class Schedule* and *PAWS*.
4. Gather all relevant decision-making information such as work schedules or other time commitments.
5. Prepare a list of questions or topics to discuss with the advisor. This is a good opportunity to discuss educational and career goals.

Students have the opportunity to meet with a faculty advisor each term for help in planning their academic programs and schedules of classes. Usually, the faculty advisor is from the student's major field. To make contact with an advisor, call the appropriate department office as listed in the *Class Schedule*, which also gives information about the university's certificate and credential programs. Students who have not yet declared a major should contact Advising and Academic Services for an appointment. All students should confer with an advisor on a regular basis.

All new freshmen and transfer students are required to attend an information session and meet with an advisor prior to their first registration. Failure to do so will result in a denial of a student's registration request.

First-term undergraduate students who are placed on academic probation must confer with an Advising and Academic Services advisor prior to registration and must adhere to that advisor's specific recommendations which are designed to improve the student's grade point average.

Academic Course Load

Students planning to finish their undergraduate degree requirements in four years by attending three quarters each year must complete a minimum of 15-16 units per quarter. To be considered full-time for veteran's benefits and financial aid purposes, an undergraduate student must enroll in a minimum of 12 units. With their advisor's consent, students may carry up to 19.5 quarter units per term.

Unit Overloads. A student may carry 20 or more units only upon petition to his or her college dean. Course overload cards are available in each college dean's office. Normally, petitions are approved only if both the grade point average for the previous term and the overall grade point average are 3.0 ("B") or better.

Mandatory Basic Skills

College level skills in written communication (composition), computation (mathematics), oral communication, and critical thinking are basic to success at the university. To qualify for Freshman Composition and General Education mathematics courses, all new students must take the English Placement Test (EPT) and the Entry Level Mathematics (ELM) tests before registering for their first quarter of attendance. See [Page 71](#) for exemptions. All new students who have not completed Freshman Composition and the General Education mathematics requirement (or equivalent courses) **must** enroll in a Freshman Composition course (ENG 101) and a General

Education mathematics course (MATH 110, 115, 120, 192, or 211). They must remain enrolled in these courses until each requirement has been completed. Students who do not qualify for enrollment in those courses must enroll in appropriate developmental courses (ENG 85 or 95; MATH 75, 80 or 90, depending on EPT/ELM scores) until they are qualified to enroll in the General Education courses.

Students must complete the remediation in mathematics and English composition during the first year of enrollment unless granted an exception. **Failure to meet these requirements will result in the ending of matriculation at CSUSB. Please contact Academic Services for special circumstances at 880-5034.**

Accelerated Progress

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

In addition, credit-by-examination procedures permit students to demonstrate their mastery of the content of local courses, as described below, or courses offered through the Advanced Placement Program or the subjects tested by the College Level Examination Programs described on [Page 43](#).

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

Credit for Comprehensive Examination Courses

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

In cases where the subject matter of a comprehensive examination course duplicates that of a course taken previously, the university's Repeat of Course policy will apply (see [Page 56](#)). In no instance will duplicate credit be awarded for a repetition of subject matter.

Credit by Examination

A student may petition to receive course credit by examination. In this manner a student who already possesses, or through independent study is able to acquire, the skills or knowledge of the ideas and concepts of a course can accelerate progress through the university. Students must register for the examination in the office of the college or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first two weeks of the term. Courses may be designated by a college, department or appropriate unit as inappropriate to be challenged by examination on the basis that course content is not suited to such examination.

No fee is charged for these examinations. A student who passes an examination is given the grade of CBE (see [Page 55](#) for definition of this grade) for that course, provided that this

does not duplicate credit counted for his admission to the university. No official record is made of failures in these examinations.

Examinations for course credit are given under the following restrictions:

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

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

For regulations concerning credit by examination in graduate programs refer to [Page 368](#).

Concurrent Enrollment

Procedures have been established whereby a student in good academic standing at the California State University, San Bernardino who has completed at least 18 quarter units of work at the university and who is eligible to register as a continuing student for the immediately subsequent term may enroll concurrently at another campus of The California State University system. The procedure enables a student to attend another campus within the system, on a term-by-term basis, without submitting the formal application for admission form and paying the \$55 application fee. For information regarding the procedure, contact the Office of Records, Registration and Evaluations.

To guarantee acceptance, for degree credit, of work taken at institutions other than those within The California State University system, a student must complete a concurrent enrollment contract. These contracts are reviewed by the evaluators in the Office of Records, Registration and Evaluations. See [Page 40](#) for concurrent enrollment (Transfer of Credit) at other institutions.

ROTC Programs

The Army ROTC is a two or four year program which leads to a commission in the U.S. Army and trains students for positions of responsibility in the active Army, Army Reserve, or National Guard. The university has the only ROTC program in San Bernardino and Riverside counties. Scholarships, simultaneous enrollment in the National Guard or Army Reserve, specialized summer training, and other challenging activities are some of the benefits of the program. Students may attend ROTC classes on this campus, and attend any of the other two- or four-year colleges in the area. For more information about Army ROTC at CSUSB, consult the Military Science portion of the catalog, or contact the ROTC Office, Health and Physical Education Building, 880-5533.

The Air Force Reserve Officer Training Corps (ROTC) is an educational program designed to give men and women the opportunity to become an Air Force officer while completing a bachelor's or graduate degree. The Air Force ROTC program is designed to prepare students to assume positions of increasing responsibility and importance while on active duty in the Air Force. Multi-year scholarships are available for books, tuition, and fees associated with various major fields of study. Students may attend ROTC classes on campus while enrolled in any of the area's two or four year colleges. For more information contact the Aerospace Studies Department, Health and Physical Education Building, 880-5440.

Cross-Registration with University of California, Riverside

On a limited basis, students may be permitted to take advantage of courses offered at the nearby University of California campus in Riverside. Note that this opportunity is available only for undergraduate courses not normally offered at CSUSB and is subject to availability of space at UC Riverside after their early registration process is completed. The following conditions apply:

1. A limited number of students may participate.
2. A limit of one course per student per quarter.
3. The student is matriculated and currently enrolled in a degree program.
4. Student must pay sufficient (full) fees at the Home Campus. No additional registration fees will be required at the Host Campus.
5. The desired course is not offered at the Home Campus.
6. Student must be in good academic standing.
7. Student must observe all academic deadlines and regulations of the Host Campus.
8. Enrollment is subject to space availability and consent of the instructor.
9. Student must meet course prerequisites of the Host Campus.
10. Records of grades will be maintained by the Host Campus and forwarded to the Home Campus. The Home Campus will include the "transfer" work on the student's transcript, with a footnote indicating that the course was taken through the exchange program.
11. Residence credit will be granted for courses taken by CSUSB students under this arrangement.

12. Cross-registration students will have the use of library facilities at the Host Campus. The student is not eligible for other student services or facilities.

Check with the Office of Records, Registration and Evaluations for more details and application form.

Class Schedule

An official Class Schedule, prepared each quarter by the university, includes the registration schedule, procedure for registration, fees, classes offered by hours and instructors, and other pertinent registration information. The schedule is available just prior to advisement and early registration each quarter and may be purchased at the Coyote Bookstore. Students are responsible for being aware of information contained in the Class Schedule.

Registration Procedures

All registration, including schedule adjustments (adds and drops) and late registration, will be accomplished by students using touchtone telephones (TRACS) or on the website for WebReg <http://info001.csusb.edu>. It is essential that students follow the required telephone registration or on-line procedures and conform to established deadlines as given each quarter in the Class Schedule.

Simultaneous Enrollment. Procedures have been established whereby a student may enroll in two courses that are scheduled to meet at overlapping times. The student should procure a Petition for Waiver of University Regulations from Advising and Academic Services, meet with instructors for both of the courses involved to make special arrangements, and obtain the written approval of both instructors. The petition must be filed prior to the student's registration for the quarter.

Late Registration

The dates of late registration each term will be announced in the *Class Schedule*. The university calendar, **Pages 4-5**, lists registration dates. Late registrants may find themselves handicapped in arranging their programs due to closed classes. A \$25 late registration fee is required.

Adding Classes

Beginning with the first day of the schedule adjustment period, all students may add classes, subject to appropriate approvals, continuing up to and including the last day to add classes. (See the *Class Schedule*.)

Auditing Courses

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

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

Once enrolled as an auditor, a student may not change to credit status unless such a change is requested within the first

week of class and is approved by the instructor. Students registered for credit may change their status from that of an enrolled student to that of an auditor with the approval of the instructor concerned and within the first three weeks of class.

Forms for such changes may be obtained at the Office of Records, Registration and Evaluations in University Hall.

Class Attendance

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

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

Administrative Drop Policy

Faculty members may initiate an administrative drop of a student in their courses based on the following criteria.

Lack of attendance. Students who fail to attend two consecutive class meetings during the first two weeks of the term without contacting the faculty member or making special arrangements.

Prerequisites not met. Students must be able to show completion of required courses and have the background needed to succeed in the course.

Declared majors. Certain courses are open only to students who have been formally admitted to the major program. Special permission and signature of department chair may be required.

Students who are administratively dropped will receive a notice in the mail. **Students should not assume they are automatically disenrolled unless written confirmation is received. It is the student's responsibility to withdraw from classes prior to requesting a refund.** After the drop is initiated, other students will be permitted to add the class if it was closed.

If the administrative drop reduces the student's unit load to a lower fee level, it is the student's responsibility to file a request for a refund of fees by the deadline printed in the *Class Schedule*. Questions regarding refunds should be addressed to the Accounting Office at 880-5153.

Withdrawal from a Class or the University

(See *Class Schedule* for details.)

Students who find it necessary to withdraw from California State University, San Bernardino after enrolling for any academic term are required to follow the official withdrawal procedures. Failure to follow formal withdrawal procedures may result in the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term.

Students are assigned grades for every course in which they have enrolled. If a student withdraws officially from the university or from a class by the end of the third week of class (see university calendar for exact date), the course is not recorded on the permanent record; **however, a refund will not be granted if withdrawal is beyond the refund deadline date.**

Withdrawal after the third week is permissible only for serious and compelling reasons. Permission to withdraw during this time period must be obtained from the instructor and the college dean.

Withdrawal will not be permitted during the final three weeks of instruction except in cases such as documented personal problems, accident, serious illness, employment change or military orders, where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an Incomplete grade is not practicable. Withdrawal during this period requires the approval of the instructor and the college dean.

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

Students who receive 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.

Retroactive Withdrawal

Requests for withdrawal from a course(s) following the close of the term (retroactive withdrawal) will be considered only for: accident or illness (physical or mental), serious personal or family problems, or military transfer. Documentation is required. In addition, extenuating circumstances must be shown to have prevented withdrawal in a more timely fashion. Partial withdrawal of grades during a term is not permissible unless a special circumstances exists and is approved by the dean of the student's major. All courses must be withdrawn and will be noted with a "W" on the official transcript. Lack of awareness of the withdrawal procedures is not an extenuating circumstance.

Employment-related reasons are not acceptable.

Requests by undergraduates and unclassified postbaccalaureate students must be made in writing to the Director of Advising and Academic Services, UH-380. Requests by credential candidates and graduate students must be made in writing to the Dean of Graduate Studies, AD-127.

Leave of Absence

Any student who plans to be absent from the university for more than two terms including summer must file a leave of absence to preserve the student's current catalog rights (Title 5, Article 5, Sec. 40401). A petition must be filed and approved at the Office of Advising and Academic Services.

The leave of absence policy covers interruptions which are involuntary (medical) or voluntary (military, personal or planned educational leave) if related to the undergraduate student's educational objective. With an approved leave of absence, the student may be absent from the campus without losing rights to specific degree requirements under an earlier catalog, which may be more advantageous for the student.

Petitions for leaves of absence should be filed in advance of the interruption in enrollment. While medical and military leaves may be considered retroactively if supported by individual circumstances, planned educational leaves cannot since

they constitute an agreement or "contract" which must be set in advance.

An application for readmission must be filed by students returning from leaves of one or two terms only if another college or university was attended during the absence.

Students returning from a medical or military leave of absence of more than two terms must file an application for admission and must also pay the current application fee. The maximum duration of a Planned Education Leave is **two calendar years**, with no application fee charged at readmission within the two-year limit. Applications for readmission must be filed within the filing period for the term of return. Filing periods for fall term begin the preceding November 1, for winter term the preceding June 1, and for spring term the preceding August 1.

Students who do not return to CSU, San Bernardino at the conclusion of their planned leaves and those who enroll elsewhere without permission of the Office of Records, Registration and Evaluations will be considered to have withdrawn from the university at the end of their last term of regular enrollment.

Leaves of absence will not be approved for students subject to disqualification or dismissal due to academic deficiencies or disciplinary action. Disqualified students reinstated immediately or readmitted after one term may retain catalog rights.

Students not completing any degree applicable course work or who are enrolling only in extension courses or who are auditing courses are not eligible for leaves of absence.

Medical Leave of Absence: requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. No limit exists on the number of terms of absence allowed, except that leaves for pregnancy are restricted to the term of delivery unless verified medical circumstances indicate a longer time is required for a recuperation. **An application fee is charged at readmission for a leave of three or more terms.**

Military Leave of Absence: requests must be accompanied by a copy of military orders indicating induction date. Twelve terms of absence are the maximum that can be approved. **An application fee is charged at readmission for a leave of three or more terms.**

Planned Educational Leave of Absence: is defined as a planned interruption or pause in a student's regular education during which the student temporarily ceases his or her formal studies at CSU, San Bernardino to pursue other activities that contribute to particular educational goals and objectives. This will not jeopardize the rights and privileges normally associated with continuous attendance. The student must plan to return to CSU, San Bernardino at the end of the leave. Such activities may be for the purpose of clarifying or enriching educational goals and may include travel for educational purposes, on-the-job experience in the area of vocational or educational opportunities, or undertaking expanded responsibilities in an activity related to the student's educational or career goals.

Since students will maintain their catalog rights as when they left, they **MUST** take courses that would transfer back. Therefore, a student must also file a concurrent enrollment form with the Office of Records, Registration and Evaluations for prior approval on the courses they plan to take. Stu-

dents under an Educational Leave who do not file a concurrent enrollment form and who take courses which are not transferable, (i.e. for G.E. Certification from a Community College) would fall under any revised G.E. and major requirements when they return. A planned leave may also be taken to allow time for the solution of personal problems and thus enhance the prospect of successful completion of the student's academic program. **No application fee is charged at readmission for a leave within the two year limit with an approved Planned Educational Leave of Absence.** Postbaccalaureate students are eligible for a leave of absence.

Final Examinations

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

Final Grade

Final grades will be available to students within two weeks after the last day of each quarter except for Fall quarter grades which will be available the first business day of the following January. Grades are accessed through TRACS.

Grade/Academic Grievance Procedures

Information concerning grade grievances and other academic grievances may be obtained from the Office of the Associate Dean of Undergraduate Studies, AD-183. Generally, a grade grievance must be initiated by the student within no more than 40 calendar days after the grade is recorded. The complete policy statement is available at the Office of the Dean of Undergraduate Studies, UH-368, or the Office of the Associate Dean of Undergraduate Studies, AD-183.

Information concerning nonacademic matters may be obtained from the Office of the Vice President for Student Affairs, UH-231, the Women's Resource Center, the Adult Re-Entry Center, the Cross-Cultural Center, Vice Presidents' offices, and College Deans' offices. A grievance or complaint must be filed within no more than 40 calendar days after the student learned or reasonably should have learned of the occurrence of the grievance/complaint event. These policies can also be accessed at <http://studentaffairs.csusb.edu/policies.html>.

Grades

The grade symbols used at the university are as follows:

<u>Grade symbol</u>	<u>Performance level</u>	<u>Grade points per quarter hour</u>
A	Excellent	4.0
A-		3.7
B+		3.3
B	Good	3.0
B-		2.7
C+		2.3
C	Satisfactory	2.0
C-		1.7
D+		1.3
D	Passing	1.0
D-		.7
F	Failing	.0
CR	Credit	
NC	No Credit	

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

Grade point averages are computed by dividing the number of grade points earned by the number of units attempted. Only units and grade points earned by a student while enrolled at this university are used to compute the resident grade point average. Grades from courses numbered 1-99 are not computed in this average.

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

CBE	Credit by Examination
I	Incomplete (Authorized)
RD	Report Delayed
SP	Satisfactory Progress
W	Withdrawal

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

Expanded Grade Symbol Definitions

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

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

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

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

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

CR (Credit): A satisfactory or better level of performance, equivalent to the grade of "C" (2.0) or better, has been demonstrated in meeting course objective. For graduate courses, equivalent to grade of "B" (3.0) or better.

NC (No Credit): Performance at an unsatisfactory or failing level, equivalent to a grade of "C-" (1.7) or less. For graduate courses, equivalent to a grade of less than "B" (3.0). Does not award credit for the course or affect grade point average.

CBE (Credit by Exam): This symbol indicates that a student has successfully passed a course through an examination. It is not included in the calculation of grade point averages.

I (Incomplete): An Incomplete signifies that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A final grade is assigned when the work agreed upon has been completed and evaluated.

An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an Incomplete being counted as equivalent to an F (or an NC if applicable) for grade point average computation. Note: In some instances the instructor may have indicated on the Incomplete Form a grade to be assigned in the eventuality that the remaining course work is not completed.

Students may not receive an "I" grade in any applicable degree course for the term in which their graduation check is filed. Students will be required to refile their grad check for the term in which the outstanding requirements are fulfilled.

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

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

Students may not receive an "SP" grade in any applicable degree course for the term in which their graduation check is filed. Students will be required to refile their grad check for the term in which the outstanding requirements are fulfilled.

U (Unauthorized Withdrawal): The symbol U indicates that an enrolled student did not withdraw from the course but

failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade point average, this symbol is equivalent to an F.

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

Policy on Nontraditional Grading

All courses are graded on an A through F basis, except those specifically designated as follows:

Credit/no credit: Credit is awarded for grades equivalent to "C" (2.0) or better. No credit is awarded for grades equivalent to C- or less.

ABC/no credit: Grades awarded are A, A-, B+, B, B-, C+ or C. No credit is awarded for grades equivalent to C- or less.

Certain activity courses, independent study projects, and other courses serving special needs are not readily evaluated in the traditional A through F manner. The non-traditional credit/no credit grading allows faculty to award credit for satisfactory performance in an activity, rather than assign a letter grade when such performance cannot be evaluated traditionally.

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

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

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

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

Scholarship Standards for Undergraduates

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

1. An undergraduate student shall be subject to probation if, in any academic term, the student fails to maintain either a cumulative grade point average or a grade point average at California State University, San Bernardino of at least 2.0 (grade of "C").
2. An undergraduate student shall be subject to disqualification if while on probation the student's grade point balance either cumulative or at California State University, San Bernardino displays a deficiency in excess of the number permitted for the student's class level pursuant to deficiency levels established by the chancellor. (These levels are currently under review by the chancellor.)

Disqualification levels are as follows:

- a. Lower-division student (fewer than 90 quarter units of college credit), 22.5 grade points below a 2.0 ("C") average in all units attempted or in all units attempted at California State University, San Bernardino;
 - b. Junior (90 to 134.9 quarter units of college work), 13.5 grade points below a 2.0 ("C") average in all units attempted or in all units attempted at California State University, San Bernardino;
 - c. Senior (135 or more quarter units of college work), 9 or more grade points below a 2.0 ("C") average in all units attempted or in all units attempted at California State University, San Bernardino.
3. An undergraduate student who is not on probation may be disqualified if at any time the student's cumulative grade point average falls below 1.0 (grade of "D") and, in the opinion of the appropriate campus authority, it is unlikely in light of the student's overall educational record that the resultant grade point deficiency will be removed in subsequent terms.

A student disqualified for scholarship deficiency may not enroll in any regular term of the university without having successfully petitioned for readmission through the Office of Advising and Academic Services, and may be denied admission to other educational programs operated or sponsored by the university.

Administrative Academic Disqualification

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

Repeat of Courses: Undergraduates

1. The discounting of a grade in a repeated course is by petition only. Petitions should be filed after completion of the course for the second time. Discounting, as used in these guidelines, means that when computing grade point averages required for graduation with a baccalaureate degree, "units attempted," "units passed" and "grade points" for the first attempt shall be excluded. The first attempt will still show on the transcript with the repeat (discount) noted.
2. Students may repeat a course only once in order to have the first grade discounted. The grade earned in the second attempt will be the grade used. Repetitions subsequent to the second attempt will be averaged when determining cumulative grade point averages.
3. The grades in no more than five different courses may be discounted by repeating them.
4. A course may not be repeated for the purpose of removing an Incomplete. Incompletes that have changed to a letter grade or are now being counted as equivalent to an F may be discounted on repeat.
5. Students on dismissal may repeat a course through the Extended Learning Open University program and petition to have the grade earned treated as though it were taken in residence.
6. If the course which was taken at CSUSB is repeated elsewhere, the grades will be averaged in determining a student's overall grade point average. Repeating a course elsewhere will have no effect on a student's CSUSB grade point average.
7. Grades for courses taken at one institution (other than CSUSB) and repeated at another institution (other than CSUSB) will be averaged when determining a student's cumulative transfer grade point average.
8. CSUSB will honor the repeat-of-course policy in effect at the institution issuing the transfer transcript.
9. Students may repeat courses transferred from other institutions at CSUSB and the transfer grade will be discounted if provisions of the pertinent preceding guidelines are met. Course equivalency will be determined by the evaluation section of the Office of Records, Registration and Evaluations or by the department offering the course.
10. Unclassified postbaccalaureate students may be permitted to repeat a course taken as an undergraduate. However, the grade earned shall not replace the grade in the undergraduate record.
11. Courses taken for undergraduate credit may not be repeated for discount as a postbaccalaureate student.

Unless expressly allowed, credit may not be awarded for a course that has been previously completed, either at California State University, San Bernardino, or elsewhere, unless a petition is filed to discount the first attempt.

Graduate students refer to [Page 369](#). Contact Advising and Academic Services, UH-380, 880-5034, for questions regarding grade discounts.

Academic Renewal

Under certain circumstances, a student may petition to have up to two semesters or three quarters of previous course work disregarded from all considerations associated with requirements for the baccalaureate degree. In order for this to happen the following conditions must be met:

1. The work to be disregarded must have been completed at least five years before the date of the petition to disregard it.
2. The student has completed all GE, major and elective requirements with the exception of the cumulative and/or CSUSB grade point average of 2.0. The student must demonstrate that it would be necessary to complete additional units and enroll for one or more additional terms in order to qualify for the baccalaureate if the request were not approved.
3. During the interval since completing the work to be disregarded, the student must have maintained a satisfactory record at CSUSB (22 units with at least a 3.0 grade point average; 45 units with at least a 2.5 grade point average; or 67 units with at least a 2.0 grade point average).
4. Under special circumstances, a student who was admitted on probation through the administrative contract process may petition to have up to three quarters or two semesters of previous coursework disregarded from all consideration for the baccalaureate degree if ALL of the following conditions are fulfilled:
 - a. the work to be disregarded must have been completed at least five years before the date of the petition to disregard it;
 - b. the student must make the request for this academic renewal within the first academic year of attendance at CSUSB;
 - c. during the interval since being admitted and the petition request, the student must have completed a minimum of 8 units and maintained an above satisfactory record at CSUSB with at least a 3.0 grade point average;
 - d. the student must be on administrative contract in Academic Services at the time the petition is filed.

The approval will allow the student to be in good academic standing. Students seeking academic renewal should consult with the Director, Advising and Academic Services (UH-380).

Plagiarism and Cheating

Plagiarism and cheating are violations of the Student Discipline Code (see Appendix) and may be dealt with by both the instructor and the Judicial Affairs Officer. Procedures for addressing cheating and plagiarism are found below. Questions about academic dishonesty and the policy should be addressed to the Office of the Vice President, Student Services.

Plagiarism is the presentation as one's own, the ideas and writing of another. Plagiarism is academically dishonest and subjects the offending student to penalties up to and including expulsion. Students must make appropriate acknowledgments of the original source where material written or compiled by another is used.

Procedure. Allegations of academic dishonesty may be handled directly by the instructor or may be referred by the instructor to the Judicial Affairs Officer.

If handled by the instructor, the instructor has the following responsibilities:

- To preserve the evidence in support of the allegation.
- To notify the student of the allegation and of the evidence on which it is based.
- To provide the student a reasonable opportunity to challenge or rebut the allegation.
- To notify the student of the action being taken.

The instructor may employ any of the following sanctions:

- Verbal or written reprimand.
- Assignment of appropriate task or examination.
- Change of grade, including assigning a punitive grade to the work involving the dishonesty, or for the course, project, thesis, or any other summary evaluation of the student's academic work.

If the student does not wish to accept the sanction proposed by the instructor, the student may request and require that the allegation be referred to the Judicial Affairs Officer. In that event, the procedures specified under Executive Order 628 (Student Disciplinary Procedures of the California State University) shall be observed. The instructor shall not impose any sanction other than the sanction(s) imposed through the disciplinary procedure.

Declaring (or changing) a Major

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

Students may declare a major at the time of admission.

Students entering the university as "undeclared" or those changing their majors should process a Change of Major form through the Office of Records, Registration and Evaluations. Before submitting the Change of Major, students should contact an advisor in the new major for advising. Students who declare a major or change from one major to another following admission will be held to either:

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

A processing fee will be assessed each time a student files a Change of Major form. (See *Class Schedule* for fee.)

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same curriculum in this university, in any of the California community colleges, or in any combination of California community colleges and campuses of the California State University, may, for purposes of meeting graduation requirements, elect to meet the graduation requirements in effect at this university either at the time of entering the curriculum or at the time of graduation from this university, except that substitutions for discontinued courses may be authorized or required by the proper university authorities. (See Leave of Absence, [Page 53.](#))

University Honors

University Honors for graduation. To be considered for University Honors for graduation, an undergraduate student must have completed a minimum of 45 units of work at California State University, San Bernardino in courses for which letter grades (A, B, C and D) were received. University Honors for commencement are based on the student's units and grade point average through the end of the previous winter quarter.

- *Highest Honors:* an overall undergraduate grade point average of 3.9 or above and a grade point average of 3.9 or above in all work attempted at this university.
- *High Honors:* an overall undergraduate grade point average of 3.75 or above and a grade point average of 3.75 or above in all work attempted at this university.
- *Honors:* an overall undergraduate grade point average of 3.5 or above and a grade point average of 3.5 or above in all work attempted at this university.

Dean's List. An undergraduate student completing 12 or more units for which letter grades (A, B, C and D) were received, and who earns a 3.5 or above in any regular academic term will be placed on a Dean's List.

- *Dean's Letter of Recognition.* Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in any regular academic term will receive a letter of special recognition from the appropriate dean.
- *Presidential Letter of Recognition.* Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in three consecutive regular academic terms will receive a letter of special recognition from the president of the university.

Departmental Honors. Individual departments may award departmental honors at graduation, recognizing distinguished students majoring in that field. The requirements to be met to earn honors are specified by the respective departments. Departmental honors are currently awarded in accounting and finance, American studies (track II), anthropology, biology, chemistry, communication, computer science, criminal justice, economics, English, environmental studies, French, health science, history, human services, information and decision sciences, kinesiology, liberal studies, management, marketing, mathematics, music, nursing, philosophy, political science, psychology, public administration, sociology and Spanish.

Graduation Requirement Check

Students must request a graduation requirement check at the Office of Records, Registration and Evaluations prior to the end of the term of their expected graduation. Undergraduates should not request the check until they have accumulated 144 quarter units toward their degree, which may include work in progress. Students must pay for and file the graduation check by the deadlines established for each quarter and published in the academic calendar of the catalog and in the *Class Schedule*.

Students who do not complete the requirements in the terms for which the first graduation check was filed must re-file and pay for a second graduation check indicating the quarter in which graduation is expected. Access to registration for

terms subsequent to the stated graduation term will not be granted unless a graduation check is refiled for a later term or a graduate/postbaccalaureate application is submitted for readmission.

Diplomas

Diplomas are issued for a specific degree only with no concentration, option, track, minor, etc. shown on the diploma. This information is recorded on the student's university transcript.

Students earning a Special Major will automatically receive a diploma stating "Special Major." Students wishing to have a diploma reflect the field of study will need to purchase a duplicate diploma requesting this additional information. Duplicate diploma forms are available in the Office of Records, Registration and Evaluations and require a \$15 processing fee. (Currently under review.)

Commencement

Participation in commencement activities is voluntary. CSUSB has two commencement exercises, one in December and one in June.

December 2002

Summer 2002, prospective December 2002 and March 2003 candidates are eligible to participate in the December 2002 commencement exercise. In order to get commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in October.

June 2003

December 2002, March 2003 and prospective June and September 2003 candidates are eligible to participate in the June 2003 commencement exercises. In order to get commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in April.

Students who do not file graduation checks within the specified time period may still participate in commencement but will not have their names included in the commencement program. Appropriate information will be sent to students. Graduates and candidates wishing to participate in the commencement ceremony will be required to pay a \$20 commencement fee. Questions regarding commencement should be directed to the Academic Affairs/Academic Resources commencement office, 880-7050.

Palm Desert Campus

The Palm Desert Campus holds one Commencement exercise in June. The commencement fee is paid at the Palm Desert Campus. Questions regarding this exercise should be directed to the Palm Desert Campus Administrative Office 760-341-2883. Palm Desert Campus graduates have the option of also participating in the main campus exercises.

Credential Students.

Students completing a Multiple Subject, Single Subject, or Education Specialist Basic credential during September 2002 through August 2003 are eligible to participate in a Credential Recognition Ceremony rather than commencement. Only one Credential Recognition Ceremony will be held in June 2003. Specific information can be obtained in the College of Education Office, FO-182.

Postbaccalaureate Credit for Senior Students

A student, for the term (including summer) in which he or she receives the baccalaureate degree, will be granted post-baccalaureate credit for any course taken at California State University, San Bernardino numbered 300 or above which is not needed to meet undergraduate degree requirements. Students not wishing to receive postbaccalaureate credit for such courses must file a petition in Advising and Academic Services, UH-380, to have the work included in their undergraduate program. Postbaccalaureate credit will not be granted for courses numbered below 300 or for courses numbered 300 or above taken in advance of the last undergraduate term.

Information for Issuance of Transcripts

Single transcripts are issued at a cost of \$4 per copy, payable in advance. (Refer to fee schedule in the *Class Schedule* or this catalog for fees for multiple copies.)

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

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

The university will not issue transcripts to the student, another educational institution or a third party if there is a transcript hold in place. The student must contact the Office of Records, Registration and Evaluations once the hold has been lifted so that the transcript request can be processed.

Access to Records

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

Veterans Information and Enrollment Certification

California State University, San Bernardino, is approved for the training of veterans of the military services and their dependents under educational assistance programs, established by the state and federal governments. Applications for educational benefits may be obtained directly from the veterans certification clerk in the Office of Records, Registration and Evaluations.

Student enrollment certification is based on the following minimum unit loads for undergraduates:

Full time	12 quarter units
3/4 time	9-11.5 quarter units
1/2 time	6-8.5 quarter units

The university will certify course loads to the Veterans Administration based on the criteria above for units which are degree or objective applicable. Veterans enrolled less than half time are eligible for reimbursement of tuition and fees only.

CERTIFICATE PROGRAMS

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

Courses offered for the certificate may be the same ones used to satisfy major, minor, credential or general education requirements. In order to qualify for a certificate, undergraduate candidates must earn a grade point average of 2.0 ("C") or better in applicable course work. Postbaccalaureate candidates must earn a grade point average of 2.5. Standards for individual programs may exceed this minimum. Candidates must also receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

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

Further information regarding the certificates offered by the university can be found under the appropriate department.

Certificate Programs Offered

Accounting

Department of Accounting and Finance, JB-459, 880-5704. Refer to [Page 87](#).

Applied Cultural Anthropology

Department of Anthropology, SB-327J, 880-5502. Refer to [Page 97](#).

Archaeology

Department of Anthropology, SB-327J, 880-5502. Refer to [Page 97](#).

Bilingual/Cross-Cultural Studies: Spanish/English

Department of Foreign Languages and Literatures, UH-314, 880-5847. Refer to [Page 338](#).

Biotechnology

Department of Biology, BI-329, 880-5305. Refer to [Page 116](#).

Business Skills for the Artist

Department of Art, VA-105, 880-5802. Refer to [Page 106](#).

Children's Theatre

Department of Theatre Arts, CA-111, 880-5876. Refer to [Page 347](#).

Coaching

Department of Kinesiology, HP-120, 880-5349. Refer to [Page 245](#).

Communication Skills

Department of Communication Studies, UH-018, 880-5815. Refer to [Page 131](#).

Community College Counseling

Department of Educational Psychology and Counseling, UH-403, 880-5606. Refer to [Page 437](#).

Community Mental Health

Department of Health Science and Human Ecology, HP-235, 880-5339. Refer to [Page 212](#).

Computer Systems and Programming

Department of Computer Science, JB-307, 880-5326. Refer to [Page 137](#).

Conflict Management

Department of Communication Studies, UH-018, 880-5815 or Department of Management, JB-461, 880-5731. Refer to [Page 392](#).

Criminal Justice

Department of Criminal Justice, SB-209, 880-5506. Refer to [Page 143](#).

Crosscultural, Language and Academic Development (CLAD)

Teacher Education Office, FO-126, 880-5650. Refer to [Page 438](#).

Education of the Gifted and Talented

Department of Special Education, UH-403, 880-5606. Refer to [Page 438](#).

Educational Computing

Department of Science, Mathematics and Technology Education, CH-107, 880-5290. Refer to [Page 438](#).

Educational Professional Services

Teacher Education Office, FO-125, 880-5603. Refer to [Page 438](#).

Educational Technology

Department of Science, Mathematics and Technology Education, CH-123C, 880-5290. Refer to [Page 438](#).

Environmental Education

Environmental Education Office, PL-279, 880-5640.

Refer to [Page 439](#).

Fitness Management

Department of Kinesiology, HP-120, 880-5349. Refer to [Page 246](#).

French/English and English/French Translators

Department of Foreign Languages and Literatures, UH-314, 880-5847. Refer to [Page 192](#).

German/English Translators

Department of Foreign Languages and Literatures, UH-314, 880-5847. Refer to [Page 205](#).

Gerontology (Applied)

Department of Sociology, FO-145, 880-5541. Refer to [Page 333](#).

Human Resources

Department of Management, JB-461, 880-5731. Refer to [Page 87](#).

Information Systems Management

Department of Information and Decision Sciences, JB-460, 880-5723. Refer to [Page 87](#).

Intelligence Methodology

National Security Studies Office, SB-112, 880-5534. Refer to [Page 484](#).

International Relations

Department of Political Science, SB-112, 880-5535/5534. Refer to [Page 313](#).

Introductory Actuarial Science

Department of Mathematics, JB-370, 880-5361. Refer to [Page 276](#).

Latin American Studies

Department of Anthropology, SB-327J, 880-5502. Refer to [Page 97](#).

Middle Grade Education

Department of Educational Leadership and Curriculum, UH-401.19, 880-7404. Refer to [Page 439](#).

Museum Studies

Department of Anthropology, SB-327J, 880-5502. Refer to [Page 98](#).

Operations Management

Department of Information and Decision Sciences, JB-460, 880-5723. Refer to [Page 87](#).

Paralegal Studies

Coordinator's Office, SB-209C, 880-5506. Refer to [Page 143](#).

Reading/Language Arts

Department of Educational Leadership and Curriculum, UH-401.19, 880-7405. Refer to [Page 439](#).

Recreation Leadership

Department of Kinesiology, HP-120, 880-5349. Refer to [Page 246](#).

Rehabilitation Counseling

Department of Educational Leadership and Curriculum, UH-401.19, 880-7404. Refer to [Pages 440](#) and [503](#).

Remedial Education in the Elementary School

Department of Educational Leadership and Curriculum, UH-401.19, 880-5650. Refer to [Page 440](#).

Resource Specialist in Special Education

Department of Special Education, UH-403, 880-7406.

Refer to [Page 440](#).

School Business Management

Department of Educational Leadership and Curriculum, UH 401.19, 880-7404. Refer to [Page 440](#).

Social Work

Department of Sociology, SB-327E, 880-5541. Refer to [Page 333](#).

Spanish for Public Services

Department of Foreign Languages and Literatures, UH-314, 880-5847. Refer to [Page 338](#).

Study Strategy Instruction for the Secondary Schools

Teacher Education Office, FO-123, 880-5650. Refer to [Page 441](#).

Teaching Basic Mathematics

Department of Mathematics, JB-370, 880-5361. Refer to [Page 276](#).

Urban Planning

Department of Geography, SB-327J, 880-5519. Refer to [Page 197](#).

Women's Studies

College of Social and Behavioral Sciences, SB-302, 880-5838. Refer to [Page 359](#).

Writing: Creative Writing

Department of English, UH-334, 880-5824. Refer to [Page 176](#).

Writing: Professional Writing

Department of English, UH-334, 880-5824. Refer to [Page 176](#).

EXTENDED LEARNING

College of Extended Learning

Sierra Hall, Room 134

880-5975

<http://cel.csusb.edu>

The College of Extended Learning (CEL) at California State University, San Bernardino is the university's avenue for residents of the Inland Empire to enhance their education. Extended Learning offers a variety of programs and services to extend the resources of the university to the community. These resources include faculty and staff, degree applicable credit, noncredit offerings, facilities and program facilitation and support.

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

EXTENSION PROGRAMS

Extension

A variety of credit and noncredit extension courses are offered to meet the lifelong educational needs of residents in the Inland Empire. Taught by university faculty and academically qualified practitioners, many of these courses provide professional development in business, management, education, health care and other fields, with the aim of improving one's effectiveness on the job or opening doors to new careers.

The College of Extended Learning offers a variety of certificate programs that can help participants gain a competitive edge for upward mobility in their workplace. Excellent instructors are drawn from the university, educational community, business and industry. Current certificate programs include:

Business/Management:

- Administrative Support
- Advanced Management Practices
- Fundamentals of Nonprofit Organizations
- Grant Development & Management
- Human Resources Management
- Management Practices
- Mortgage Banking
- School Business Management

Computer Systems:

- Computer Applications for Business Professionals
- Computer-Aided Drafting (CAD)
- Mechanical Desktop
- P.C. Technical Support Specialist
- Web Page Design

Education:

- Primary Reading Development
- Intermediate Reading Development
- School Business Management
- Science for Elementary Teachers

The 1000-level extension courses offered through Extended Learning are designed with professional growth in mind and, in most cases, apply toward the requirements of SB813 and salary advancement for teachers.

Many extension courses are offered off campus including a variety of courses at the Soda Springs Desert Studies Center near Baker, California. In outdoor classrooms, students can explore the life-ways of early man, archaeology, geology, flora and fauna, art and much more. (See [Page 26.](#))

Extended Learning also offers numerous personal enrichment courses in areas such as writing, recreation, music and travel as well as Elderhostel. An array of exciting courses for kids also is offered on a regular basis. For more information, call 880-5975.

Teacher Inservice Programs

Schools or districts interested in planning a special course or program may contact the College of Extended Learning for assistance. Extended Learning is prepared to aid in the professional development and personal growth of school staff by providing extension credit (inservice programs that meet academic criteria set forth by CSUSB provide participants with extension credit, non-degree applicable credit toward credential renewal and salary increases); and university resources, including CSUSB faculty and facilities. For more information, call 880-5976.

WORKPLACE TRAINING/ CONTRACT PROGRAMS

Utilizing the up-to-date resources of California State University, San Bernardino, the College of Extended Learning's "Performance Performance" division provides consulting services, training development programs, certificate programs, conferences, and educational components for grants on a contractual basis for business (large and small), industry, hospital and health care organizations, and government agencies.

In direct consultation with the participating organization, the College of Extended Learning will develop custom-designed professional development programs including language programs to accelerate the professional effectiveness, productivity and problem-solving skills of the organization's staff. For more information, call 880-5977.

CONFERENCE CONNECTION

The College of Extended Learning's conference services division is recognized as the campus vehicle for providing conference support for educational institutions, professional organizations, business and industry.

Depending upon the scope and content of the particular conference, the College of Extended Learning may be able to provide co-sponsorship, arrange for meeting and meal facilities, locate keynote speakers and other program presenters, provide registration support, certificates of completion and, in many cases, professional advancement continuing education credit in several fields.

The campus is conducive to supporting groups up to 400, providing ample meeting space and a picturesque setting in the foothills of the San Bernardino mountains. The College of Extended Learning also features an extensive off-campus program, managing conferences of more than 3,000 people in a

number of venues in California, the United States and internationally. For more information, call 880-5977.

INTERNATIONAL EXTENSION PROGRAMS

The College of Extended Learning's International Extension Programs (IEP) Office encompasses and supports CEL's many international programs and initiatives, including the very popular American Culture & Language Program (ACLP), and homestay.

The American Culture and Language Program (ACLP)

ACLP is designed for international students, visitors, and professionals who seek:

- an intensive English experience focusing on reading, writing and speaking English
- an introduction to American culture
- pre-MBA/graduate studies preparation
- educational and fun field trips
- TOEFL preparation
- academic counseling
- I-20 form for student visas
- month-long American conversation classes

The American Culture & Language Program offers a ten-week program each quarter, a one-month conversation and culture program, and specially designed intensive five-week programs for smaller groups. Many ACLP students eventually matriculate to California State University, San Bernardino.

Homestay Program

Homestay is a housing option for ACLP students who want to improve their English quickly and learn how American culture really works. Host families from the area want students to become a member of their family. This means spending time with the family in the evenings and on weekends, having fun with them, and participating in daily family activities. A homestay provides a room (single or double), three meals a day, and transportation to and from school.

International Extension Activities

Other programs/activities offered through the International Extension Programs Office include:

- Short-term language contract programs tailored to the needs of specific groups (groups of 20 or more), focusing on second language for special purposes.
- International extension/continuing education programs including travel/study abroad programs, domestic workplace English programs, international extension workshops, contract training programs focused on international business practices, culture, and language acquisition.
- International academic programs coordinated in conjunction with CSUSB's academic colleges and departments, such as CSUSB degree programs abroad, certificate and "diploma" programs.

For information on ACLP, Homestay, or any of the international programs offered through the College of Extended Learning's International Extension Programs Office, call the IEP at 880-5978.

OPEN UNIVERSITY

Most courses listed in the university catalog are open to nonmatriculated students through the College of Extended Learning under a program called Open University. Members of the community who meet the prerequisites may enroll in regular campus courses on a space-available basis. Students can apply up to a maximum of 36 units through Open University toward a bachelor's degree and 13 units toward a master's degree (subject to approval by department concerned).

Open University is designed for those who:

- missed the deadline for admission to the regular resident program
- want to examine a particular field before actually enrolling in a degree program
- want to update professional training
- are considering reentering an academic program, or
- want to take courses not offered through the extended learning program

Students who desire to enroll in Open University classes are required to secure a permit from the College of Extended Learning and obtain approval of the instructor. Currently matriculated students are not allowed to enroll concurrently in the Open University program. For more information, call 880-5975.

UNDERGRADUATE DEGREE PROGRAMS

Office of the Dean of Undergraduate Studies

University Hall, Room 368
880-5032

The Office of the Dean of Undergraduate Studies has oversight in several broad areas including high school preparation, testing, developmental programs in mathematics and English, the General Education program, the University Honors program, academic advising, and research and policy analysis. The purpose of Undergraduate Studies is to assist students in making their academic careers productive and enjoyable. Contact the office with any questions, comments, or concerns about the University's undergraduate academic programs.

The university offers a full range of academic support programs. These programs are a vital part of the extended education the university offers. Advising and Academic Services, the Learning Center, and the Writing Center are all places with which students should be familiar. In support of its mission to help retain and graduate students, Undergraduate Studies also offers a First-Year Seminar designed to introduce students to the University and to provide them with the academic and personal skills necessary to succeed in a university setting. Other programs are targeted for specific students and may have eligibility requirements. All the programs offered by Undergraduate Studies rest on a solid foundation of assessment and data analysis performed by the Office of Research and Policy Analysis. All of the programs are there to give students the best possible experience and to help students successfully achieve their educational goals.

In addition to programs aimed primarily at undergraduate work, there are several programs that help undergraduate students look forward toward graduate studies. These transitional programs include the McNair Scholars program and several programs aimed at preparation for professional schools. These preprofessional programs include pre-engineering, pre-law, and preprofessional programs in medicine, veterinary medicine, dentistry, and pharmacy.

The baccalaureate degree students earn at California State University San Bernardino will represent work done in three broad areas: General Education, courses in a major, and free electives. On [Page 73](#), the General Education program will be explained, and all the courses that comprise the General Education program will be listed. It is important to note that not all of these courses will be offered each quarter. Students should consult the *Class Schedule* to find those courses offered during the current quarter. Following the General Education re-

quirements are several important process requirements that must be attended to in order to obtain an undergraduate degree. Finally, beginning on [Page 77](#) are the program requirements and course descriptions required of baccalaureate degrees, minors, certificates, and credentials with appropriate contact information at the beginning of each section.

UNDERGRADUATE STUDIES

Advising and Academic Services

Advising and Academic Services provides academic advising for all undeclared students, academic retention counseling for all first-time probation students, and information sessions for all new freshman and transfer students. Compliance enforcement for ELM (Entry Level Mathematics)/EPT (English Placement Test), basic skills, upper-division writing, and supervision for the university waiver of regulation petitions are also coordinated through Advising and Academic Services. See <http://ug3.csusb.edu/Advising/index.htm>

The office reviews and acts on the following petition requests: admission by special action, general education course substitutions, retroactive withdrawals, extension of time to remove "Incomplete" grades beyond one year, leave of absence, academic renewal, simultaneous enrollment, drop after census date for undeclared students, and other waivers of university regulations.

In addition, the office provides general education and credit summary assistance for students, academic counseling for continuing probation and dismissed students, educational equity support advising for special admits (TAP program), first-year athletes (ACE program), and supervision for the University Studies 37 study skills course. Electronic Mail (e-mail) Advising is available for students, faculty, staff and the community for academically related inquires.

Advising and Academic Services is located in University Hall, Room 380, 880-5034. The e-mail address is: askcsusb@mail.csusb.edu

Alliance for Academic Preparation (AAP) Program

The AAP Program, funded by the Collaborative Academic Preparation Initiative (CAPI) grant, is a collaborative effort between targeted high schools in our region and CSUSB to help primarily eleventh grade students more adequately prepare themselves for the academic challenges of the university as well as to work with high-school faculty in their efforts to improve student performance. The AAP Program has three major components: faculty-to-faculty alliances, tutoring, and diagnostic testing services.

Faculty-to-Faculty Alliances sends CSUSB Faculty Ambassadors to the high schools. The program also offers a one-week intensive summer conference with topics to be decided by the participating high schools and CSU faculty and staff during the previous academic year. In addition, there is a Writing Inquiry Group component; this group brings together area high school teachers to look at the correlation between the California Standards and the English Placement Test in order to develop strategies for teachers to use as they prepare their students to write more effectively and to perform better on the EPT.

Tutoring, through the Precollegiate Academic Development (PAD) Program, is provided for mathematics and English; tutors for each subject work with students at each of the participating schools.

Diagnostic Testing Services offer the opportunity for each 11th grade student at the participating high schools to use the joint CSU/ETS Diagnostic Writing Service twice. The \$10 per student fee is paid by the grant. The Mathematics Diagnostic Testing Project (MDTP) is also being made available to every 11th grade student at each of the target high schools.

The AAP Program is located in University Hall, Room 368, 880-5864.

Educational Opportunity Program

The Educational Opportunity Program (EOP) is an admissions and support services program designed to assist students who meet specific income guidelines and demonstrate the potential to obtain a baccalaureate degree offered by the university.

Through the Educational Opportunity Program, the student receives help in admissions, registration, financial aid, housing, curriculum planning, tutoring, personal, academic and career counseling, graduate school information, workshops, and other support services, depending upon individual needs. Students who have been enrolled at the university prior to applying to EOP are not eligible to apply to the program. EOP is located in University Hall, Room 395, 880-5042 or visit our web site at <http://ug3.csusb.edu/EOP/index.htm>.

Educational Support Programs

The Office of Educational Support Programs is responsible for assuring that the policy and procedures of the university's Student Grade and Academic Grievance Procedures are maintained in all grievance procedures. The Office also provides support for the university's retention programs for undergraduate students; develops and initiates university-community partnership projects that support the division's goals of enhancing the quality of academic life for students, educational access and graduation, and early outreach. Educational Support Programs is located in Administration (AD), Room 183, (909) 880-5044.

Faculty/Student Mentoring Program

Mentors make a difference. The Faculty/Student Mentor Program (FSMP) pairs experienced CSUSB students with incoming protégés. Student mentors are an invaluable resource for helping new students make the transition to CSUSB. Student mentors help to guide new students through the first year at the university and make sure that they have someone to turn to when questions arise. In addition to being experienced Cal State students, the mentors are given special training, and they are supported by a faculty coordinator. The FSMP also offers at least one special trip designed to enhance the CSUSB educational experience each quarter. FSMP is located in University Hall, Room 368. For information, please call 880-5032.

The First-Year Seminar

The First-Year Seminar (USTD 100A) introduces students to academic and practical skills necessary to succeed at the

university. Upon completion of this course, students will be familiar with the Pfau Library, campus computer facilities, and academic procedures. Students in this course will learn about the academic culture of the university including what it means to be a responsible citizen in the CSUSB community and how personal attitudes will impact the quality of the university experience. The course will offer valuable time management and study skills. The seminar introduces the student to higher learning utilizing a variety of modes of instruction such as guest speakers, discussion, assignments and activity. Goal setting, the importance of understanding personal values, critical thinking and career preparation are all covered in the course, making the First-Year Seminar ideal for all new students and especially valuable for those who are undeclared. Information about the First-Year Seminar can be obtained in University Hall, Room 380, and the phone number there is 880-5034.

Intensive Learning Experience

The Intensive Learning Experience (ILE) program provides instruction and advising for students enrolled in Basic English (ENG 85) and/or Basic Mathematics (MATH 75). Each is a course sequence designed for students who need to improve their skills in these areas prior to enrolling in Freshman Composition and one of the General Education mathematics courses. Participation in the ILE program is determined by scores on the English Placement Test and the Entry Level Mathematics test.

While ILE courses do not count toward the units one needs to graduate, they do carry course-load credit. One of the great attractions of these courses is the small class size. The ILE Program is located in University Hall, Room 368, 880-5032.

Learning Center

The Learning Center provides a variety of free academic support programs for CSUSB students. These include tutoring for many undergraduate courses (except English/writing), use of computers (IBMs and Macintoshes) with free printing, and general study aids. In addition, testing—during limited hours and with the approval of the professor—is administered for students needing make-up exams, students enrolled in self-paced courses, and for those taking challenge exams.

The Learning Center is located in University Hall, Room 351. It has evening hours four nights a week (Monday-Thursday 8:00 a.m.-8:00 p.m.). **Note:** English/writing tutoring is conducted by the separate Writing Center. Visit the Learning Center's web site at <http://dcr.csusb.edu/Learning Center/>.

The Precollegiate Academic Development (PAD) Program

The mission of the Precollegiate Academic Development (PAD) Program is to reduce the number of entering freshmen who need remediation in English and/or mathematics. In order to attain this outcome, the PAD Program, in partnership with the Alliance for Academic Preparation (AAP), works to develop direct relationships between the university's staff, faculty and students and their K-12 counterparts. The goal of these direct, person-to-person relationships is to communicate to school personnel and students the kind and level of performance needed to directly enter baccalaureate-level courses

at the California State University (CSU) without the need to enroll in remedial courses. The program contains the following components:

- A tutoring component, for both the PAD and AAP Programs, which sends California State University students trained as tutors to targeted K-12 classrooms to provide academic enrichment in mathematics and English to students.
- Test preparation workshops for the Entry Level Mathematics (ELM) and English Placement Test (EPT).
- An informational component aimed at disseminating information to K-12 teachers, counselors, administrators and other members of the community regarding CSU English and mathematics articulation requirements.

PAD is located in University Hall, Room 380, 880-5046.

SAIL Program

The SAIL program (Student Assistance in Learning) is the university's federally funded Student Support Services project. Funded by a grant from the U.S. Department of Education, SAIL is designed to assist students who are low-income, disabled, or whose parents have not earned a bachelor's degree. SAIL offers a variety of support services to ensure students' success in college. These include:

- Adjunct courses—two-unit courses designed to help students earn better grades in general education courses.
- Academic and financial aid advising.
- Personal and career counseling.
- College Reading Courses—computer assisted 2-unit courses designed to increase reading speed, vocabulary and comprehension.
- Graduate school information and assistance.
- A variety of educational and enrichment activities such as the SAIL Club and quarterly study marathons.

SAIL serves 325 students each year; the primary enrollment period is September 1st to December 1st. For more information and to determine eligibility for program services, visit the SAIL Office located in University Hall, Room 386 (near the Learning Center), 880-5921 or email to sail@csusb.edu.

Testing

The Testing Office administers tests applicable to admission, academic placement, and academic achievement. Information regarding application procedures, dates, and fees for American College Testing (ACT) (Institutional), California Basic Educational Skills Test (CBEST), English Placement Test (EPT), Entry Level Mathematics (ELM), Graduate Management Admissions (GMAT), Graduate Record Examination (GRE), and Test of English as a Foreign Language (TOEFL), PRAXIS (Professional Assessments for Teachers), U.S. Constitution, U.S. History and California State and Local Government Exams, and Writing Requirement Exemption Exam (WREE) can be obtained by contacting the Testing Office in Jack Brown Hall, Room 405, 880-5041.

Writing Center

The Writing Center, a joint project of Undergraduate Studies and the College of Arts and Letters, works to support both specific writing projects and writing as a mode of learning. Tutors offer individual consultation to students writing in all

disciplines; they focus on generating, developing, and organizing ideas as well as on editing. In addition, they conduct conversation groups for multilingual students and writing workshops in a variety of university classrooms. Faculty writing consultants help other faculty members to design, implement, and evaluate writing projects for courses in all disciplines as well as to revise their own for publication.

The Writing Center is located in University Hall, Room 387 (within the Learning Center, UH-351), 880-5232.

PREPARATION FOR PROFESSIONAL SCHOOLS

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

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

Preprofessional Programs: Medicine, Veterinary Medicine, Dentistry, Pharmacy

The majority of students entering medical and dental schools in the United States do so after having acquired a B.A. or B.S. degree at an undergraduate college. Possession of an undergraduate degree is especially worthwhile, since professional schools do not offer liberal arts subjects.

Any undergraduate major is appropriate for a preprofessional student as long as certain basic subject areas are included in the program. For specific requirements of professional schools, the student is urged to consult special sources such as "Medical School Admission Requirements" (a publication of the Association of American Medical Colleges) or a preprofessional advisor in the College of Natural Sciences.

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

Since preprofessional programs in dentistry place heavy emphasis on biology and chemistry, these are the two majors most often elected by preprofessional students. A preprofessional student majoring in biology should complete the biology core program, supported by courses in chemistry and physics, and should elect MATH 211 and BIOL 342. See [Page 113](#). A preprofessional student majoring in chemistry should complete the chemistry core program, supported by courses in mathematics and physics, and should elect BIOL 342 and 440.

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

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

Pre-engineering Program

Most students earn engineering degrees by attending a university with an accredited program in engineering. Although there are many different engineering disciplines, the first two years of course work is quite similar for most of these fields.

The pre-engineering courses offered allow the student to complete the first two years of courses generic to engineering. Students may then transfer to an accredited engineering program of their choice.

The advantages to students who enter the pre-engineering program are many. Most engineering schools are very competitive and not all qualified students can be accepted as freshmen. However, it is much easier for a student to qualify as a transfer student. Students with math course deficiencies can enter the pre-engineering program and complete their course work at their own pace. Classes here have smaller enrollments than in large engineering schools and provide students with greater opportunities to interact with the faculty.

The physics faculty, working as pre-engineering advisors, help the student design a course of study specific to the engineering field of interest and to the program to which the student will transfer. For detailed course information, refer to the courses listed under the Department of Physics.

Preprofessional Program: Law

Applicants for admission to most law schools are expected to have a B.A. or B.S. degree and to have taken the Law School Admission Test. There is no single "prelaw" major required since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study. However, students headed for law school are well advised to take a small number of selected liberal arts courses in subjects relevant to the law. Accordingly, the College of Social and Behavioral Sciences offers a prelaw minor consisting of such courses. For further information concerning the prelaw minor, see [Page 312](#).

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

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

For additional information, a student should see the bulletins or catalogs of various law schools or the official Prelaw Handbook, current edition, prepared by the Law School Admission Test Council and the Association of American Law Schools. This handbook may be obtained at most college bookstores or ordered from Educational Testing Services, Princeton, N.J. 08540.

McNair Scholars Program

The McNair Scholars Program is a federally funded grant through the U.S. Department of Education and named for astronaut and Challenger Space Shuttle crew member Ronald E. McNair. The program encourages students to pursue graduate studies by providing opportunities to define goals, engage in research, develop skills and build student/faculty mentor relationships critical to success at the doctoral level. The McNair Scholars Program provides selected students with a six-week summer research experience designed to increase skills and encourage enrollment in graduate school. As McNair Scholars, students are paired with faculty members at CSUSB whose research interests match their own.

Applicant requirements:

- Be a junior or senior at CSUSB;
- Be a citizen or permanent U.S. resident;
- Be a first-generation college student from a low-income family and/or belong to a group underrepresented in doctoral studies, including African Americans, Native Americans and Latinos.

For more information or to pick up an application form, visit the McNair Scholars Program office located in AD-143, 9 a.m.-4 p.m., 880-7344 or email: McNair@csusb.edu.

PROGRAM REQUIREMENTS FOR A BACHELOR'S DEGREE

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

1. Complete a minimum of 180 quarter units of college credit. Some majors require more than 180 quarter units to a maximum of 198.
2. Complete 82 quarter units in general education distributed in the manner outlined in the following section titled General Education Program Requirements. Satisfactory scores on the English Placement Test and the Entry Level Mathematics exam are prerequisites for enrollment in the following general education courses:
 ENG 101. Freshman Composition
 MATH 110. College Algebra
 MATH 115. The Ideas of Mathematics
 MATH 120. Pre-Calculus Mathematics
 MATH 192. Methods of Calculus
 MATH 211. Basic Concepts of Calculus
3. Complete all requirements for a major, including at least 20 quarter units of upper-division course work in the major.
4. Complete at least 45 quarter units at this university. (Refer to University Residence Requirement for Graduation, [Page 72](#).)
5. Complete at least 60 quarter units of upper-division work.
6. Earn a grade point average of 2.0 ("C") or better in all units used to fulfill the requirements of the major.

7. Earn a grade point average of 2.0 ("C") or better in all units attempted, and in all units attempted at the university.
8. Complete two quarter units of physical education course work as required in the general education program. Ten additional units of physical education activity courses (numbered KINE 150 and below) for a total of 12 units maximum may be applied toward graduation.
9. Complete the upper-division writing requirement. (Refer to [Page 76.](#))
10. Complete the history, constitution and government requirement. (Refer to History, Constitution, Government Requirement, [Page 76.](#))
11. Be recommended for graduation by the faculty of the university.
12. Have an application for graduation on file prior to the end of the term of graduation.

Systemwide Tests Required of Most New Students

The CSU requires each entering undergraduate, except those who qualify for exemption, to take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they are a condition of enrollment. They are designed to identify entering students who may need additional support in acquiring basic English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their first year of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms. Students register for the EPT and/or ELM at their local CSU campus. Questions about test dates and registration materials may be addressed to the Testing Office, JB-405, 880-5041.

Because basic competency in mathematics and English are fundamental to success at the university, the CSU Board of Trustees has placed a high priority on having students who do not demonstrate such competence gain it as quickly as possible. To that end they have set a maximum of one year for students to complete such work, and their expectation is that campuses will strongly encourage students to complete all remedial work in less time than that. For students graduating from high school in June prior to their admission in the Fall, the allowed time for completing remedial work is July 1st through the following June. Students who delay matriculation are encouraged to begin their remedial work before they begin taking classes in the CSU so that they can also complete their remedial work as quickly as possible.

If all required remedial work is not completed within one year, students **MUST** see an advisor in Advising and Academic Services prior to attending a community college to complete that work and the General Education courses in mathematics and English.

English Placement Test (EPT). The EPT is designed to assess the level of reading and writing skills of entering undergraduate students so that they can be placed in appropriate baccalaureate-level courses. The CSU EPT must be completed by all entering undergraduates with the exception of 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 1995 or later.
- A score of 24 or above on the enhanced ACT English Test taken October 1989 or later.
- A score of 680 or above on the re-centered and adjusted College Board SAT II: Writing Test taken May 1998 or later.
- A score of 3, 4 or 5 on either the Language and Composition or the Composition and Literature examination of the College Board Advanced Placement program.
- Completion and transfer of a course that satisfies the General Education-Breadth or the Intersegmental General Education Transfer Curriculum (IGETC) written communication requirement, provided such a course was completed with a grade of "C" (2.0) or better.

The score obtained on the EPT will determine the appropriate level English composition course for each student. Pre-baccalaureate course work may be required in preparation for the freshman composition course.

EPT scores and required course placement:

- EPT total score of 151 or greater, students must enroll in ENG 101.
- EPT total score in range from 142 to 150 (regardless of EPT essay score), students must enroll in ENG 95.
- EPT total score in range from 0 to 141 (regardless of EPT essay score or units earned), students must enroll in ENG 85A.

Students not exempt from the EPT must have a total score of 151 or greater on EPT, or complete ENG 95 at CSUSB with a grade of "C" or better, or complete ENG 85 with a "CR" before enrolling in Freshman Composition (ENG 101).

Note: Undergraduates who are admitted with 56 or more transferable semester units and are subject to a campus catalog or bulletin earlier than 1986-87 are not required to complete the EPT.

Entry Level Mathematics (ELM) Exam. The ELM examination is designed to assess the skill levels of entering CSU students in the areas of mathematics typically covered in three years of rigorous college preparatory mathematics courses in high school (Algebra I, Algebra II, and Geometry). The CSU ELM must be completed by all entering undergraduates, with the exception of those who 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, IC (Calculator), II or IIC (Calculator).
- A score of 23 or above on the American College Testing Mathematics Test.
- A score of 3 or above on the College Board Advanced Placement mathematics examination (AB or BC) or statistics examination.

- Completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Educational Transfer Curriculum (IGETC) quantitative reasoning requirement, provided such course was completed with a grade of "C" or better.

Student ELM Score

The score obtained on the ELM will determine the appropriate level math course for each student. Pre-baccalaureate course work may be required in preparation for the General Education mathematics course. For students who took the ELM on or before March 16, 2002, the following information should be used to determine placement in the appropriate mathematics course:

- ELM score of 550 or greater, students may enroll in any General Education mathematics course.
- ELM score of 480 to 540, students must enroll in MATH 90.
- ELM score of 350 to 470, students must enroll in MATH 80.
- ELM score of 330 to 340, students have two options available:
 1. Enroll in MATH 80 plus MATH 79 math lab adjunct
 2. Enroll in MATH 75B.
- ELM score 280 to 320, students must enroll in MATH 75B.
- ELM score below 270, students must enroll in MATH 75A.

As of the date of this printing, the new scores related to the respective math courses at CSUSB were not available. The new scale will have test scores ranging from 0 to 80. A student scoring 50 or higher will qualify for a general education math course. However, the remaining score levels will be determined once an equating study can be completed by the CSU Chancellor's Office. For scores below 50, students should contact Advising and Academic Services, 880-5034.

All prerequisite math course work (MATH 75A, 75B, 79, 80, 90) must be completed within one year. The year begins July 1 and ends June 30. If this requirement is not fulfilled within the one-year period, the student **MUST** attend a community college to complete the prerequisite coursework and the General Education mathematics course. Advising and Academic Services has a list of approved equivalent courses. An appointment must be scheduled in this office to discuss the university documents required. The student can return to the university once the Math and English requirements are met. Contact Advising and Academic Services at 880-5034 for more information.

Students not exempt from the ELM must score 550 or greater on the old ELM or a score of 50 or greater on the ELM if taken after March 16, 2002, or complete MATH 90 at CSUSB with a grade of "C" or better before enrolling in any General Education mathematics course.

The EPT and ELM must be taken at the first opportunity after admission or as soon as possible thereafter and before registering for classes.

New students who plan to start taking courses at the university in the Fall term and who do not pass these tests are strongly encouraged to begin their prerequisite math and/or English course work during the summer prior to enrollment to ensure that they will complete that remedial work before the mandatory completion deadline.

Information bulletins and registration materials for the EPT and ELM will be mailed to all students subject to the requirements. The materials may also be obtained from the Office of Admissions and Student Recruitment or the campus Test Office.

Assistance in understanding EPT and ELM test scores and requirements is available at Advising and Academic Services (University Hall, Room 380, 880-5035). Students who do not pass the EPT and/or ELM will be required to take appropriate prerequisite course(s) at CSUSB. Transfer courses are not accepted to meet these prerequisite requirements.

University Residence Requirement for Graduation

A minimum of 45 quarter units must be completed at this university. At least 36 of these units must be upper-division, 18 in the major and 12 in general education. Extension credit, credit by examination or credit by evaluation may not be used to fulfill the minimum residence requirement.

Second Bachelor's Degree Requirements

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

1. General education requirements as stated in the appropriate catalog;
2. Upper-division writing requirement;
3. Requirements of the major involved;
4. In addition to whatever work was presented for the first bachelor's degree, a minimum of 45 quarter units of residence work of which
 - a. 18 units must be in the second major,
 - b. 12 units must be in general education,
 - c. 36 units must be at the upper-division level;
5. Maintain a 2.5 grade point average in all work attempted;
6. Approval of the faculty of the university.

It is not necessary to complete a second bachelor's degree in order to graduate with a dual major; however, only a single diploma is issued in the case of a dual major. Contact the Office of Records, Registration and Evaluations. Students seeking a second bachelor's degree will be subject to the registration policies in effect for unclassified postbaccalaureates. Refer to [Page 46](#) for further information about duplicate degree fees.

Multiple Majors/Concentration

A student will normally meet graduation requirements for a degree in one of the major curricula. A student may be granted a bachelor's degree with two or more major/concentrations if the complete requirements of all curricula are satisfied at the same time. Students graduating with one or more degrees will be issued separate diplomas. The fact that the requirements of multiple concentrations with the same degree have been completed will be noted on the transcript. Graduation check/diploma fees will be required for each separate degree.

Minors

Minors can only be granted for the same term in which the student graduates with an undergraduate degree. The requirements for minors are listed under appropriate majors in the catalog. All minors require a 2.0 grade point average. Minors will not be automatically dropped if the requirements have not been fulfilled by the term for which the student's graduation is posted.

GENERAL EDUCATION PROGRAM

Requirements (82 units)

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

Lower-division courses are intended to foster an ability to think clearly and logically, to find and critically examine information, and to communicate, at an appropriate level, orally and in writing; to acquaint students with the physical universe and its life forms and to impart an understanding of scientific methodology and of mathematical concepts and quantitative reasoning; to cultivate—through the study of philosophy, literature, languages, and the arts—intellect, imagination, sensibility and sensitivity; and to deal with human social, political and economic institutions and their historical background, with human behavior and the principles of social interaction. Upper-division courses include a further requirement in writing as well as integrative capstone courses designed to provide students with an understanding of the interrelationships among disciplines and their applications to contemporary environments. Multicultural and gender issues are given special attention in these courses.

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

The general education program requires a minimum of 82 quarter units.

No substitutions in the general education program are possible without prior approval of a petition submitted to the Office of Advising and Academic Services, UH-380.

Some majors require specific GE courses. Students should consult the catalog for their major's requirements or contact the department.

Note: Courses in Category A should be completed before a student reaches upper-division standing. For upper-division transfer students, this category should be completed within the first 32 units taken at California State University, San Bernardino.

Requirements for General Education Program:

A. Basic Skills Category (12 units)

1. Written Communication
Four units chosen from:
ENG 101. Freshman Composition (4)
HON 103. Language and Meaning (4)*
2. Oral Communication
Four units chosen from:
COMM 120. Oral Communication (4)
HON 103. Language and Meaning (4)*
3. Mathematics
One course listed in the mathematics section of the natural sciences breadth area (category B1).
4. Critical Thinking
Four units chosen from:
COMM 180. Critical Thinking Through Argumentation (4)
HON 103. Language and Meaning (4)*
MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
PHIL 105. Critical Thinking Through Argument Analysis (4)
PHIL 200. Critical Thinking Through Symbolic Logic (4)
PSYC 105. Critical Thinking Through Problems Analysis (4)
SOC 180. Critical Thinking About Social Problems (4)

B. Natural Sciences Breadth Area (20 units)

1. Mathematics
Four units chosen from:
MATH 110. College Algebra (4)
MATH 115. The Ideas of Mathematics (4)
MATH 120. Pre-Calculus Mathematics (4)
MATH 192. Methods of Calculus (4)
MATH 211. Basic Concepts of Calculus (4)
2. Life Sciences
Five units chosen from:
BIOL 100. Topics in Biology (5)
BIOL 202. Biology of Populations (5)
HSCI 120. Health and Society: An Ecological Approach (5)
3. Physical Sciences
A minimum of five units chosen from:
CHEM 100. Chemistry in the Modern World (5)
CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
GEOG 103. Physical Geography (5)
GEOL 101. Introductory Geology (5)
PHYS 100. Physics in the Modern World (5)
PHYS 103. Descriptive Astronomy (5)
PHYS 121. Basic Concepts of Physics I (5)
PHYS 221. General Physics I (5)

* Open only to students accepted in the University Honors Program. The entire HON 103A/103B/103C sequence must be completed before the student will be granted General Education credit in any Basic Skills category.

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4. Special Topics in Science and Technology

Two units chosen from:

- BIOL 216. Genetics and Society (2)
- BIOL 217. Biology of Sexually Transmitted Diseases (2)
- CHEM 105. Chemicals in Our Environment (2)
- CSCI 121. Computer Technology and People (2)
- CSCI 124. Exploring the Information Superhighway (2)
- GEOL 210. Earthquakes: Science and Public Policy (2)

5. Integrative Capstone in the Natural Sciences

Four units chosen from:

- NSCI 300. Science and Technology (4)
- NSCI 310. The Environment and Human Survival (4)
- NSCI 314. Life in the Cosmos (4)
- NSCI 320. Energy (4)
- NSCI 325. Perspectives on Gender (also counts in category G) (4)
- NSCI 351. Health and Human Ecology (4)
- NSCI 360. Legacy of Life (4)

Note: Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
- NSCI 325. Perspectives on Gender
- SSCI 325. Perspectives on Gender

C. Humanities Breadth Area (20 units)

1. Arts

Four units chosen from:

- ART 200. Studies in Art (4)
- HUM 180. The Art of Film (4)
- MUS 180. Studies in Music (4)
- TA 260. Introduction to Theatre (4)

2. Literature

Four units chosen from:

- ENG 110. World Literature I (4)
- ENG 111. World Literature II (4)
- ENG 160. World Drama (4)
- ENG 170. Studies in Literature (4)
- TA 160. World Drama (4)
- TA 212. Oral Interpretation of Literature (4)

3. Foreign Language or Literature in Translation

Four units chosen from:

- FLAN 102. Language Study II (4)
- FLAN 150. Intermediate Language Study (4)
- FREN 102. College French II (4)
- FREN 150. Intermediate French (4)
- FREN 200. Culture and Communication (4)
- FREN 201. Conversation and Composition I (4)
- FREN 202. Conversation and Composition II (4)
- FREN 290. French Literature in English (4)
- GER 102. College German II (4)
- GER 150. Intermediate German (4)
- GER 212. Composition (4)
- GER 214. Conversation (4)
- GER 216. Introduction to Literary Texts (4)
- GER 290. German Literature in English (4)
- JAPN 102. College Japanese II (4)
- JAPN 150. Intermediate Japanese (4)
- MAND 102. College Mandarin II (4)

- MAND 150. Intermediate Mandarin (4)
- SPAN 102. College Spanish II (4)
- SPAN 150. Intermediate Spanish (4)
- SPAN 155. Intermediate Spanish for Spanish Speakers (4)
- SPAN 212. Composition (4)
- SPAN 213. Composition for Spanish Speakers (4)
- SPAN 214. Conversation (4)
- SPAN 290. Spanish and Latin American Literature in English (4)

Note: Credit toward the foreign language or literature in translation category will only be awarded for:

- FLAN 102. Language Study II
- FREN 102. College French II
- GER 102. College German II
- SPAN 102. College Spanish II

To be eligible for general education credit for a foreign language 102 course, a student must have had either less than two years of high school study of the language selected in category C3 or no such study of that language for at least five years prior to admission to the university.

The following rules apply to challenging a course for credit toward this category:

- a. Only courses at the 150-level or higher may be challenged;
- b. Students wishing to challenge a language not offered at this university must be tested at the University of California, Los Angeles Testing Center, where they must achieve a level of Intermediate (ACTFL Stage 2) or above. The student must pay all necessary fees and make all necessary arrangements for the taking of the test and for the official reporting of the results to the Department of Foreign Languages and Literatures;
- c. Students whose language of instruction in secondary school was not English may satisfy this category by submitting official academic transcripts that show completion of secondary school in a country in which the language with which they wish to meet the foreign language requirement was the medium of instruction;
- d. Students who satisfy the Foreign Language/Literature in Translation requirement through b or c above will not receive academic credit and must take four additional units from the Humanities Breadth Area (Category C) to meet the total number of General Education units required for graduation.

4. Philosophy

Four units chosen from:

- PHIL 190. Introduction to Philosophical Issues (4)
- PHIL 191. Introduction to Ethics (4)
- PHIL 192. Introduction to Philosophy of Religion (4)
- PHIL 193. Introduction to Eastern Philosophy (4)
- PHIL 194. Introduction to Knowledge and Reality (4)

5. Integrative Capstone in the Humanities

Four units chosen from:

- HUM 319. Myth, Metaphor and Symbol (4)
- HUM 325. Perspectives on Gender (also counts in category G) (4)
- HUM 330. Arts and Ideas (4)
- HUM 335. The Origin and Contemporary Role of Latino Culture (also counts in category G)(4)

- HUM 340. Interpretation and Values (4)
 HUM 344. Ideas in American Culture (4)
 HUM 350. The Cultures of American Childhood
 (also counts in category G) (4)
 HUM 370. African Heritage in the Arts (also counts
 in category G) (4)
 HUM 380. Comparative Studies in the Arts: East and
 West (also counts in category G) (4)
 HUM 385. A Cultural History of Fashion (4)
Note: Students may receive credit for only one of the
 following courses:
 HUM 325. Perspectives on Gender
 NSCI 325. Perspectives on Gender
 SSCI 325. Perspectives on Gender

**D. Social and Behavioral Sciences Breadth Area
 (20 units)**

- American History and Civilization
 Four units chosen from:
 HIST 146. American Civilization (4)
 HIST 200. United States History to 1877 (4)
 HIST 201. United States History, 1877 to the
 Present (4)
- American Institutions
 PSCI 203. American Government (4)
Note: The American history, constitution, state and
 local government requirement may be met by
 taking:
 PSCI 203. American Government
 and one of the following:
 HIST 146. American Civilization
 HIST 200. United States History to 1877
 HIST 201. United States History, 1877 to
 the Present
 If this requirement is met by examination, then
 students still must take 16 units of lower-divi-
 sion units in this breadth area.
- World Cultures
 Four units chosen from:
 ANTH 140. World Civilizations I, the Rise of
 Civilization (4)
 HIST 140. World Civilizations I, the Rise of
 Civilization (4)
 HIST 142. World Civilizations II, the
 Civilizations of the East and West (4)
 HIST 144. World Civilizations III, the Expansion of
 Europe (4)
 SSCI 165. Regions and Peoples of the World (4)
- Discipline Perspectives
 Four units chosen from:
 ANTH 100. Introduction to Anthropology: Human
 Evolution (4)
 ANTH 102. Introduction to Anthropology: Culture
 and Society (4)
 ECON 104. Economics of Social Issues (4)
 ES 100. Ethnicity and Race in America (4)
 GEOG 100. Introduction to Human Geography (4)
 PSCI 100. Introduction to Political Science (4)
 PSYC 100. Introduction to Psychology (4)
 SOC 100. The Study of Society (4)
 WSTD 100. Introduction to Women's Studies (4)

- Integrative Capstone in the Social and Behavioral
 Sciences
 Four units chosen from:
 SSCI 300. Nonwestern World (4)
 SSCI 304. Contemporary Latin America (4)
 SSCI 315. Cultural Adaptation: The Quest for
 Survival (4)
 SSCI 316. Race and Racism (also counts in category
 G) (4)
 SSCI 320. Understanding Capitalism (4)
 SSCI 321. Urbanization and the Urban
 Environment (4)
 SSCI 325. Perspectives on Gender (also counts in
 category G) (4)
 SSCI 343. Understanding Socialism (4)
 SSCI 345. Religious Expression in America (4)
 SSCI 350. Roots of Modern Racism in America
 (also counts in category G) (4)
Note: Students may receive credit for only one of the
 following courses:
 HUM 325. Perspectives on Gender
 NSCI 325. Perspectives on Gender
 SSCI 325. Perspectives on Gender

E. Lifelong Understanding Category (6 units)

- The Whole Person - Physical and Physiological Issues
 Two units chosen from:
 KINE 205. Foundations for Lifetime Fitness and
 Wellness (2)
 NSCI 110. Health and Self Care (2)
- The Whole Person - Social and Psychological Issues
 Two units chosen from:
 PHIL 101. Moral Choices in Life (2)
 PSYC 115. Personal and Social Adjustment (2)
 SOC 110. Choices in the Life Course (2)
- Physical Education
 Two units chosen from:
 KINE 101. Individual and Dual Activities (2)
 KINE 114. Physical Fitness and Conditioning
 Activities (2)
 KINE 120. Combative and Martial Arts Activities (2)
 KINE 121. Team Activities (2)
 KINE 137. Aquatic Activities (2)
 KINE 147. A Fitness Odyssey (2)
 KINE 149. Independent Activity Project (2)
 KINE 150. Dance Activities (2)
Note: All students are required to complete two units
 of physical education in this category. Ten addi-
 tional units of physical education activity cours-
 es (numbered 150 and below) for a total of 12
 units maximum may be applied toward gradua-
 tion.

F. Upper-division Writing Requirement (0-4 units)

- This requirement can be met by completing one of the fol-
 lowing two options:
- Successfully completing one of the following upper-di-
 vision expository writing courses (4 units):
 EDUC 306. Expository Writing for Education (4)
 ENG 306. Expository Writing (4)
 HUM 306. Expository Writing for the Humanities (4)
 MGMT 306. Expository Writing for Administration (4)

NSCI 306. Expository Writing for the Natural Sciences (4)

SSCI 306. Expository Writing for the Social Sciences (4)

2. Passing a proficiency examination. (0 units)
Students passing the proficiency examination may use the four units as free electives.

G. Multicultural/Gender Requirement Category

All students must take one upper-division course designated as meeting this requirement. The multicultural/gender requirement can be met by completing one of the following two options:

1. Integrative capstone course in one of the three breadth areas (categories B5, C5 or D5)
 - HUM 325. Perspectives on Gender (4)
 - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 - HUM 350. The Cultures of American Childhood (4)
 - HUM 370. African Heritage in the Arts (4)
 - HUM 380. Comparative Studies in the Arts: East and West (4) (credit for this category begins Fall 2001)
 - NSCI 325. Perspectives on Gender (4)
 - SSCI 316. Race and Racism (4)
 - SSCI 325. Perspectives on Gender (4)
 - SSCI 350. Roots of Modern Racism in America (4)
2. One upper-division course from the following:
 - ANTH 325. Human Variation and the Concept of Race (4)
 - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
 - COMM 304. Intercultural Communication (4)
 - COMM 401. Gender, Race and Media (4)
 - CJUS 451. Women and Crime (4)
 - ECON 352. Political Economy of Poverty and Discrimination (4)
 - ENG 314. American Indian Literature (4)
 - HUM 460. Cultural Studies (4)
 - MUS 308. Women in Music (4)
 - MUS 350. Music of World Cultures (4)
 - PA 305. Organizations in Multicultural and Diverse Societies (4)
 - PHIL 364. Philosophy of Race and Ethnicity (4)
 - PHIL 367. Philosophy and Sexual Politics (4)
 - TA 462. African-American Theatre and Drama (4)

Upper-Division Writing Requirement

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

1. Completion with a grade of "C" (2.0) or better of one of the following courses: EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306 or SSCI 306. Prerequisites for 306 courses are: ENG 101 and a minimum of 90 quarter (60 semester) units of college credits.
2. Satisfactory completion of a designated examination. Students passing the proficiency examination may use the four units as free electives.

Students normally shall complete the upper-division writing requirement by the end of the junior year. Further information about the examination (for example, how much it costs, when it is offered, what it covers) is available from the Testing Center, Jack Brown Hall, Room 405, 880-5041. Contact the Office of the Dean of Undergraduate Studies, University Hall, Room 368, 880-5032 for questions about the upper-division writing requirement itself.

History, Constitution, Government Requirement

Each student must demonstrate competence in understanding the Constitution of the United States; American history, institutions and ideals; and the principles of state and local government as established in California.

The requirement in the U.S. Constitution may be met by completing one of the following: HIST 146, 200 and 201, or 540, PSCI 203, 410 or 411.

The requirement in U.S. history may be met by completing one of the following: HIST 146, 200, 201, 540, PSCI 314.

The requirement in state and local government as established in California may be met by completing one of the following: HIST 370 or PSCI 203, 330 or 332.

Note: HIST 540 and PSCI 314 cannot be used to meet the General Education (D.1) American History and Civilization requirement.

Students should note that General Education credit is granted for HIST 146, 200, 201 and PSCI 203 only.

A student can meet the entire U.S. Constitution, U.S. history, and state and local government requirement, while fulfilling general education requirements, by taking PSCI 203 and one of the following: HIST 146, 200 and 201 or 540. The opportunity to meet the requirements by passing an optional examination, which may be repeated once (not in the same quarter), is given to students. However, if this requirement is met by examination, students must still complete 16 lower-division units in the social and behavioral sciences breadth area. Information may be obtained from either the Office of Records, Registration and Evaluations or the College of Social and Behavioral Sciences Office. The examinations are administered through the Testing Office.

ACCOUNTING

Department of Accounting and Finance

Jack Brown Hall, Room 459
880-5704

FACULTY: Frank Bensen, Cynthia Bird, Otto Chang (Chair), John Dorocak, Linvol Henry, Sung-Kyoo Huh, Eldon Lewis, Steven Mintz, Claire Purvis, Christine Schalow, John Scribner, Hossein Shalchi, Mike Trubnick, Curt Westbrook

The university offers concentrations in accounting within the Bachelor of Science in Administration and the Master of Business Administration. A Certificate in Accounting is also available. The details of these programs are listed under Administration on [Page 79](#). The Master of Business Administration can be found on [Page 379](#). The courses listed below are offered in support of these programs. Further information is available from the Department of Accounting and Finance.

COURSE OFFERINGS IN ACCOUNTING (ACCT)

Lower Division

211. Introductory Accounting I

Fundamentals of recording, analyzing, and communicating financial information including income determination, assets and liability relationships and preparation of financial statements. (4 units)

212. Introductory Accounting II

Continuation of Introductory Accounting I with emphasis on interpretation and uses of financial data for decision-making including cost analysis, budgeting, and control. Includes study of the statement of cash flows and long-term debt. Three hours lecture and two hours activity laboratory. Prerequisites: ACCT 211 and INFO 101. (4 units)

Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 89.9 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

315. Accounting Information Systems

Introduction to the concepts, objectives and importance of properly designed accounting information systems. Extensive study of internal controls including systems documentation. Three hours lecture and two hours activity laboratory. Prerequisites: ACCT 212, INFO 101 and 309. (4 units)

347. Management Accounting and Decision Making

Overview of techniques to facilitate business decision-making. Models include break-even analysis, differential costing,

product cost pricing analyses, capital budgeting and investment analysis techniques. The role of budgeting in management planning and control and an examination of cost and revenue variances. Transfer pricing, management compensation and performance evaluation are reviewed in both domestic and international situations. Formerly ACCT 345 and 545. Prerequisite: ACCT 212. (4 units)

372. Intermediate Accounting

In-depth study of the fundamentals of accounting including their applications to current assets. Study of conceptual framework. Includes study of the pronouncements of professional accounting organizations and the Securities Exchange Commission. Three hours lecture and two hours activity laboratory. Prerequisite: ACCT 212, with a grade of "C" or better. (4 units)

373. Problem Areas in Intermediate Accounting

Continuation of ACCT 372 with emphasis on the study of long-term assets, equities and earnings per share. Prerequisite: ACCT 372 with a grade of "C" or better. (4 units)

374. Reporting Issues in Intermediate Accounting

Study of revenue recognition, deferred taxes, pensions and leases. Prerequisite: ACCT 372 with a grade of "C" or better. (4 units)

426. Introduction to Taxation

Introduction to the basic concepts of federal income taxation. Includes history and objectives of the tax, along with the treatment of various types of entities, types of income, types of deductions and types of credits. Emphasis is on the individual as a taxpayer. Prerequisites: ACCT 211 and junior standing. (4 units)

436. Corporate and Partnership Taxation

The basic concepts of the federal income taxation of corporations and partnerships. Formerly ACCT 527. Prerequisite: ACCT 426 with a grade of "C" or better or consent of instructor. (4 units)

439. Advanced Accounting

Advanced topics in accounting including business combinations, multinational operations and foreign currency transactions, liquidations, and reorganizations. Includes partnership formation, income distribution and liquidation. Prerequisite: ACCT 373. (4 units)

440. Financial Statement Auditing

Theory and function of the auditor, viewed from the perspective of public accounting. Topics will include standard audit reports, assessing audit risk, auditor's legal liabilities, tests of controls, and audit evidence. Formerly ACCT 438. Three hours lecture and two hours activity laboratory. Prerequisites: ACCT 315 and 373. (4 units)

441. EDP Auditing and Control

Concepts of auditing in an electronic data processing (EDP) environment. Special attention to control structures in EDP systems. Review of professional literature regarding EDP auditing. Consideration of statistical sampling as an audit tool. Three hours lecture and two hours activity laboratory. Prerequisite: ACCT 440. (4 units)

442. Internal and Operational Auditing

Theory and practice of internal auditing as an operational appraisal activity within firms. Distinction between internal auditing and external, independent auditing. Use of tools to assist management control structures and operations. Focus on evaluating effectiveness, efficiency and compliance of firm activities. Prerequisite: ACCT 373. (4 units)

444. Accounting Law, Ethics and Institutions

Advanced accounting law topics, ethical standards, and institutions for professional accountants. Emphasis on legal problems encountered in the public accounting profession, including an examination of the ethical standards and the political and regulatory institutions that affect the practice of public accounting. Prerequisite: MGMT 330. (4 units)

447. Cost Accounting

Product and service costing with attention to analysis of overhead and multiple allocation techniques. Topics include joint costs, byproducts, spoilage, rework and scrap. Alternative costing systems including operations costing and process costing. Valuation of inventory for decision-making purposes. Procedures for just-in-time inventory management are included. Formerly ACCT 344. Prerequisite: ACCT 347. (4 units)

456. Estates and Gifts and other Specialized Taxation Topics

Taxation topics not covered in depth in ACCT 426 and 436, including gift and estate tax, income taxation of trusts and estates, tax administration and practice, working with tax law, advanced individual income tax topics, and other special topics. Prerequisite: ACCT 426 with a grade of "C" or better or consent of instructor. (4 units)

503. Financial and Managerial Accounting

Intensive introduction to applied topics and techniques in financial and managerial accounting. Development and use of accounting information for external reporting purposes and management analysis, decision-making, planning and control. No credit will be awarded to students who have taken ACCT 211 and 212. May not be counted toward fulfilling requirements for any degree program offered by the College of Business and Public Administration. (4 units)

568. Accounting for Government and Not-for-Profit Organizations

Covers principles and practices of government fund accounting. Topics include governmental accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to government and not-for-profit entities, presentation and uses of financial statements. (Also offered as PA 568. Students may not receive credit for both.) Prerequisite: ACCT 211. (4 units)

575. Internship in Accounting

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Accounting

An intensive study of some phase of accounting to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of project instructor and approval by the department of a written proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

ADMINISTRATION

Accredited by AACSB International, the Association to Advance Collegiate Schools of Business

College of Business and Public Administration

Jack Brown Hall, Room 278
880-5700

Bachelor of Arts

Administration

with concentrations in:

- Business Economics
- Entrepreneurial Management
- Environmental Management
- Finance
- Information Management
- Management
- Management Science
- Marketing
- Operations Management
- Public Administration
- Real Estate
- Transportation and Logistics

Bachelor of Science

Administration

with concentrations in:

- Accounting
- Accounting Information Systems
- Electronic Commerce
- Finance
- Financial Computer Systems
- Information Management
- International Business
- Marketing
- Real Estate

Minor

- Accounting
- Business Administration
- Business Information Mapping
- Finance
- Human Resources Management
- Information Management
- Marketing
- Operations Management
- Public Administration
- Real Estate

Master of Business Administration

(Degree requirements can be found on [Page 379.](#))

Master of Public Administration

(Degree requirements can be found on [Page 498.](#))

Certificate Programs

- Accounting
- Human Resources
- Information Systems Management
- Operations Management

The College of Business and Public Administration offers a major in administration designed to prepare students for careers in business, government service, institutions and related fields.

Within the mission of the university, the College of Business and Public Administration has three central objectives: 1) provide high quality business and public administration programs which will prepare our students for successful careers in business and government; 2) participate in scholarly activities which will assist in keeping our students, faculty, and our constituent businesses and governments abreast of current developments in their respective disciplines; and 3) provide professional service to our university, community and professional organizations. The curriculum, with its core requirements and areas of specialization, provides the student with a broad-based behavioral and quantitative understanding of the concepts of management. The managerial function and decision-making processes are studied with coverage in methods of analysis of quantitative information; judgment and appraisal of social, economic and human relations issues; and effective communication.

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

Students are encouraged to check that they have met the prerequisite requirements for each course in the College of Business and Public Administration in which they are planning to enroll. Prerequisite requirements listed for each course are strictly enforced.

Enrollment in 300-, 400- and 500-level courses in the College of Business and Public Administration is restricted to students who have completed at least 89.9 quarter units (i.e., at least junior class level) and all lower-division courses listed below. Course prerequisites are strictly enforced.

Students who do not meet the stated requirements may be disenrolled from the course(s).

In addition to the grade point average requirements stated on [Page 71](#), an administration major student must earn a grade point average of 2.0 ("C") or better in all units used to fulfill the requirements of the concentration.

B.A. IN ADMINISTRATION

Requirements (92-94 units)

Total units required for graduation: 180

Requirements for the B.A. in Administration:

Lower-division requirements (32 units)

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)
3. ECON 200. Principles of Microeconomics (4)
4. ECON 202. Principles of Macroeconomics (4)
5. INFO 101. Introduction to Information Technology (4)
6. MGMT 230. Business Law (4)
7. MSCI 210. Applied Business Statistics (4)
8. Four units chosen from (also meets the General Education requirement category B1):
MATH 110. College Algebra (4)

- MATH 120. Pre-Calculus Mathematics (4)
 MATH 192. Methods of Calculus (4)
 MATH 211. Basic Concepts of Calculus (4)

Upper-division core requirements (36 units)

1. FIN 313. Business Finance (4)
 2. FIN 314. Corporate Financial Management (4)
 3. INFO 309. Information Management (4)
 4. Four units chosen from:
 - MGMT 302. Management and Organizational Behavior (4)
 - PSYC 302. Management and Organizational Behavior (4)
 5. MGMT 330. Legal Environment of Business (4)
 6. MGMT 490. Strategic Management (4)
 7. MKTG 305. Marketing Principles (4)
 8. OM 304. Principles of Operations Management (4)
 9. PA 315. Government-Business Relations (4)
- Note:** Students choosing the public administration concentration, substitute ECON 475 for FIN 313; PA 472 for FIN 314; PA 307 for MKTG 305 and PSCI 428 for MGMT 490.

Concentration (24 - 26 units)

Choose one concentration from the following:

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

Business Economics Concentration

1. ECON 322. Managerial Economics (4)
2. ECON 335. Economic Analysis with Microcomputers (5)
3. ECON 372. Business Cycles (5)
4. Twelve units chosen from:
 - ECON 333. Political Economy of Women (4)
 - ECON 340. Advanced Economic Analysis with Microcomputers (4)
 - ECON 360. Economics of the Environment (4)
 - ECON 410. Money and Banking (4)
 - ECON 430. International Economics (4)
 - ECON 435. Multinational Corporations (4)
 - ECON 475. Public Finance (4)
 - ECON 490. Introduction to Econometrics (4)
 - ECON 575. Internship in Economics (4)
 - MSCI 400. Decision Methods (4)
 - OM 466. Operations Planning and Control (4)

Entrepreneurial Management Concentration

1. ACCT 315. Accounting Information Systems (4)
2. MGMT 442. Small Business Management (4)
3. MGMT 455. Human Resources Management (4)

4. MGMT 515. Small Business Consulting (4)
5. MKTG 460. Retailing (4)
 or
 one of the following:
 MKTG 420. Advertising (4)
 MKTG 430. Professional Selling and Sales Management (4)
6. Four units chosen from:
 - ACCT 426. Introduction to Taxation (4)
 - ACCT 436. Corporate and Partnership Taxation (4)
 - MGMT 457. Industrial and Labor Relations (4)
 - MGMT 458. Fair Employment Practices (4)
 - MGMT 575. Internship in Management (4)
 - MKTG 420. Advertising (if not taken as a required course) (4)
 - MKTG 430. Professional Selling and Sales Management (if not taken as a required course) (4)
 - MKTG 460. Retailing (if not taken as a required course) (4)

Environmental Management Concentration

1. MGMT 322. Law and Ethics of Environmental Management (4)
2. MGMT 324. International Environmental Management (4)
3. MGMT 326. Natural Resource Management (4)
4. MGMT 428. Environmental Policy and Management (4)
5. Eight units chosen from:
 - ECON 360. Economics of the Environment (4)
 - GEOG 350. Conservation and Natural Resources (4)
 - HSCI 352. Environmental Health (4)
 - HSCI 451. Principles of Epidemiology (4)

Finance Concentration

1. FIN 430. Financial Theory and Practice (4)
2. FIN 432. Financial Institutions and Capital Formation (4)
3. FIN 433. International Business Finance (4)
4. FIN 435. Investment Analysis (4)
5. FIN 445. Financial Analysis and Decision-Making (4)
6. Four units chosen from:
 - ACCT 372. Intermediate Accounting (4)
 - ACCT 373. Problem Areas in Intermediate Accounting (4)
 - ACCT 426. Introduction to Taxation (4)
 - ACCT 436. Corporate and Partnership Taxation (4)
 - ECON 410. Money and Banking (4)
 - ECON 475. Public Finance (4)
 - FIN 360. Financial Planning Process and Insurance (4)
 - FIN 380. Principles of Real Estate (4)
 - FIN 534. Export-Import Financing (4)
 - FIN 575. Internship in Finance (4)
 - FIN 585. Real Estate Finance (4)
 - MGMT 442. Small Business Management (4)
 - MSCI 360. Statistical Analysis for Management (4)
 - MSCI 400. Decision Methods (4)

Information Management Concentration

1. Eight units of electives chosen from any 100- or 200-level INFO courses.
2. INFO 372. Information Technology (4)
3. INFO 378. Information Problem Solving (4)
4. Eight units of electives chosen from any 300-, 400- and 500-level INFO courses.

Management Concentration

1. Sixteen units chosen from:
 - MGMT 335. Business and Society (4)
 - MGMT 350. Administrative Communications (4)
 - MGMT 451. Organization and Management Theory (4)
 - MGMT 455. Human Resources Management (4)
 - MGMT 515. Small Business Consulting (4)
 - MGMT 590. Seminar in Management (4)
2. Eight units chosen from one of the speciality areas listed below:

Management Speciality Area

- MGMT 402. Studies in Organizational Behavior (4)
- MGMT 405. International Operations (4)
- MGMT 432. Human Factors in System Development (4)
- MGMT 459. Work Group Management (4)
- MGMT 575. Internship in Management (4)

Human Resources Speciality Area

- MGMT 456. Psychology of Human Resources (4)
- MGMT 457. Industrial and Labor Relations (4)
- MGMT 458. Fair Employment Practices (4)
- MGMT 575. Internship in Management (4)

3. MGMT 998. Management Portfolio Assessment (0)

Management Science Concentration

1. MSCI 360. Statistical Analysis for Management (4)
2. MSCI 400. Decision Methods (4)
3. MSCI 467. Research Methods (4)
4. OM 466. Operations Planning and Control (4)
5. OM 480. Quality Management (4)
6. Four units chosen from:
 - MSCI 477. Decision Support Systems (4)
 - MSCI 575. Internship in Management Science (4)

Marketing Concentration

1. MKTG 410. Consumer Behavior (4)
2. MKTG 416. Marketing Research (4)
3. MKTG 436. Marketing Decision-Making (4)
4. MKTG 496. Marketing Planning and Strategy (4)
5. Four units of electives chosen from:
 - MKTG 420. Advertising (4)
 - MKTG 430. Professional Selling and Sales Management (4)
6. Four units of 400- or 500-level MKTG courses not previously taken.

Operations Management Concentration

1. MSCI 360. Statistical Analysis for Management (4)
2. OM 466. Operations Planning and Control (4)
3. OM 468. Operations Management and Design (4)
4. OM 470. Supply Chain Management (4)

5. OM 480. Quality Management (4)
6. Four units chosen from:
 - MGMT 432. Human Factors in System Development (4)
 - MSCI 400. Decision Methods (4)
 - MSCI 467. Research Methods (4)
 - OM 575. Internship in Operations Management (4)

Public Administration Concentration

1. PA 380. Introduction to Public Administration (4)
2. PA 462. Public Personnel Administration (4)
3. PA 463. Governmental Budgeting (4)
4. PA 490. Senior Assessment Seminar in Public Administration (4)
5. Eight units chosen from:
 - PA 305. Organizations in Multicultural and Diverse Societies (4)
 - PA 514. Management of Private Nonprofit Organizations (4)
 - PA 516. Public and Non-Profit Project Management (4)
 - PA 521. Principles of Planning (4)
 - PA 548A. Management of Computers in the Public Sector: Word Processing (4)
 - PA 548B. Management of Computers in the Public Sector: Data Base Management (4)
 - PA 548C. Management of Computers in the Public Sector: Spread Sheets (4)
 - PA 548D. Management of Computers in the Public Sector: Communication (4)
 - PA 548F. Management of Computers in the Public Sector: Special Problems (4)
 - PA 557. Public Sector Labor Relations (4)
 - PA 564. Local Public Administration (4)
 - PA 568. Accounting for Government and Not-for-Profit Organizations (4)
 - PA 575. Internship in Public Administration (4)
 - PA 590. Seminar in Public Administration (4)
 - PA 595B. Independent Study (2) (with consent of department chair)
 - PA 595D. Independent Study (4) (with consent of department chair)

Real Estate Concentration

1. FIN 380. Principles of Real Estate (4)
2. FIN 432. Financial Institutions and Capital Formation (4)
3. FIN 480. Real Estate Appraisal (4)
4. Four units chosen from:
 - FIN 485. Legal Aspects of Real Estate (4)
 - FIN 581. International Aspects of Real Estate (4)
 - FIN 585. Real Estate Finance (4)
6. Four units chosen from:
 - ACCT 347. Management Accounting and Decision Making (4)
 - ACCT 372. Intermediate Accounting (4)
 - ACCT 373. Problem Areas in Intermediate Accounting (4)
 - ACCT 426. Introduction to Taxation (4)
 - ACCT 436. Corporate and Partnership Taxation (4)
 - ECON 410. Money and Banking (4)

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- FIN 360. Financial Planning Process and Insurance (4)
FIN 430. Financial Theory and Practice (4)
FIN 433. International Business Finance (4)
FIN 435. Investment Analysis (4)
FIN 445. Financial Analysis and Decision-Making (4)
FIN 485. Legal Aspects of Real Estate (4) (if not taken as a required course)
FIN 575. Internship in Finance (4)
FIN 581. International Aspects of Real Estate (4) (if not taken as a required course)
MKTG 430. Professional Selling and Sales Management (4)

Transportation and Logistics Concentration

1. INFO 280. Information Mapping and Data Visualization (4)
2. MKTG 350. Logistics (4)
3. MKTG 452. Transportation (4)
4. OM 468. Operations Management and Design (4)
5. OM 470. Supply Chain Management (4)
6. PA 473. Public Transportation Planning, Policy and Regulation (4)

B.S. IN ADMINISTRATION

Requirements (112 units)

Total units required for graduation: 198

Requirements for the B.S. in Administration:

Lower-division requirements (32 units)

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)
3. ECON 200. Principles of Microeconomics (4)
4. ECON 202. Principles of Macroeconomics (4)
5. INFO 101. Introduction to Information Technology (4)
6. MGMT 230. Business Law (4)
7. MSC1 210. Applied Business Statistics (4)
8. Four units chosen from (also meets the General Education requirement category B1):
MATH 110. College Algebra (4)
MATH 120. Pre-Calculus Mathematics (4)
MATH 192. Methods of Calculus (4)
MATH 211. Basic Concepts of Calculus (4)

Upper-division core requirements (36 units)

1. FIN 313. Business Finance (4)
2. FIN 314. Corporate Financial Management (4)
3. INFO 309. Information Management (4)
4. Four units chosen from:
MGMT 302. Management and Organizational Behavior (4)
PSYC 302. Management and Organizational Behavior (4)
5. MGMT 330. Legal Environment of Business (4)
6. MGMT 490. Strategic Management (4)
7. MKTG 305. Marketing Principles (4)
8. OM 304. Principles of Operations Management (4)
9. PA 315. Government-Business Relations (4)

Concentration (44 units)

Choose one concentration from the following:

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

Accounting Concentration

1. ACCT 315. Accounting Information Systems (4)
 2. ACCT 347. Management Accounting and Decision Making (4)
 3. ACCT 372. Intermediate Accounting (4)
 4. ACCT 373. Problem Areas in Intermediate Accounting (4)
 5. ACCT 426. Introduction to Taxation (4)
 6. ACCT 440. Financial Statement Auditing (4)
 7. Twenty units to be chosen from the following (in consultation with advisor):
ACCT 374. Reporting Issues in Intermediate Accounting (4)
ACCT 436. Corporate and Partnership Taxation (4)
ACCT 439. Advanced Accounting (4)
ACCT 441. EDP Auditing and Control (4)
ACCT 442. Internal and Operational Auditing (4)
ACCT 444. Accounting Law, Ethics and Institutions (4)
ACCT 447. Cost Accounting (4)
ACCT 456. Estates and Gifts and other Specialized Taxation Topics (4)
- May choose only one of the following two courses:
- ACCT 568. Accounting for Government and Not-for-Profit Organizations (4)
 - PA 568. Accounting for Government and Not-for-Profit Organizations (4)
- ACCT 575. Internship in Accounting (4)
 - ACCT 590. Seminar in Accounting (4)
 - ACCT 595. Independent Study (2-4)

Accounting Information Systems Concentration

1. ACCT 315. Accounting Information Systems (4)
2. ACCT 347. Management Accounting and Decision Making (4)
3. ACCT 372. Intermediate Accounting (4)
4. ACCT 373. Problem Areas in Intermediate Accounting (4)
5. ACCT 426. Introduction to Taxation (4)
6. ACCT 440. Financial Statement Auditing (4)
7. CSCI 201. Computer Science I (4)
8. CSCI 202. Computer Science II (4)
9. Twelve units chosen from:
CSCI 330. Data Structures (4)
CSCI 455. Software Engineering (4)
INFO 274. Data Base Management (4)
INFO 275. Information Networking (4)
INFO 276. Systems Analysis and Design (4)

- INFO 372. Information Technology (4)
 INFO 474. Advanced Data Base Management (4)
 INFO 475. Advanced Information Networking (4)
 INFO 476. Advanced Systems Analysis and Design (4)

Electronic Commerce Concentration

1. INFO 274. Data Base Management (4)
2. INFO 275. Information Networking (4)
3. INFO 282. Business Systems I (4)
4. INFO 283. Business Systems II (4)
5. INFO 285. Electronic Commerce (4)
6. INFO 474. Advanced Data Base Management (4)
7. INFO 485. Advanced Electronic Commerce (4)
8. MKTG 540. E-Marketing (4)
9. Twelve units chosen from:
 - ACCT 372. Intermediate Accounting (4)
 - ACCT 373. Problem Areas in Intermediate Accounting (4)
 - INFO 140A. The World Wide Web and Multimedia: Web Page Design (2)
 - INFO 140B. The World Wide Web and Multimedia: Web Master Administration (2)
 - INFO 140C. The World Wide Web and Multimedia: Multimedia (2)
 - INFO 372. Information Technology (4)
 - INFO 378. Information Problem Solving (4)
 - INFO 475. Advanced Networking (4)
 - INFO 490. Information Systems Planning and Policy (4)
 - OM 468. Operations Management and Design (4)

Finance Concentration

1. Four units chosen from:
 - FIN 360. Financial Planning Process and Insurance (4)
 - FIN 380. Principles of Real Estate (4)
2. FIN 430. Financial Theory and Practice (4)
3. FIN 432. Financial Institutions and Capital Formation (4)
4. FIN 433. International Business Finance (4)
5. FIN 435. Investment Analysis (4)
6. FIN 445. Financial Analysis and Decision-Making (4)
7. Twenty units of electives chosen from:
 - ACCT 372. Intermediate Accounting (4)
 - ACCT 373. Problem Areas in Intermediate Accounting (4)
 - ACCT 426. Introduction to Taxation (4)
 - ACCT 436. Corporate and Partnership Taxation (4)
 - ACCT 447. Cost Accounting (4)
 - ACCT 456. Estates and Gifts and other Specialized Taxation Topics (4)
 - ECON 410. Money and Banking (4)
 - ECON 475. Public Finance (4)
 - FIN 360. Financial Planning Process and Insurance (if not taken previously) (4)
 - FIN 380. Principles of Real Estate (if not taken previously) (4)
 - FIN 480. Real Estate Appraisal (4)
 - FIN 534. Export-Import Financing (4)

- FIN 575. Internship in Finance (4)
 FIN 585. Real Estate Finance (4)
 FIN 590. Seminar in Finance (4)
 MGMT 442. Small Business Management (4)
 MSCI 360. Statistical Analysis for Management (4)
 MSCI 400. Decision Methods (4)

Note: Students interested in taking the CFP examination should take the following as their electives: ACCT 426, 436, 456 and FIN 360.

Financial Computer Systems Concentration

1. CSCI 201. Computer Science I (4)
2. CSCI 202. Computer Science II (4)
3. CSCI 330. Data Structures (4)
4. FIN 430. Financial Theory and Practice (4)
5. FIN 432. Financial Institutions and Capital Formation (4)
6. FIN 435. Investment Analysis (4)
7. FIN 445. Financial Analysis and Decision-Making (4)
8. MATH 272. Discrete Mathematics (4)
9. Twelve units chosen from:
 - CSCI 360. System Tools (4)
 - CSCI 365. System Administration (4)
 - CSCI 366. System Networking (4)
 - CSCI 455. Software Engineering (4)
 - INFO 372. Information Technology (4)
 - INFO 474. Advanced Data Base Management (4)
 - INFO 475. Advanced Information Networking (4)
 - INFO 476. Advanced Systems Analysis and Design (4)

Information Management Concentration

1. INFO 274. Data Base Management (4)
2. INFO 275. Information Networking (4)
3. INFO 372. Information Technology (4)
4. INFO 378. Information Problem Solving (4)
5. INFO 490. Information Systems Planning and Policy (4)
6. Twenty-four units chosen from one of the following speciality areas:

Computer Information Systems Speciality Area

1. INFO 276. Systems Analysis and Design (4)
2. INFO 474. Advanced Data Base Management (4)
3. INFO 475. Advanced Information Networking (4)
4. INFO 476. Advanced Systems Analysis and Design (4)
5. Eight units chosen from any INFO or CSCI major courses.

Information Management Speciality Area

1. Twenty-four units chosen from any INFO courses (16 units must be from 300-, 400- and 500-level courses).

International Business Concentration

1. FIN 433. International Business Finance (4)
2. MGMT 405. Management of International Operations (4)
3. MGMT 406. International Business Law (4)

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4. MKTG 470. International Marketing Management (4)
 5. Four units chosen from:
 - ECON 430. International Economics (4)
 - ECON 435. Multinational Corporations (4)
 6. Twelve units in the same language chosen from the following categories:
 - A. FREN 202. Conversation and Composition II (4)
 - FREN 309. French for Translators (4)
 - FREN 350. Advanced French Composition (4)
 - B. GER 214. Conversation (4)
 - GER 309. Advanced German Composition (4)
 - GER 312. Business German (4)
 - C. SPAN 212. Composition (4)
 - SPAN 302. Theory and Practice in Composition (4)
 - SPAN 314. Advanced Conversation (4)
 - D. Twelve units of upper-division course work in the same language other than French, German, or Spanish.
- Note:** Students may have any or all of the above listed foreign language courses waived by demonstrating equivalent language proficiency. Responsibility for determining this proficiency rests with the Chair of the Department of Management after consultation with the Foreign Languages and Literatures Department Chair. Students having any of these foreign language courses waived must substitute an equal number of units from the electives listed below.
7. Twelve units chosen from:
 - ANTH 485. Applied Anthropology and Social Policy (4)
 - ECON 430. International Economics (4) (if not taken previously)
 - ECON 435. Multinational Corporations (4) (if not taken previously)
 - FIN 534. Export-Import Financing (4)
 - MGMT 305. International Organizational Behavior (4)
 - MGMT 324. International Environmental Management (4)
 - MKTG 572. Import-Export Management (4)

Marketing Concentration

1. MKTG 350. Logistics (4)
2. MKTG 410. Consumer Behavior (4)
3. MKTG 416. Marketing Research (4)
4. MKTG 420. Advertising (4)
5. MKTG 430. Professional Selling and Sales Management (4)
6. MKTG 436. Marketing Decision-Making (4)
7. MKTG 496. Marketing Planning and Strategy (4)
8. Sixteen units chosen from:
 - MKTG 415. Product Management (4)
 - MKTG 438. Industrial Marketing (4)
 - MKTG 446. Advertising Campaign (4)
 - MKTG 460. Retailing (4)
 - MKTG 462. Merchandising (4)
 - MKTG 470. International Marketing Management (4)
 - MKTG 520. Integrated Marketing Communication (4)
 - MKTG 530. Strategic Entrepreneurship (4)
 - MKTG 540. E-Marketing (4)
 - MKTG 560. Services Marketing (4)

- MKTG 572. Import-Export Management (4)
- MKTG 575. Internship in Marketing (4)
- MKTG 590. Seminar in Marketing (4)
- MKTG 595D. Independent Study (4)

Real Estate Concentration

1. FIN 380. Principles of Real Estate (4)
2. FIN 430. Financial Theory and Practice (4)
3. FIN 432. Financial Institutions and Capital Formation (4)
4. FIN 480. Real Estate Appraisal (4)
5. Four units chosen from:
 - FIN 485. Legal Aspects of Real Estate (4)
 - FIN 581. International Aspects of Real Estate (4)
6. FIN 585. Real Estate Finance (4)
7. Twenty units chosen from:
 - ACCT 347. Management Accounting and Decision Making (4)
 - ACCT 372. Intermediate Accounting (4)
 - ACCT 373. Problem Areas in Intermediate Accounting (4)
 - ACCT 426. Introduction to Taxation (4)
 - ACCT 436. Corporate and Partnership Taxation (4)
 - ECON 410. Money and Banking (4)
 - FIN 360. Financial Planning Process and Insurance (4)
 - FIN 433. International Business Finance (4)
 - FIN 435. Investment Analysis (4)
 - FIN 445. Financial Analysis and Decision-Making (4)
 - FIN 485. Legal Aspects of Real Estate (4) (if not taken as a required course)
 - FIN 575. Internship in Finance (4)
 - FIN 581. International Aspects of Real Estate (4) (if not taken as a required course)
 - MKTG 430. Professional Selling and Sales Management (4)

MINOR IN ACCOUNTING

Requirements (28 units)

Requirements for a minor in Accounting:

Lower-division requirements (8 units)

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)

Upper-division requirements (20 units)

1. ACCT 372. Intermediate Accounting (4)
2. Sixteen units chosen from:
 - ACCT 315. Accounting Information Systems (4)
 - ACCT 347. Management Accounting and Decision Making (4)
 - ACCT 373. Problem Areas in Intermediate Accounting (4)
 - ACCT 374. Reporting Issues in Intermediate Accounting (4)
 - ACCT 426. Introduction to Taxation I (4)
 - ACCT 436. Corporate and Partnership Taxation (4)
 - ACCT 439. Advanced Accounting (4)
 - ACCT 440. Financial Statement Auditing (4)

- ACCT 441. EDP Auditing and Control (4)
 ACCT 442. Internal and Operational Auditing (4)
 ACCT 444. Accounting Law, Ethics and Institutions (4)
 ACCT 447. Cost Accounting (4)
 ACCT 456. Estates and Gifts and other Specialized Taxation Topics (4)
 ACCT 568. Accounting for Government and Not-for-Profit Organizations (4)

MINOR IN BUSINESS ADMINISTRATION

Requirements (28 units)

Requirements for a minor in Business Administration:

1. ACCT 211. Introductory Accounting I (4)
2. MGMT 230. Business Law (4)
3. Twenty units of which nine units must be upper-division, usually from one area (i.e., accounting, economics, finance, information management, management, marketing, or operations management), chosen in consultation with the associate dean. Twenty units of the minor must be completed at CSUSB.

MINOR IN BUSINESS INFORMATION MAPPING

Requirements (32 units)

Requirements for a minor in Business Information Mapping:

1. INFO 101. Introduction to Information Technology (4)
2. INFO 280. Information Mapping and Data Visualization (4)
3. INFO 309. Information Management (4)
4. INFO 480. Advanced Information Mapping and Visualization (4)
5. Technical Area
Eight units chosen from:
 INFO 274. Data Base Management (4)
 INFO 282. Business Systems I (4)
 INFO 477. Decision Support Systems (4)
 MKTG 350. Logistics (4)
 MKTG 416. Marketing Research (4)
 MSCI 467. Research Methods (4)
6. General Area
Eight units chosen from:
 FIN 380. Principles of Real Estate (4)
 FIN 432. Financial Institutions and Capital Formation (4)
 INFO 378. Information Problem Solving (4)
 MGMT 324. International Environmental Management (4)
 MGMT 326. Natural Resource Management (4)
 PA 521. Principles of Planning (4)
 PA 564. Local Public Administration (4)

MINOR IN FINANCE

Requirements (24 units)

Requirements for a minor in Finance:

- Lower-division requirements (8 units)
1. ACCT 211. Introductory Accounting I (4)
 2. ACCT 212. Introductory Accounting II (4)
- Upper-division requirements (16 units)
1. FIN 313. Business Finance (4)
 2. FIN 314. Corporate Financial Management (4)
 3. Eight units chosen from:
 FIN 430. Financial Theory and Practice (4)
 FIN 432. Financial Institutions and Capital Formation (4)
 FIN 433. International Business Finance (4)
 FIN 435. Investment Analysis (4)
 FIN 445. Financial Analysis and Decision-Making (4)
 FIN 534. Export-Import Financing (4)

MINOR IN HUMAN RESOURCES MANAGEMENT

Requirements (24 units)

Requirements for a minor in Human Resources Management:

1. MGMT 302. Management and Organizational Behavior (4)
2. MGMT 455. Human Resources Management (4)
3. MGMT 456. Psychology of Human Resources (4)
4. MGMT 457. Industrial and Labor Relations (4)
5. MGMT 458. Fair Employment Practices (4)
6. Four units of upper-division elective course work chosen with the approval of a Management Department advisor.

MINOR IN INFORMATION MANAGEMENT

Requirements (24 units)

Requirements for a minor in Information Management:

- Lower-division requirements (12 units)
1. INFO 101. Introduction to Information Technology (4)
 2. Eight units chosen from any INFO 100- and 200-level courses.
- Upper-division requirements (12 units)
1. INFO 309. Information Management (4)
 2. Eight units chosen from any INFO 300-, 400- and 500-level courses.

MINOR IN MARKETING

Requirements (24 units)

Requirements for a minor in Marketing:

1. MKTG 305. Marketing Principles (4)
2. MKTG 410. Consumer Behavior (4)
3. Sixteen units chosen from:
 - MKTG 350. Logistics (4)
 - MKTG 420. Advertising (4)
 - MKTG 430. Professional Selling and Sales Management (4)
 - MKTG 436. Marketing Decision-Making (4)
 - MKTG 438. Industrial Marketing (4)
 - MKTG 446. Advertising Campaign (4)
 - MKTG 460. Retailing (4)
 - MKTG 462. Merchandising (4)
 - MKTG 470. International Marketing Management (4)
 - MKTG 496. Marketing Planning and Strategy (4)
 - MKTG 520. Integrated Marketing Communication (4)
 - MKTG 530. Strategic Entrepreneurship (4)
 - MKTG 540. E-Marketing (4)
 - MKTG 560. Services Marketing (4)
 - MKTG 572. Import-Export Management (4)
 - MKTG 575. Internship in Marketing (4)
 - MKTG 590. Seminar in Marketing (4)
 - MKTG 595D. Independent Study (4)

MINOR IN OPERATIONS MANAGEMENT

Requirements (28 units)

Requirements for a minor in Operations Management:

Lower-division requirement (4 units)

1. MSCI 210. Applied Business Statistics (4)

Upper-division requirements (24 units)

1. MSCI 360. Statistical Analysis for Management (4)
2. OM 304. Principles of Operations Management (4)
3. OM 466. Operations Planning and Control (4)
4. OM 468. Operations Management and Design (4)
5. OM 470. Supply Chain Management (4)
6. OM 480. Quality Management (4)

MINOR IN PUBLIC ADMINISTRATION

Requirements (28 units)

Requirements for a minor in Public Administration:

Lower-division requirement (4 units)

1. ECON 200. Principles of Microeconomics (4)

Upper-division requirements (24 units)

1. ECON 475. Public Finance (4)

2. Four units chosen from:
 - MGMT 302. Management and Organizational Behavior (4)
 - PSYC 302. Management and Organizational Behavior (4)

3. Four units chosen from:
 - PA 380. Introduction to Public Administration (4)
 - PSCI 380. Introduction to Public Administration (4)
 - PA 462. Public Personnel Administration (4)
 - PA 463. Governmental Budgeting (4)
 - PA 472. Administrative Law (4)

MINOR IN REAL ESTATE

Requirements (28 units)

Requirements for a minor in Real Estate:

Lower-division requirements (8 units)

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)

Upper-division requirements (20 units)

1. FIN 313. Business Finance (4)
2. FIN 314. Corporate Financial Management (4)
3. FIN 380. Principles of Real Estate (4)
4. Eight units chosen from:
 - FIN 432. Financial Institutions and Capital Formation (4)
 - FIN 480. Real Estate Appraisal (4)
 - FIN 485. Legal Aspects of Real Estate (4)
 - FIN 581. International Aspects of Real Estate (4)
 - FIN 585. Real Estate Finance (4)

DEPARTMENTAL HONORS

Students majoring in administration are eligible to receive departmental honors if the following conditions are met:

1. At least four courses in the concentration are completed at this university;
2. A minimum grade point average of 3.5 for all courses satisfying the requirements for the major;
3. One of the following:
 - A. A minimum grade point average of 3.8 for all courses satisfying the requirements of the concentration;
 - B. A grade of "A" (4.0) in a specific College of Business and Public Administration 595. Independent Study course, developed for honors consideration;
 - C. Author or coauthor an article accepted for publication in a leading scholarly journal in their field.

The honor is awarded by the faculty of the department, and students who wish to receive this distinction should initiate the process by submitting a letter of application to the appropriate department office at the beginning of their senior year.

BETA ALPHA PSI

Founded in 1919, Beta Alpha Psi is a national scholastic and professional accounting fraternity. The primary objective of the fraternity is to encourage and give recognition to scholastic and professional excellence in the field of accounting. This includes promoting the study and practice of ac-

counting; providing opportunities for self-development and association among members and practicing accountants; and encouraging a sense of ethical, social and public responsibility. The letters Beta, Alpha and Psi denote Scholarship, Social Responsibility and Practicality, respectively.

BETA GAMMA SIGMA

The university has an active chapter of Beta Gamma Sigma, a national organization that encourages and honors academic achievement and personal excellence in the study and practice of business. Membership is by invitation extended to undergraduate and graduate business students of high scholarship and good moral character.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Refer to [Page 61](#) for additional certificate information.

Accounting Certificate

Certificate Requirements (32 units)

1. ACCT 211. Introductory Accounting I (4)
2. ACCT 212. Introductory Accounting II (4)
3. ACCT 347. Management Accounting and Decision Making (4)
4. ACCT 372. Intermediate Accounting (4)
5. ACCT 373. Problem Areas in Intermediate Accounting (4)
6. ACCT 374. Reporting Issues in Intermediate Accounting (4)
7. ACCT 447. Cost Accounting (4)
8. Four units of electives chosen in consultation with an advisor:
 - ACCT 315. Accounting Information Systems (4)
 - ACCT 426. Introduction to Taxation I (4)
 - ACCT 436. Corporate and Partnership Taxation (4)
 - ACCT 439. Advanced Accounting (4)
 - ACCT 440. Financial Statement Auditing (4)
 - ACCT 441. EDP Auditing and Control (4)
 - ACCT 442. Internal and Operational Auditing (4)
 - ACCT 456. Estates and Gifts and other Specialized Taxation Topics (4)
 - ACCT 568. Accounting for Government and Not-for-Profit Organizations (4)
 - ACCT 590. Seminar in Accounting (4)
 - FIN 313. Business Finance (4)
 - FIN 314. Corporate Financial Management (4)
 - FIN 430. Financial Theory and Practice (4)
 - FIN 445. Financial Analysis and Decision-Making (4)

Human Resources Certificate

Certificate Requirements (24 units)

1. MGMT 302. Management and Organizational Behavior (4)
2. MGMT 455. Human Resources Management (4)
3. MGMT 456. Psychology of Human Resources (4)
4. MGMT 457. Industrial and Labor Relations (4)
5. MGMT 458. Fair Employment Practices (4)
6. Four units of upper-division elective coursework chosen with the approval of a management department advisor.

Information Systems Management Certificate

Certificate Requirements (32 units)

Lower-division requirements (16 units)

1. INFO 101. Introduction to Information Technology (4)
2. Twelve units chosen from any INFO 100- and 200-level courses.

Upper-division requirements (16 units)

1. INFO 309. Information Management (4)
2. Twelve units chosen from any INFO 300-, 400- and 500-level courses.

Operations Management Certificate

Certificate Requirements (32 units)

1. MSCI 210. Applied Business Statistics (4)
2. MSCI 360. Statistical Analysis for Management (4)
3. MSCI 400. Decision Methods (4)
4. OM 304. Principles of Operations Management (4)
5. OM 466. Operations Planning and Control (4)
6. OM 468. Operations Management and Design (4)
7. OM 470. Supply Chain Management (4)
8. OM 480. Quality Management (4)

COURSE OFFERINGS IN ADMINISTRATION (ADMN)

Upper Division

501. Quantitative Methods for Managers

A review of major analytical methods used by managers to facilitate their decision making, including accounting, finance, operations and other decision science tools. (4 units)

502. Managerial Communication and Policy

A review and integration of the managerial areas of human resource management, marketing, organizational communication, negotiation skills, and policy and strategy into a decision-making framework that is bound by legal, ethical and global considerations. (4 units)

AEROSPACE STUDIES (AIR FORCE ROTC)

Aerospace Studies Office

Temporary Offices, Room 122
880-5440

Aerospace Studies Program

FACULTY: Major Kevin Kuhn, Major Steven E. McGibbon,
Major Jeff Ohman

Air Force Reserve Officer Training Corps (AFROTC) is a program designed to commission college students as second lieutenants in the active duty Air Force. Students are required to graduate with a bachelor's degree, in any academic major, and complete one of the two program options. AFROTC offers numerous scholarship opportunities, but scholarships are not required to participate in the program. Students enrolled in the Professional Officer Course and students in the General Military Course on scholarship receive a monthly financial stipend. No military commitment is incurred until entering the Professional Officer Course or accepting an AFROTC scholarship.

AEROSPACE STUDIES PROGRAM

Program Requirements

Option I (Four Year Program)

Program Requirements (24 units)

The four year program is available to students with three to four years of undergraduate/graduate study remaining. Entry into the program requires university course enrollment and consultation with the AFROTC admissions officer in the department. The program consists of three parts: General Military Course (academics and laboratory), Field Training, and the Professional Officer Course (academics and laboratory).

General Military Course (GMC):

1. AS 090. Leadership Laboratory (0) (required every quarter)
2. AS 101. The Air Force Today I (1)
3. AS 102. The Air Force Today II (1)
4. AS 103. The Air Force Today III (1)
5. AS 201. The Development of Air Power I (1)
6. AS 202. The Development of Air Power II (1)
7. AS 203. Air Force Ethics (1)

Field Training

A four-week, noncredit course conducted at an Air Force base during the summer between the second and third years of the program. Successful completion is required before continuing in the program.

Professional Officer Course (POC):

1. AS 090. Leadership Laboratory (0) (required every quarter)
2. AS 301. Air Force Leadership and Management I (3)
3. AS 302. Air Force Leadership and Management II (3)
4. AS 303. Air Force Leadership and Management III (3)
5. AS 401. National Security Forces in Contemporary American Society I (3)
6. AS 402. National Security Forces in Contemporary American Society II (3)
7. AS 403. National Security Forces in Contemporary American Society III (3)

Option II (Two Year Program)

Program Requirements (18 units)

Application for the two-year program is made in the fall and winter quarters for Field Training attendance, during the summer, and prior to entry into the POC. Field Training selection is based on a number of highly competitive criteria. For an application and selection criteria contact the department. The two year program is available to students with two years of undergraduate/graduate study remaining. The program consists of two parts: Field Training and the Professional Officer Course (academics and laboratory).

Field Training:

Prerequisite for entry in the two-year program. A five-week, noncredit course conducted at an Air Force base during the summer before entry into the Professional Officer Course. Successful completion is required before continuing in the program.

Professional Officer Course (POC):

1. AS 090. Leadership Laboratory (0) (required every quarter)
2. AS 301. Air Force Leadership and Management I (3)
3. AS 302. Air Force Leadership and Management II (3)
4. AS 303. Air Force Leadership and Management III (3)
5. AS 401. National Security Forces in Contemporary American Society I (3)
6. AS 402. National Security Forces in Contemporary American Society II (3)
7. AS 403. National Security Forces in Contemporary American Society III (3)

COURSE OFFERINGS IN AEROSPACE STUDIES (AS)

90. Leadership Laboratory

Open only to enrolled Air Force ROTC cadets. Cadets must be concurrently enrolled in aerospace studies courses. Designed to allow students to apply leadership techniques and military skills taught in classroom and to develop their confidence as future military officers. (0 units)

Lower Division

101. The Air Force Today I

Examines the roles and ethical standards expected of an Air Force officer. Presents the opportunities and benefits of being an Air Force officer. (1 unit)

102. The Air Force Today II

The Air Force organization, structure, and mission with emphasis on the basic skills used by military officers. (1 unit)

103. The Air Force Today III

Further analysis of ethical standards expected of an Air Force officer with an emphasis on group dynamics. (1 unit)

201. The Development of Air Power I

Development of air power technology and tactics from 1900 through the Vietnam War and its impact on military thought. (1 unit)

202. The Development of Air Power II

Development of air power technology and tactics from the Vietnam War to present and its impact on military thought. (1 unit)

203. Air Force Ethics

In-depth discussion of values and public expectations as they relate to military officers. (1 unit)

Upper Division

301. Air Force Leadership and Management I

Principles and functions of management and leadership. Introduction to "Total Quality Management." (3 units)

302. Air Force Leadership and Management II

"Quality Air Force" initiatives, procedures, and applications. (3 units)

303. Air Force Leadership and Management III

Ethics in modern society and the military, including the "Standards of Conduct" and the principles of modern warfare. (3 units)

401. National Security Forces in Contemporary American Society I

Forces and issues that influence policy decisions and application of military force. The impact of the executive branch and Congress on military operations. (3 units)

402. National Security Forces in Contemporary American Society II

Geopolitical influences on U.S. political decision making and the use of military force. (3 units)

403. National Security Forces in Contemporary American Society III

Basic knowledge necessary for effective military leadership including consideration of legal issues and the military judicial system. (3 units)

AMERICAN STUDIES

Department of Art

Visual Arts Center, Room 123B
880-5802 (Track I)

Liberal Studies Office

Chaparral Hall, Room 137
880-5857 (Track II)

Bachelor of Arts

American Studies
Track I (General)
Track II (Credential)

COORDINATORS: Track I: Joe Moran
Track II: Leo Connolly

The American Studies major provides students with a broad introduction to American culture. The major incorporates course work from a variety of disciplines, and it encourages students to recognize the diversity of our culture. Consequently, American Studies is an appropriate program for those students who wish to be informed citizens as well as for those who also are looking for a useful context for careers in education, government, law, library work and related fields.

The major has two tracks. Track I consists of a basic set of requirements in American literature, art and history. These requirements provide students with a historical overview of the culture as well as the investigative methods for understanding that culture. Related electives allow students to pursue their individual interests. This plan totals 72 units. With additional course work in either English or history, a student also can complete a single-subject waiver program for secondary-school teachers. The Department of Art coordinates this track and advises all Track I majors.

Like the Liberal Studies major, Track II is designed for credential candidates. This Track can qualify students for the waiver of the examination requirement for the multiple subject teaching credential for elementary school instructors. Track II totals 163 units. The Liberal Studies Office coordinates this track and advises all Track II majors. See [Page 253](#) for more information concerning the Liberal Studies Program. Students who are interested in earning a teaching credential in either multiple subject or a single subject should consult the section, "Basic Teaching Credentials," in this catalog, [Page 154](#).

B.A. IN AMERICAN STUDIES - TRACK I

Requirements (72 units)

Total units required for graduation: 180

Lower-division prerequisites (12 units):

1. ENG 140. Major American Authors (4)
2. HIST 146. American Civilization (4)
3. PSCI 203. American Government (4)

Note: HIST 146. American Civilization and PSCI 203. American Government fulfill categories D-1 and D-2 respectively in general education requirements. These units cannot be counted elsewhere in Track I below.

Requirements for the B.A. in American Studies - Track I:

Upper-division requirements (60 units)

A. Concepts and Methods (8 units)

1. AMST 300. Introduction to American Studies (4)
2. HUM 344. Ideas in American Culture (4)

B. American Arts (12 units)

1. ART 311. Art of the United States to the End of the Nineteenth Century (4)
2. Women and/or minorities:

Four units chosen from:

- ANTH 323. Native North American Art (4)
- ART 323. Native North American Art (4)
- MUS 351. Latin American Music (4)
- MUS 352. African American Music (4)

3. American arts:

Four units chosen from:

- ANTH 323. Native North American Art (4)
- ART 323. Native North American Art (4)
- MUS 351. Latin American Music (4)
- MUS 352. African American Music (4)
- MUS 360. Music in the United States (4)
- TA 461. American Drama (4)

Note: Students may receive credit for only one of the following:

- ANTH 323. Native North American Art
- ART 323. Native North American Art

C. Historical and Social Contexts (24 units)

1. Historical Periods

Twelve units chosen from:

- HIST 350. The American Colonies, 1607-1783 (4)
- HIST 351. The Evolution of American Democracy, 1783-1840 (4)
- HIST 354. Civil War and Reconstruction (4)
- HIST 356. The United States, 1877-1917 (4)
- HIST 357. The United States, 1917-1945 (4)
- HIST 359. The United States Since 1945 (4)

2. Social Contexts

Twelve units chosen from one of the following groups:

Economics

- ECON 333. Women in the Economy (4)
- ECON 352. The Economics of Poverty and Discrimination (4)

- ECON 360. Economics of the Environment (4)
 ECON 421. Economic History of the United States (4)

Religion

- HIST 380. History of World Religions (4)
 SSCI 345. Religious Expression in America (4)
 SOC 380. Sociology of Religion (4)

Women and Minorities in America

- ANTH 305. North American Prehistory (4)
 ANTH 323. Native North American Art (4)
 ANTH 351. Indians of North America (4)
 ART 323. Native North American Art (4)
 ECON 333. Women in the Economy (4)
 ECON 352. The Economics of Poverty and Discrimination (4)
 HIST 391. Chicano History (4)
 HIST 565. Ethnic Minorities in American History (4)
 PSCI 340. Sex and Politics (4)
 PSCI 352. Minority Politics (4)
 SOC 410. Sociology of Race and Ethnicity (4)
 SOC 440. Social Class (4)
 SOC 441. Black Social Stratification (4)
 SOC 442. Chicano Social Stratification (4)
 SOC 444. Sociology of Gender (4)

Note: Students may receive credit for only one of the following and may apply that credit in either the American Arts Category or the Historical and Social Contexts Category but not both:

- ANTH 323. Native North American Art
 ART 323. Native North American Art

Political Thought

- PSCI 310. Classical Political Thought (4)
 PSCI 311. Foundations of Modern Political Thought (4)
 PSCI 314. American Political Thought (4)
 PSCI 326. Political Parties and Interest Groups (4)
 PSCI 410. American Constitutional Law (4)
 PSCI 411. The Bill of Rights (4)
 PSCI 530. Studies in Political Theory: Liberalism (4)
 SOC 310. History of Sociological Theory (4)

Regionalism

- ANTH 315. Archaeology of the Southwest and California (4)
 ANTH 352. Indians of the Southwest (4)
 GEOG 302. Geography of California (4)
 GEOG 350. Conservation and Natural Resources (4)
 GEOG 440. Understanding the City (4)
 HIST 370. History of California (4)
 HIST 560. History of the American West (4)
 HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
 PSCI 342. The Politics of the Environment (4)

D. American Literature (20 units)

1. Four units chosen from: (Prerequisite to upper-division American Literature courses.)
 ENG 301. Analysis of Poetry (4)
 ENG 302. Analysis of Drama (4)
 ENG 303. Analysis of Prose Fiction (4)
 ENG 304. Analysis of Nonfiction Prose (4)
 TA 302. Analysis of Drama (4)

2. Twelve units in periods as follows:

- ENG 330. American Literature I (4)
 ENG 331. American Literature II (4)
 ENG 332. American Literature III (4)

Note: At least four units on American minorities and/or women must be chosen from categories D3, E, or F below.

3. Four units of electives chosen from:

- ENG 314. American Indian Literature (4)
 ENG 322. Studies in Literary Themes, Genres, or Authors (with appropriate topic approved by American Studies, Track I Advisor) (4)
 ENG 339. African American Literature (4)

E. American Themes Elective (4 units)

Four units chosen from group 1 or 2 below:

1. Four additional upper-division units chosen from one of the groups in C.1 or C.2;
 2. Four units chosen from courses on American subjects in anthropology, economics, geography, history, philosophy, political science and sociology in consultation with an American Studies, Track I, advisor.

F. Capstone (4 units)

1. Four units chosen from:
 AMST 590. Special Topics in American Studies (4)
 ENG 515. Senior Seminar in Literature (with appropriate topic approved by American Studies, Track I coordinator) (4)

B.A. IN AMERICAN STUDIES - TRACK II

Requirements (163 units)

Total units required for graduation: 180

Students fulfill both the general education and the American studies requirements by pursuing this program as directed below. EACH COURSE CAN BE COUNTED ONLY ONCE WITHIN THE PROGRAM. The distribution of units is as follows:

BASIC PROGRAM (143 units)

- A. Language Arts (24 units)
 B. Humanities and the Arts (33 units)
 C. Mathematics and Natural Sciences (36 units)
 D. Social and Behavioral Sciences (24 units)
 E. Lifelong Understanding (10 units)
 F. Multicultural/Gender Category
 G. American Studies Themes (16 units)

CONCENTRATION (20 units)

- H. American Literature (20 units)

AMERICAN STUDIES TOTAL (163 units)**Requirements for the B.A. in American Studies - Track II:**

All American Studies, Track II students must maintain a grade point average of at least 2.0 ("C"). Students who plan to seek their multiple subject teaching credential at CSUSB should achieve a minimum GPA of at least 2.7. In addition, all Liberal Studies students who plan to fulfill the multiple subject teaching credential at CSUSB will be required to take a written assessment, to be accomplished during the senior year

or at some point during the credentialing process. Further information concerning the Liberal Studies subject matter assessment is available in PALS, the Liberal Studies Advisement Center (CH-137).

A. Language Arts Breadth Area (24 units)

1. Written Communication (G.E.)
ENG 101. Freshman Composition (4)
2. Upper-division Writing Requirement (G.E.)
Four units chosen from:
EDUC 306. Expository Writing for Education (4)
ENG 306. Expository Writing (4)
HUM 306. Expository Writing for the Humanities (4)
MGMT 306. Expository Writing for Administration (4)
NSCI 306. Expository Writing for the Natural Sciences (4)
SSCI 306. Expository Writing for the Social Sciences (4)

Note: This requirement also can be met by passing a proficiency examination. Students who pass the examination may use the four units as free electives.

3. Oral Communication (G.E.)
COMM 120. Oral Communication (4)
4. Literature (G.E.):
Four units chosen from:
ENG 110. World Literature I (4)
ENG 111. World Literature II (4)
ENG 160. World Drama (4)
ENG 170. Studies in Literature (4)
TA 160. World Drama (4)
TA 212. Oral Interpretation of Literature (4)
5. Development of Language
ENG 311. The English Language (4)
6. Analysis of Literature
Four units chosen from:
ENG 301. Analysis of Poetry (4)
ENG 302. Analysis of Drama (4)
ENG 303. Analysis of Prose Fiction (4)
ENG 304. Analysis of Nonfiction Prose (4)
TA 302. Analysis of Drama (4)

B. Humanities and the Arts Breadth Area (33 units)

1. Critical Thinking (G.E.)
Four units chosen from:
COMM 180. Critical Thinking Through Argumentation (4)
MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
PHIL 105. Critical Thinking Through Argument Analysis (4)
PHIL 200. Critical Thinking Through Symbolic Logic (4)
PSYC 105. Critical Thinking Through Problems Analysis (4)
SOC 180. Critical Thinking about Social Problems (4)
2. Philosophy (G.E.)
Four units chosen from:
PHIL 190. Introduction to Philosophical Issues (4)
PHIL 191. Introduction to Ethics (4)
PHIL 192. Introduction to Philosophy of Religion (4)

- PHIL 193. Introduction to Eastern Philosophy (4)
PHIL 194. Introduction to Knowledge and Reality (4)

3. Foreign Language (G.E.)
Four units chosen from:
FLAN 150. Intermediate Language Study (4)
FREN 150. Intermediate French (4)
FREN 200. Culture and Communication (4)
FREN 201. Conversation and Composition I (4)
FREN 202. Conversation and Composition II (4)
GER 150. Intermediate German (4)
GER 212. Composition (4)
GER 214. Conversation (4)
GER 216. Introduction to Literary Texts (4)
JAPN 150. Intermediate Japanese (4)
MAND 150. Intermediate Mandarin (4)
SPAN 150. Intermediate Spanish (4)
SPAN 155. Intermediate Spanish for Spanish Speakers (4)
SPAN 212. Composition (4)
SPAN 213. Composition for Spanish Speakers (4)
SPAN 214. Conversation (4)

Note: Students pursuing the B.A. in American Studies, Track II, cannot include in category B3 the following courses:

- FREN 290. French Literature in English
GER 290. German Literature in English
SPAN 290. Spanish and Latin American Literature in English

4. Arts
 1. Four units in the arts (G.E.) chosen from:
ART 200. Studies in Art (4)
MUS 180. Studies in Music (4)
TA 260. Introduction to Theatre (4)
 2. ART 395. Art in the Classroom (3)
 3. MUS 531. Musical Development for the Elementary Teacher (3)
 4. A minimum of three units chosen from:
TA 385. Acting for Non-Majors (4)
TA 481. Creative Drama in the Classroom (3)
TA 483. Children's Theatre (4)
TA 484. Readers Theatre (4)
TA 579. Theatre in the Elementary Classroom (4)
5. Field Experience
EELB 275. Internship in Service Learning (1-5) for a total of (4)
Note: Internship must be performed in a school setting.
6. Integrative Capstone in the Humanities
Four units chosen from:
HUM 325. Perspectives on Gender (4) (also counts in category F1)
HUM 335. The Origin and Contemporary Role of Latino Culture (4) (also counts in category F1)
HUM 344. Ideas in American Culture (4)
HUM 350. The Cultures of American Childhood (4) (also counts in category F1)
HUM 370. African Heritage in the Arts (4) (also counts in category F1)

HUM 380. Comparative Studies in the Arts: East and West (4) (also counts in category F1)

Note: Students may receive credit for only one of the following:

- HUM 325. Perspectives on Gender
- NSCI 325. Perspectives on Gender
- SSCI 325. Perspectives on Gender

C. Mathematics and Natural Sciences Breadth Area (36 units)

1. Mathematics (G.E.)

Four units chosen from:

- MATH 110. College Algebra (4)
- MATH 115. The Ideas of Mathematics (4)
- MATH 120. Pre-Calculus Mathematics (4)
- MATH 192. Methods of Calculus (4)
- MATH 211. Basic Concepts of Calculus (4)

2. Mathematical Applications

Four units chosen from:

- MATH 211. Basic Concepts of Calculus (4) (if not taken in category C.1)
- MATH 212. Calculus II (4)
- MATH 302. Problem Solving in Mathematics (4)

3. Life Science (G.E.)

Five units chosen from:

- BIOL 100. Topics in Biology (5)
- BIOL 202. Biology of Populations (5)
- HSCI 120. Health and Society: An Ecological Approach (5)

4. Physical and Earth Sciences

Nine units chosen from one of the following three-course sequences (1, 2 or 3) to include one course in each of the physical sciences (physics and chemistry) and earth/space sciences (geology, geography and astronomy):

1. a. One of the following:

- CHEM 100. Chemistry in the Modern World (5)
- CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)

b. GEOL 304. Geology in the Classroom (2)

c. PHYS 304. Physics in the Classroom (2)

2. a. One of the following:

- PHYS 100. Physics in the Modern World (5)
- PHYS 121. Basic Concepts of Physics (5)
- PHYS 221. General Physics I (5)

b. CHEM 304. Chemistry in the Classroom (2)

c. GEOL 304. Geology in the Classroom (2)

3. a. One of the following:

- GEOG 103. Physical Geography (5)
- GEOL 101. Introductory Geology (5)
- PHYS 103. Descriptive Astronomy (5)

b. CHEM 304. Chemistry in the Classroom (2)

c. PHYS 304. Physics in the Classroom (2)

5. Special Topics in Science and Technology (G.E.)

Two units chosen from:

- BIOL 216. Genetics and Society (2)
- BIOL 217. Biology of Sexually Transmitted Diseases (2)
- CHEM 105. Chemicals in Our Environment (2)

CSCI 124. Exploring the Information Superhighway (2)

GEOL 210. Earthquakes: Science and Public Policy (2)

6. Mathematics and Natural Sciences Electives

1. CSCI 127. Introduction to Computer Technology for Educators (4)

2. MATH 301. Basic Mathematics for Educators (4)

7. Integrative Capstone in the Natural Sciences (G.E.)

Four units chosen from:

- NSCI 300. Science and Technology (4)
- NSCI 310. The Environment and Human Survival (4)
- NSCI 314. Life in the Cosmos (4)
- NSCI 320. Energy (4)
- NSCI 325. Perspectives on Gender (4) (also counts in category F1)

NSCI 351. Health and Human Ecology (4)

NSCI 360. Legacy of Life (4)

Note: Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
- NSCI 325. Perspectives on Gender
- SSCI 325. Perspectives on Gender

D. Social and Behavioral Sciences Breadth Area (24 units)

1. American History and Civilization (G.E.)

Four units chosen from:

- HIST 146. American Civilization (4)
- HIST 200. United States History to 1877 (4)
- HIST 201. United States History, 1877 to the Present (4)

2. American Institutions (G.E.)

PSCI 203. American Government (4)

Note: The American History, Constitution, State and Local Government requirement can be met by taking PSCI 203 and either HIST 146, 200 or 201. However, even if this requirement is met by examination, students must still take eight units of lower-division coursework, chosen from categories D3 and D4 and counted in categories D1 and D2.

3. World Cultures (G.E.)

Four units chosen from:

- ANTH 140. World Civilizations I, the Rise of Civilization (4)
- HIST 140. World Civilizations I, the Rise of Civilization (4)
- HIST 142. World Civilizations II, the Civilizations of the East and West (4)
- HIST 144. World Civilizations III, the Expansion of Europe (4)
- SSCI 165. Regions and Peoples of the World (4)

4. Discipline Perspectives (G.E.)

Four units chosen from:

- ANTH 100. Introduction to Anthropology: Human Evolution (4)
- ANTH 102. Introduction to Anthropology: Culture and Society (4)
- ECON 104. Economics of Social Issues (4)
- ES 100. Ethnicity and Race in America (4)

- GEOG 100. Introduction to Human Geography (4)
 PSCI 100. Introduction to Political Science (4)
 PSYC 100. Introduction to Psychology (4)
 SOC 100. The Study of Society (4)
 WSTD 100. Introduction to Women's Studies (4)
5. Social and Behavioral Sciences Elective
 PSYC 320. Psychology of Middle Childhood (4)
6. Integrative Capstone in the Social and Behavioral Sciences
 Four units chosen from:
 SSCI 300. Nonwestern World (4)
 SSCI 304. Contemporary Latin America (4)
 SSCI 315. Cultural Adaptation: The Quest for Survival (4)
 SSCI 316. Race and Racism (4) (also counts in category F1)
 SSCI 320. Understanding Capitalism (4)
 SSCI 321. Urbanization and Urban Environment (4)
 SSCI 325. Perspectives on Gender (4) (also counts in category F1)
 SSCI 343. Understanding Socialism (4)
 SSCI 345. Religious Expression in America (4)
 SSCI 350. Roots of Modern Racism in America (4) (also counts in category F1)

Note: Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
 NSCI 325. Perspectives on Gender
 SSCI 325. Perspectives on Gender

E. Lifelong Understanding (10 units)

1. The Whole Person-physical and physiological issues (G.E.)
 Two units chosen from:
 KINE 205. Foundations for Lifetime Fitness and Wellness (2)
 NSCI 110. Health and Self Care (2)
2. The Whole Person-social and psychological issues (G.E.)
 Two units chosen from:
 PHIL 101. Moral Choices in Life (2)
 PSYC 115. Personal and Social Adjustment (2)
 SOC 110. Choices in the Life Course (2)
3. Physical Education (G.E.)
 1. Two units chosen from courses listed below. Students are encouraged to elect a dance course, KINE 150:
 KINE 101. Individual and Dual Activities (2)
 KINE 114. Physical Fitness and Conditioning Activities (2)
 KINE 120. Combative and Martial Arts Activities (2)
 KINE 121. Team Activities (2)
 KINE 137. Aquatic Activities (2)
 KINE 147. A Fitness Odyssey (2)
 KINE 149. Independent Activity Project (2)
 KINE 150. Dance Activities (2)
2. Four units chosen from:
 DAN 481. Creative Dance in the Classroom (4)
 KINE 352. Movement for Children (4)

F. Multicultural/Gender Category

All students must take one upper-division course designated as meeting this requirement, chosen from groups 1 or 2 below:

1. An appropriate integrative capstone course in one of the following categories: B6, C7, or D6 or one of the following:
 HUM 325. Perspectives on Gender (4)
 HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 HUM 350. The Cultures of American Childhood (4)
 HUM 370. African Heritage in the Arts (4)
 HUM 380. Comparative Studies in the Arts: East and West (4)
 NSCI 325. Perspectives on Gender (4)
 SSCI 316. Race and Racism (4)
 SSCI 325. Perspectives on Gender (4)
 SSCI 350. Roots of Modern Racism in America (4)
2. Upper-division general education elective that satisfies the multicultural gender requirement.
 ANTH 325. Human Variation and the Concept of Race (4)
 ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
 COMM 304. Intercultural Communication (4)
 COMM 401. Gender, Race and Media (4)
 CJUS 451. Women and Crime (4)
 ECON 352. The Economics of Poverty and Discrimination (4)
 ENG 314. American Indian Literature (4)
 HUM 460. Cultural Studies (4)
 MUS 308. Women in Music (4)
 MUS 350. Music of World Cultures (4)
 PA 305. Organizations in Multicultural and Diverse Societies (4)
 PHIL 364. Philosophy of Race and Gender (4)
 PHIL 367. Philosophy and Sexual Politics (4)
 TA 462. African American Theatre and Drama (4)

G. American Studies Themes (16 units)

1. Sixteen units chosen from:
 AMST 300. Introduction to American Studies (4)
 ART 311. Art of the United States to the End of the Nineteenth Century (4)
 ECON 421. Economic History of the United States (4)
 HIST 351. The Evolution of American Democracy, 1783-1840 (4)
 PSCI 314. American Political Thought (4)

H. American Literature (20 units)

1. Upper-division survey, twelve units as follows:
 ENG 330. American Literature I (4)
 ENG 331. American Literature II (4)
 ENG 332. American Literature III (4)
Note: Students are advised to take ENG 140. Major American Authors, before beginning this survey.
2. Electives, eight units chosen from: (a course in American minorities and/or women must be included)
 AMST 590. Special Topics in American Studies (4)
 ENG 314. American Indian Literature (4)
 ENG 320. Children's Literature (4)

- ENG 322. Studies in Literary Themes, Genres, or Authors (with appropriate topic approved by American Studies, Track II, coordinator) (4)
- ENG 323. Chicano Literature (4)
- ENG 327. Literature for Adolescents and Young Adults (4)
- ENG 339. African American Literature (4)
- ENG 515. Senior Seminar in Literature (with appropriate topic approved by American Studies, Track II, coordinator) (4)

DEPARTMENTAL HONORS

The American Studies, Track II student will be eligible for Departmental Honors upon verification of the following:

1. Earned a 3.5 grade point average in the major.
2. Completed at least 45 units of American Studies, Track II courses at this university.
3. Successfully completed oral and written honors evaluations.

COURSE OFFERINGS IN AMERICAN STUDIES (AMST)

Upper Division

300. Introduction to American Studies

Concepts and methods essential to an interdisciplinary approach to American literature and art in a historical context. (4 units)

590. Special Topics in American Studies

Advanced independent study of selected figures, themes, or periods in American literature and art in a historical context. May be repeated for credit as topics change. Prerequisites: AMST 300; ART 311; HUM 344; one of the following: ENG 331, 332 or 333; and consent of department. (4 units)

ANTHROPOLOGY

Department of Anthropology

Social and Behavioral Sciences Building, Room 327J
880-5502

Bachelor of Arts

Anthropology

Minor

Anthropology

Certificate Programs

Applied Cultural Anthropology

Archaeology

Latin American Studies

Museum Studies

FACULTY: Russell Barber, Frances Berdan,
Kathy Nadeau, Wesley Niewoehner, James Pierson,
Peter Robertshaw (Chair)

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

Participation in The California State University's International Programs is one way students can experience other cultures first-hand. For further information, see [Page 25](#).

B.A. IN ANTHROPOLOGY

Requirements (48 units)

Total units required for graduation: 180

Requirements for the B.A. in Anthropology:

1. ANTH 100. Introduction to Anthropology: Human Evolution (4)
2. ANTH 102. Introduction to Anthropology: Culture and Society (4)
3. ANTH 500. Great Ideas in Anthropology (4)
4. Archaeology/physical anthropology
A minimum of eight units chosen from:
ANTH 302. African Archaeology (4)
ANTH 303. Prehistory of the Middle East and Europe (4)
ANTH 305. North American Prehistory (4)
ANTH 306. Aztecs, Maya and Their Predecessors (4)
ANTH 307. Incas and Their Predecessors (4)

May choose only one of the following two courses:

ANTH 312. Historical Archaeology (4)

HIST 312. Historical Archaeology (4)

ANTH 315. Archaeology of the Southwest and California (4)

ANTH 319. Experimental Archaeology and Ethnoarchaeology (5)

ANTH 320. Archaeological Survey and Excavation (5)

ANTH 321. Archaeological Laboratory Analysis (5)

May choose only one of the following two courses:

ANTH 323. Native North American Art (4)

ART 323. Native North American Art (4)

May choose only one of the following two courses:

ANTH 324. Pre-Columbian Art (4)

ART 324. Pre-Columbian Art (4)

ANTH 325. Human Variation and the Concept of Race (4)

ANTH 326. Human Origins (4)

ANTH 327. Primate Evolution and Ecology (4)

5. Anthropology culture areas

Eight units chosen from:

ANTH 351. Indians of North America (4)

ANTH 352. Indians of the Southwest (4)

ANTH 354. Cultures of Mexico and Central America (4)

ANTH 356. Cultures of South America (4)

ANTH 357. African Societies (4)

ANTH 358. Peoples of the Middle East (4)

ANTH 360. Peoples of Australia (4)

ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)

ANTH 362. Peoples of Asia (4)

ANTH 365. Asian-American Cultures (4)

6. Anthropology theory

Twelve units chosen from:

ANTH 300. Archaeology (4)

ANTH 330. Cross-Cultural Child-Rearing Practices (4)

ANTH 331. Anthropology of Human Development (4)

ANTH 332. Cross-Cultural Perspectives on Aging (4)

ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)

ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)

ANTH 375. Museum Methods (4)

ANTH 460. Language and Culture (4)

ANTH 466. Anthropology of Health, Illness and Healing (4)

ANTH 470. Culture Change and Dynamics (4)

ANTH 472. Colonial and Postcolonial Anthropology (4)

ANTH 475. Cultural Ecology (4)

ANTH 480. Magic, Religion and Science (4)

ANTH 485. Applied Anthropology and Social Policy (4)

ANTH 490. Systems of Social Organization (4)

ANTH 492. Economic Anthropology (4)

ANTH 493. Urban Anthropology (4)

7. Eight additional upper-division units in anthropology (four units may be from a related field, as approved by an advisor).

MINOR IN ANTHROPOLOGY

Requirements (28 units)

Requirements for a minor in Anthropology:

1. ANTH 100. Introduction to Anthropology: Human Evolution (4)
2. ANTH 102. Introduction to Anthropology: Culture and Society (4)
3. Twenty upper-division units chosen in consultation with an advisor.

DEPARTMENTAL HONORS

Students majoring in anthropology are eligible to receive honors in anthropology at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. A grade point average of at least 3.5 in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Successful completion of ANTH 597. Senior Honors Project, resulting in a thesis paper.

Applications for candidacy must be made by the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor and one other faculty reader from the department will have responsibility for evaluation of the completed thesis paper.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Applied Cultural Anthropology

Admission to the Certificate

1. Consultation with a faculty advisor in anthropology is required before enrolling in upper-division courses.

Certificate Requirements (32 units)

1. ANTH 102. Introduction to Anthropology: Culture and Society (4)
2. A minimum of four units chosen from:
 - ECON 250. Statistics for Economists (4)
 - GEOG 205. Geographical Statistics (4)
 - MSCI 210. Applied Business Statistics (4)
 - PSYC 210. Psychological Statistics (5)
 - SSCI 215. Statistics for Social Sciences (4)
3. ANTH 485. Applied Anthropology and Social Policy (4)

4. ANTH 578. Internship in Applied Anthropology (2-5) for a total of (8)
5. A minimum of twelve units of upper-division social and cultural anthropology courses chosen in consultation with an advisor.

Certificate in Archaeology

Certificate Requirements (33 units)

1. ANTH 300. Archaeology (4)
2. Five units chosen from:
 - ANTH 320. Archaeological Survey and Excavation (5)
 - ANTH 577. Internship in Archaeology (5)
3. Five units chosen from:
 - ANTH 319. Experimental Archaeology and Ethnoarchaeology (5)
 - ANTH 321. Archaeological Laboratory Analysis (5)
4. Eight units chosen from:
 - ANTH 302. African Archaeology (4)
 - ANTH 303. Prehistory of the Middle East and Europe (4)
 - ANTH 305. North American Prehistory (4)
 - ANTH 306. Aztecs, Maya and Their Predecessors (4)
 - ANTH 307. Incas and Their Predecessors (4)
 May choose only one of the following two courses:
 - ANTH 312. Historical Archaeology (4)
 - HIST 312. Historical Archaeology (4)
- ANTH 315. Archaeology of the Southwest and California (4)
5. GEOG 201. Map Interpretation (2)
6. GEOG 301. Introduction to Geographic Information Systems and Mapping (5)
7. A minimum of four units chosen from:
 - GEOG 306. Remote Sensing of Environment (4)
 - GEOG 401. Advanced Geographic Information Systems (5)
 - GEOG 403. Advanced Map Design (5)
 - GEOG 480. Geomorphology (4)
 - GEOLOG 301. Introduction to Geologic Mapping (4)
 - GEOLOG 330. Sedimentary Petrology (5)
 - GEOLOG 350. Paleontology (5)

Certificate in Latin American Studies

Certificate Requirements (32 units)

1. Thirty-two units chosen from the following: (No more than twelve units may be taken from any one discipline.)
 - ANTH 306. Aztecs, Maya and Their Predecessors (4)
 - ANTH 307. Incas and Their Predecessors (4)
 May choose only one of the following two courses:
 - ANTH 324. Pre-Columbian Art (4)
 - ART 324. Pre-Columbian Art (4)
- ANTH 354. Cultures of Mexico and Central America (4)
- ANTH 356. Cultures of South America (4)
- ART 328. Mexican Art (4)
- FLAN 320. Masterpieces of Literature (when topic pertains to Latin America) (4)
- GEOG 321. Area Study: Latin America (4)
- GEOG 390. Selected Topics in Geography: Tropical Geography (4)
- HIST 390. History of Modern Mexico (4)

- HIST 469. Colonial Latin America (4)
 HIST 470. Modern Latin America (4)
 HUM 460. Cultural Studies (when topic pertains to Mexico or Latin America) (4)
 MUS 351. Latin American Music (4)
 SSCI 304. Contemporary Latin America (4)
 SPAN 400. Masterpieces in Spanish and Spanish American Literature (when topic pertains to Latin America) (4)
 SPAN 440. Mexican Literature (4)
 SPAN 514. Seminar in Hispanic Language, Literature or Film (when topic pertains to Latin America) (4)

Certificate in Museum Studies

Certificate Requirements (34 units)

1. ANTH 375. Museum Methods (4)
2. ANTH 576. Internship in Museum Studies (2-5) for a total of (8)
3. ART 345. Gallery Management (2)
4. A minimum of twelve units of electives, chosen from one of the following three groups of courses (A, B or C):

Group A

- ANTH 300. Archaeology (4)
 ANTH 302. African Archaeology (4)
 ANTH 303. Prehistory of the Middle East and Europe (4)
 ANTH 305. North American Prehistory (4)
 ANTH 306. Aztecs, Maya and Their Predecessors (4)
 ANTH 307. Incas and Their Predecessors (4)
 May choose only one of the following two courses:
 ANTH 312. Historical Archaeology (4)
 HIST 312. Historical Archaeology (4)
 ANTH 315. Archaeology of the Southwest and California (4)
 ANTH 320. Archaeological Survey and Excavation (5)
 ANTH 321. Archaeological Laboratory Analysis (5)

May choose only one of the following two courses:

- ANTH 323. Native North American Art (4)
 ART 323. Native North American Art (4)

May choose only one of the following two courses:

- ANTH 324. Pre-Columbian Art (4)
 ART 324. Pre-Columbian Art (4)

Group B

- ANTH 351. Indians of North America (4)
 ANTH 352. Indians of the Southwest (4)
 ANTH 354. Cultures of Mexico and Central America (4)
 ANTH 357. African Societies (4)
 ANTH 358. Peoples of the Middle East (4)
 ANTH 360. Peoples of Australia (4)
 ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)
 ART 306. Greek and Roman Art (4)
 ART 221. Art History: Prehistoric Times through the Middle Ages (4)
 ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
 ART 223. Art History: Renaissance to the Present (4)
 ART 311. Art of the United States to the End of the Nineteenth Century (4)

- ART 314. The Art of Indigenous Peoples (4)
 ART 316. Arts of the Ancient Near East and Egypt (4)
 ART 321. Renaissance Art (4)

May choose only one of the following two courses:

- ANTH 323. Native North American Art (4)
 ART 323. Native North American Art (4)

May choose only one of the following two courses:

- ANTH 324. Pre-Columbian Art (4)
 ART 324. Pre-Columbian Art (4)

- ART 327. Baroque and Rococo Art (4)
 ART 328. Mexican Art (4)
 ART 329. Chicano Art (4)

Group C

- ART 410. Studies in Art History: Renaissance (4)
 ART 413. Modern Art of the United States (4)
 ART 423. Nineteenth Century European Art (4)
 ART 424. Modern European Art (4)

Any history course except HIST 395, 396, 399, 575, 589 and 595.

5. A minimum of eight units of electives chosen from:

- ART 120. Introduction to Two Dimensional Design (4)
 ART 121. Introduction to Three Dimensional Design (4)
 ART 390. Beginning Photography (5)
 COMM 341. Introduction to Public Relations (4)
 GEOG 301. Introduction to Geographic Information Systems and Mapping (5)

May choose only one of the following two courses:

- PA 380. Introduction to Public Administration (4)
 PSCI 380. Introduction to Public Administration (4)
 PA 480. Organizational Problems in Public Administration (4)

COURSE OFFERINGS IN ANTHROPOLOGY (ANTH)

Lower Division

100. Introduction to Anthropology: Human Evolution

Human biological and social evolution through time. (GE=D.4) (ANTH 100=CAN ANTH 2) (4 units)

102. Introduction to Anthropology: Culture and Society

Structure and dynamics of human cultural experience; comparative analysis of language, religion, economic patterns and social and political organization in traditional and complex societies. (GE=D.4) (ANTH 102=CAN ANTH 4) (4 units)

140. World Civilizations I, the Rise of Civilization

Activities and achievements of humans through the rise and diffusion of civilizations in Eurasia, Africa, and the Americas to about the dawn of the Christian era. (Also offered as HIST 140. Students may not receive credit for both.) (GE=D.3) (4 units)

T. For students in the B.A. in Liberal Studies, Accelerated Track. The instructor uses methods suitable for kindergarten through college classrooms. (Also offered as HIST 140T. Students may not receive credit for both.) (4 units)

Upper Divisions

300. Archaeology

History of archaeological research, a survey of concepts and methods for the study of prehistoric culture and a summary of major sequences in prehistory. (4 units)

302. African Archaeology

Africa's past from the beginnings of humankind to the period of European contact. An examination of Africa's foremost role in the origins of culture and of anatomically modern humans, as well as the development of African civilizations. (4 units)

303. Prehistory of the Middle East and Europe

A survey of prehistory spanning the spread of people into the Middle East and Europe, the development of agriculture and the origins and growth of the earliest civilizations. (4 units)

305. North American Prehistory

Prehistory of North America from earliest times to the dawn of historic contact with the Old World after 1492. (4 units)

306. Aztecs, Maya and Their Predecessors

The origin, spread and decline of pre-Columbian civilizations in Mexico and adjacent areas. (4 units)

307. Incas and Their Predecessors

The origin, spread and decline of pre-Columbian civilizations in Peru and adjacent areas. (4 units)

312. Historical Archaeology

Use of archaeological methods to study historic peoples. Historical and archaeological methods and their results. Focus primarily on North America from A.D. 1492 to modern times. (Also offered as HIST 312. Students may not receive credit for both.) (4 units)

315. Archaeology of the Southwest and California

The prehistoric cultures of California and the American Southwest, their origins, characteristics and relationships. (4 units)

319. Experimental Archaeology and Ethnoarchaeology

Experimental and observational techniques that are important in reconstructing the past. This course has a practical/laboratory component that will assist students in understanding aspects of prehistoric technology and the formation of the archaeological record. Prerequisite: consent of instructor. (5 units)

320. Archaeological Survey and Excavation

Examines techniques and methods used to recover archaeological remains and information. Stresses the importance of research design and its relationship to methodology. Active participation in a field project under the direction of the instructor. Ten hours activity. Prerequisite: consent of instructor. (5 units)

321. Archaeological Laboratory Analysis

Examines techniques and methods used to analyze archaeological remains in the laboratory. Active participation in various laboratory projects under the direction of the instructor. Four hours lecture and three hours laboratory. Prerequisite: consent of instructor. (5 units)

323. Native North American Art

Art of American Indian and Eskimo peoples north of Mexico, from earliest prehistory to modern times. (Also offered as ART 323. Students may not receive credit for both.) (4 units)

324. Pre-Columbian Art

Art and architecture of pre-Columbian cultures with an emphasis on Mexico and Peru. (Also offered as ART 324. Students may not receive credit for both.) (4 units)

325. Human Variation and the Concept of Race

An inquiry into past and present interpretations of the significance of human physical differences. (GE=G.2) (4 units)

326. Human Origins

The archaeological, anatomical and other evidence for human origins examined within their geological and environmental contexts. Discussion of theories that attempt to explain how we became human. Prerequisite: ANTH 100. (4 units)

327. Primate Evolution and Ecology

A comparative study of our closest relatives (the apes, monkeys and other primates): their evolution, ecology, behavior, social organization and means of communication. (4 units)

330. Cross-Cultural Child-Rearing Practices

Crosscultural examination of child-rearing practices from the perspective of major anthropological theories of personality formation and its relationship with culture. (4 units)

331. Anthropology of Human Development

A cross-cultural perspective on human development and the processes of personality formation and cultural transmission. (4 units)

332. Cross-Cultural Perspectives on Aging

A cross-cultural examination of aging and the roles, statuses, opportunities, and treatment of the aged, with an emphasis on non-Western societies. Formerly ANTH 390N. (4 units)

333. Sex and Gender in Cross-Cultural Perspective

Examination and analysis of the changing position of women in selected societies around the world, including consideration of the sexual division of labor, marriage systems, male-female relations, and systems of myth and ideology concerning gender roles. (GE=G.2) (4 units)

335. Cross-Cultural Perspectives on Crime and Deviance

Crosscultural examination of behavior regulation in human societies. Specific topics include cultural definition of crime and deviance, conflict resolution, processes of control and the distribution of authority and power. A self-paced version of this course (ANTH 335S) is also available. Students may not receive credit for both. (4 units)

351-362. World Cultures

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

351. Indians of North America (4 units)**352. Indians of the Southwest (4 units)****354. Cultures of Mexico and Central America (4 units)****356. Cultures of South America (4 units)****357. African Societies (4 units)****358. Peoples of the Middle East (4 units)****360. Peoples of Australia (4 units)****361. Peoples of Micronesia, Melanesia and Polynesia (4 units)****362. Peoples of Asia (4 units)****365. Asian-American Cultures**

Asian-American cultural identity issues and concerns such as stereotyping, race issues, and the diverse ways in which Asian-Americans retain, modify and reinvent Asian cultural traditions in American society. (4 units)

375. Museum Methods

Introduction to the techniques of museum work, and to the history, theory and practice of museums. Includes curatorial methods, and the care, preservation, storage and exhibition of museum specimens. (4 units)

390. Selected Topics in Anthropology

An anthropological examination of a selected topic. May be repeated for credit as topics change. (4 units)

391. Selected Topics in Anthropology

An anthropological examination of a selected topic. May be repeated for credit as topics change. (2 units)

460. Language and Culture

Analysis of languages stressing the relationship of language to patterns of human behavior. (4 units)

466. Anthropology of Health, Illness and Healing

An anthropological examination of the varying cultural definitions, explanations and experiences of illness and health in a variety of cultures. Strategies which societies have developed to cope with disease and misfortune are investigated, including such things as shamanism and folk medicine. (4 units)

470. Culture Change and Dynamics

An examination and evaluation of the various theories that have been proposed to explain societal change using actual case study materials. (4 units)

472. Colonial and Postcolonial Anthropology

Historical examination of the ways in which colonial anthropology has been connected to the European understanding of non-European cultures and societies. Analysis of the contributions of contemporary anthropology to postcolonial discourses. (4 units)

475. Cultural Ecology

An examination of theories, methods and applications of the ecological perspective in the anthropological study of human cultures, and a cross-cultural comparison of adaptations to different ecological niches. (4 units)

480. Magic, Religion and Science

A comparative study of the widely varied attempts by members of human societies to order, control and make predictions about their physical and social environments. (4 units)

485. Applied Anthropology and Social Policy

Use of anthropological knowledge and methods in solving social problems in institutional, national and international settings. Includes consideration of policy-making, funding, sponsorship, establishing goals, project implementation, popular participation, ethics, evaluation and reporting. (4 units)

490. Systems of Social Organization

A comparative description and analysis of social integration in human societies. (4 units)

492. Economic Anthropology

An anthropological approach to the analysis of systems of production and exchange in nonindustrial societies. (4 units)

493. Urban Anthropology

Utilization of ethnographic and cross-cultural materials in an examination of anthropological concepts and methods for the study of urban environments and the processes of urbanization. (4 units)

500. Great Ideas in Anthropology

Major anthropological theories as applied to a topical area of anthropological study, such as human settlements, migrations, or innovation. Perspectives from cultural anthropology, archaeology, bioanthropology and linguistics will be discussed. Prerequisite: consent of instructor. (4 units)

575. Internship in Anthropology

Supervised work in public or private organizations emphasizing practical applications of anthropological concepts. May be repeated for credit for a total of 10 units. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

576. Internship in Museum Studies

Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 10 units. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

577. Internship in Archaeology

Supervised fieldwork or laboratory analysis in archaeology in public or private organizations emphasizing practical applications of archaeological theories and methods. May be repeated for credit for a total of 10 units. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

578. Internship in Applied Cultural Anthropology

Supervised work in any field where students may apply social and cultural anthropological knowledge to work situations. May be repeated for credit for a total of 10 units. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

585. Fieldwork in Cultural Anthropology

Supervised design, execution and analysis of an individualized ethnographic field project. Prerequisite: consent of instructor. (4 units)

595. Independent Study

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

597. Senior Honors Project

Original research in an area of anthropological studies, culminating in a major research report receiving approval of the anthropology faculty. Enrollment limited to students whose formal application for departmental honors is approved. (5 units)

Graduate level courses can be found on [Page 371](#).

ART

Accredited by the National Association of Schools of Art and Design

Department of Art

Visual Arts Center, Room 105
880-5802

Bachelor of Arts

- Art - Plan I
- Art - Plan II
- Art - Plan III
- Art - Plan IV
- Art - Plan V

Minor

- Art History
- Studio Art

Certificate Program

- Business Skills for the Artist

Master of Art

- Art
- (Degree requirements can be found on [Page 372.](#))

FACULTY: Susan Beiner, Kurt Collins, Teresa Cotner, Leo Doyle, James Gobel, Richard Johnston, Julius Kaplan, Sant Khalsa, George McGinnis, Tom McGovern, Joe Moran (chair), Billie Sessions

The challenge for visual artists is to discover what is already there, to open up and probe what is inside and outside themselves and to find a means of giving it back to the whole world. It is this adventure which is the focus of the Department of Art.

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

Five plans are available for students working for the Bachelor of Arts in Art and two options are available for a minor in art. The studio areas of concentration currently offered are: ceramics, graphic design, drawing, glass, painting, photography, printmaking, sculpture, and woodworking and furniture design.

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

Five-unit studio courses meet for eight scheduled hours per week and require an additional seven hours per week to be arranged on an individual basis. Field trips are required in most art history courses and several studio courses as well. Also, in many courses students are required to pay for materials used.

B.A. IN ART - PLAN I (Art Education)

Requirements (93 units)

Total units required for graduation: 180

This program is designed for students seeking a liberal education with an emphasis in art, and is recommended for those who wish to receive teaching credentials in art.

Requirements for the B.A. in Art - Plan I:

Lower-division requirements (13 courses totalling 57 units)

1. ART 120. Introduction to Two Dimensional Design (4)
2. ART 121. Introduction to Three Dimensional Design (4)
3. ART 122. Introduction to Drawing and Life Drawing (4)
4. ART 123. Introduction to Art and Technology (4)
5. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
6. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
7. ART 223. Art History: Renaissance to the Present (4)
8. ART 235. Painting I (5)
9. ART 240. Sculpture I (5)
10. ART 254. Ceramics I (5)
11. ART 260. Printmaking I (5)
12. ART 290. Photography I (5)
13. Four units chosen from:
 - ART 232. Principles of Design Management (4)
 - ART 238. Production of Visual Information Design (4)

Upper-division requirements (36 units)

1. History of Art
 - Eight units consisting of one four-unit course chosen from each of the following (A and B):
 - A. ART 420. Art from 1900 to the Present (4)
 - ART 520. Contemporary Art, Theory and Criticism (4)
 - B. ART 305. Women and Art (4)
 - ART 306. Greek and Roman Art (4)
 - ART 323. Native North American Art (4)
 - ART 324. Pre-Columbian Art (4)
 - ART 328. Mexican Art (4)
 - ART 329. Chicano Art (4)
 - ART 420. Art from 1900 to the Present (4) (if not taken in Category A above)
 - ART 520. Contemporary Art, Theory and Criticism (4) (if not taken in Category A above)
2. Studio courses in a single area of specialization
 - Two five-unit courses chosen from one of the following specializations: (**Note:** Check course descriptions to ascertain which courses may be repeated for credit.)
 - Ceramics**
 - ART 355. Ceramics II (5)
 - ART 357. Ceramics III (5)

Graphic Design

- ART 320. Digital Image Editing (5)
 ART 322. Web Design (5)
 ART 325. Advanced Digital Editing (5)

Painting

- ART 304. Advanced Drawing and Life Drawing (5)
 ART 336. Advanced Painting (5)

Photography

- ART 391. Intermediate Photography (5)
 ART 392. Advanced Photography (5)
 ART 398. Documentary Photography (5)

Printmaking

- ART 361. Printmaking II (5)
 ART 362. Printmaking III (5)

Sculpture

- ART 341. Advanced Sculpture (5)
 3. ART 415. Senior Seminar: Art and Society (2)
 4. ART 416. Senior Project (2)

5. Art Education

Fourteen units as follows:

- ART 399. Art Education: History, Philosophy and Theory (4)
 ART 496. Art Education: Social and Cultural Frameworks (4)
 ART 497. Art Education: Issues in Studio Practice (2)
 ART 498. Art Education: Digital Technology (4)

B.A. IN ART - PLAN II (Specializations in Ceramics, Photography, Printmaking, Painting, Sculpture, Wood and Furniture Design)

Requirements (90 units, Woodworking - 85 units)

Total units required for graduation: 180

This program is designed for the student with a strong professional interest in art who may wish to pursue graduate studies.

Requirements for the B.A. in Art - Plan II:

Lower-division requirements (8 courses totalling 33 units, woodworking specialization - 28 units)

- ART 120. Introduction to Two Dimensional Design (4)
- ART 121. Introduction to Three Dimensional Design (4)
- ART 122. Introduction to Drawing and Life Drawing (4)
- ART 123. Introduction to Art and Technology (4)
- ART 221. Art History: Prehistoric Times through the Middle Ages (4)
- ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
- ART 223. Art History: Renaissance to the Present (4)

8. Five units chosen in the field of specialization:

- ART 235. Painting I (5)
 ART 240. Sculpture I (5)
 ART 254. Ceramics I (5)
 ART 260. Printmaking I (5)
 ART 290. Photography I (5)

Upper-division requirements (57 units)

1. History of Art

Eight units consisting of one four-unit course chosen from each of the following (A and B):

- A. ART 420. Art from 1900 to the Present (4)
 ART 520. Contemporary Art, Theory and Criticism (4)
- B. ART 305. Women and Art (4)
 ART 306. Greek and Roman Art (4)
 ART 310. Asian Art (4)
 ART 311. Art of the United States to the End of the Nineteenth Century (4)
 ART 314. The Art of Indigenous Peoples (4)
 ART 316. Arts of the Ancient Near East and Egypt (4)
 ART 321. Renaissance Art (4)
 ART 323. Native North American Art (4)
 ART 324. Pre-Columbian Art (4)
 ART 327. Baroque and Rococo Art (4)
 ART 328. Mexican Art (4)
 ART 329. Chicano Art (4)
 ART 333. History of Graphic Design (4)
 ART 359. History of Photography (4)
 ART 410. Studies in Art History (4)
 ART 420. Art from 1900 to the Present (4) (if not taken in Category A above)
 ART 423. Nineteenth Century European Art (4)
 ART 520. Contemporary Art, Theory and Criticism (4) (if not taken in Category A above)
 ART 525. Seminar in Art History (4)

2. Studio courses in a single area of specialization

Six five-unit courses chosen from one of the following specializations: (Note: Check course descriptions to ascertain which courses may be repeated for credit.)

Ceramics

- ART 355. Ceramics II (5)
 ART 357. Ceramics III (5)
 ART 375. Glass (5)

Painting

- ART 304. Advanced Drawing and Life Drawing (5)
 ART 336. Advanced Painting (5)

Photography

- ART 391. Intermediate Photography (5)
 ART 392. Advanced Photography (5)
 ART 393. Photographic Illustration and Design (5)
 ART 398. Documentary Photography (5)

Printmaking

- ART 313. Printing Production (5)
 ART 361. Printmaking II (5)

Sculpture

- ART 341. Advanced Sculpture (5)

Woodworking

- ART 368. Woodworking and Furniture Design I (5)
 ART 369. Advanced Woodworking and Furniture Design (5)

3. Three five-unit courses of studio electives, in at least two different areas not in the area of specialization, chosen from:

ART 313. Printing Production (5)
 ART 320. Digital Image Editing (5)
 ART 322. Web Design (5)
 ART 325. Advanced Digital Image Editing (5)
 ART 326. Interactive Multimedia Design (5)
 ART 336. Advanced Painting (5)
 ART 341. Advanced Sculpture (5)
 ART 355. Ceramics II (5)
 ART 357. Ceramics III (5)
 ART 361. Printmaking II (5)
 ART 362. Printmaking III (5)
 ART 368. Woodworking and Furniture Design I (5)
 ART 369. Advanced Woodworking and Furniture Design (5)

ART 375. Glass (5)
 ART 391. Intermediate Photography (5)
 ART 392. Advanced Photography (5)
 ART 393. Photographic Illustration and Design (5)
 ART 396. New Genres (5)

4. ART 415. Senior Seminar: Art and Society (2)
 5. ART 416. Senior Project (2)

B.A. IN ART - PLAN III (Art History)

Requirements (82 units)

Total units required for graduation: 180

This program is designed for the student with a strong professional interest in art history or museum work who may wish to pursue graduate studies.

Requirements for the B.A. in Art - Plan III:

Lower-division requirements (seven courses totalling 28 units)

- ART 120. Introduction to Two Dimensional Design (4)
- ART 121. Introduction to Three Dimensional Design (4)
- ART 122. Introduction to Drawing and Life Drawing (4)
- ART 123. Introduction to Art and Technology (4)
- ART 221. Art History: Prehistoric Times through the Middle Ages (4)
- ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
- ART 223. Art History: Renaissance to the Present (4)

Upper-division requirements (54 units)

- History of Art

Six courses consisting of two four-unit courses chosen from each of the following three groups (A, B and C). ART 410 may be credited where applicable with the consent of the Chair of the Art Department.

A. ART 305. Women and Art (4)
 ART 306. Greek and Roman Art (4)
 ART 316. Arts of the Ancient Near East and Egypt (4)

ART 321. Renaissance Art (4)
 ART 327. Baroque and Rococo Art (4)
 B. ART 311. Art of the United States to the End of the Nineteenth Century (4)
 ART 333. History of Graphic Design (4)
 ART 359. History of Photography (4)
 ART 423. Nineteenth Century European Art (4)
 ART 420. Art from 1900 to the Present (4)
 ART 520. Contemporary Art, Theory and Criticism (4)
 C. ART 310. Asian Art (4)
 ART 314. The Art of Indigenous Peoples (4)
 ART 323. Native North American Art (4)
 ART 324. Pre-Columbian Art (4)
 ART 328. Mexican Art (4)
 ART 329. Chicano Art (4)

- Upper-division studio art courses

Two five-unit courses chosen from:

ART 313. Printing Production (5)
 ART 320. Digital Image Editing (5)
 ART 322. Web Design (5)
 ART 325. Advanced Digital Image Editing (5)
 ART 326. Interactive Multimedia Design (5)
 ART 330. Animation and Web Motion-Graphics (5)
 ART 336. Advanced Painting (5)
 ART 341. Advanced Sculpture (5)
 ART 355. Ceramics II (5)
 ART 357. Ceramics III (5)
 ART 361. Printmaking II (5)
 ART 362. Printmaking III (5)
 ART 368. Woodworking and Furniture Design I (5)
 ART 369. Advanced Woodworking and Furniture Design (5)

ART 375. Glass (5)
 ART 391. Intermediate Photography (5)
 ART 392. Advanced Photography (5)
 ART 393. Photographic Illustration and Design (5)
 ART 396. New Genres (5)

- ART 415. Senior Seminar: Art and Society (2)
- ART 416. Senior Project (2)
- ART 525. Seminar in Art History (4)
- Twelve units or three quarters of one foreign language or equivalent proficiency. (Students are strongly advised to learn French and German.)

B.A. IN ART - PLAN IV (Graphic Design)

Requirements (85 units)

Total units required for graduation: 180

This program is designed for students with a strong professional interest in graphic design.

Requirements for the B.A. in Art - Plan IV:

Lower-division requirements (nine courses totalling 36 units)

- ART 120. Introduction to Two Dimensional Design (4)
- ART 121. Introduction to Three Dimensional Design (4)

3. ART 122. Introduction to Drawing and Life Drawing (4)
4. ART 123. Introduction to Art and Technology (4)
5. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
6. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
7. ART 223. Art History: Renaissance to the Present (4)
8. ART 232. Principles of Design Management (4)
9. ART 238. Production of Visual Information Design (4)

Upper-division requirements (49 units)

1. Art history
Four units chosen from:
 - ART 305. Women and Art (4)
 - ART 306. Greek and Roman Art (4)
 - ART 310. Asian Art (4)
 - ART 311. Art of the United States to the End of the Nineteenth Century (4)
 - ART 314. The Art of Indigenous Peoples (4)
 - ART 316. Arts of the Ancient Near East and Egypt (4)
 - ART 321. Renaissance Art (4)
 - ART 323. Native North American Art (4)
 - ART 324. Pre-Columbian Art (4)
 - ART 327. Baroque and Rococo Art (4)
 - ART 328. Mexican Art (4)
 - ART 329. Chicano Art (4)
 - ART 359. History of Photography (4)
 - ART 410. Studies in Art History (4)
 - ART 420. Art from 1900 to the Present (4)
 - ART 423. Nineteenth Century European Art (4)
 - ART 520. Contemporary Art, Theory and Criticism (4)
 - ART 525. Seminar in Art History (4)
2. ART 333. History of Graphic Design (4)
3. ART 342. Graphic Design I (5)
4. ART 343. Graphic Design II (5)
5. ART 344. Graphic Design III (5)
6. ART 442. Graphic Design IV (5)
7. ART 443. Graphic Design V (5)
8. Elective studio courses not in area of specialization
Two five-unit courses chosen from:
 - ART 313. Printing Production (5)
 - ART 320. Digital Imaging Editing (5)
 - ART 322. Web Design (5)
 - ART 325. Advanced Digital Image Editing (5)
 - ART 326. Interactive Multimedia Design (5)
 - ART 330. Animation and Web Motion-Graphics (5)
 - ART 336. Advanced Painting (5)
 - ART 341. Advanced Sculpture (5)
 - ART 355. Ceramics II (5)
 - ART 357. Ceramics III (5)
 - ART 361. Printmaking II (5)
 - ART 362. Printmaking III (5)
 - ART 368. Woodworking and Furniture Design I (5)
 - ART 369. Advanced Woodworking and Furniture Design (5)
 - ART 375. Glass (5)
 - ART 391. Intermediate Photography (5)

- ART 392. Advanced Photography (5)
- ART 393. Photographic Illustration and Design (5)
- ART 396. New Genres (5)
- 11. ART 415. Senior Seminar: Art and Society (2)
- 12. MKTG 305. Marketing Principles (4)

B.A. IN ART - PLAN V (Graphic Design and Marketing)

Requirements (89 units)

Total units required for graduation: 180

Requirements for the B.A. in Art - Plan V:

Lower-division requirements (eight courses totalling 32 units)

1. ACCT 211. Introductory Accounting (4)
2. ART 120. Introduction to Two Dimensional Design (4)
3. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
4. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
5. ART 223. Art History: Renaissance to the Present (4)
6. ART 232. Principles of Design Management (4)
7. ART 238. Production of Visual Information Design (4)
8. Four units chosen from:
 - ECON 200. Principles of Microeconomics (4)
 - ECON 202. Principles of Macroeconomics (4)
 - MGMT 100. Introduction to Business and Public Administration (4)

Upper-division requirements (45 units)

1. ART 333. History of Graphic Design (4)
2. ART 342. Graphic Design I (5)
3. ART 343. Graphic Design II (5)
4. ART 344. Graphic Design III (5)
5. ART 442. Graphic Design IV (5)
6. ART 443. Graphic Design V (5)
7. MKTG 305. Marketing Principles (4)
8. MKTG 410. Consumer Behavior (4)
9. MKTG 420. Advertising (4)
10. MKTG 446. Advertising Campaign (4)

Electives (12 units)

1. Twelve units chosen from (if not taken previously):
 - ART 301. Topics in Studio Art for Non-Majors (2.5)
 - ECON 200. Principles of Microeconomics (4)
 - ECON 202. Principles of Macroeconomics (4)
 - MGMT 100. Introduction to Business (4)
 - MGMT 302. Management and Organizational Behavior (4)
 - MGMT 442. Small Business Management (4)
 - MKTG 416. Marketing Research (4)
 - MKTG 430. Professional Selling (4)
 - MKTG 470. International Marketing Management (4)
 - MKTG 496. Marketing Planning and Strategy (4)
 - MKTG 575. Internship in Marketing (4)
 - MKTG 590. Seminar in Marketing (4)

MINOR IN ART HISTORY

Requirements (28 units)

Requirements for a minor in Art History:

Lower-division requirements (three courses totalling 12 units)

- ART 221. Art History: Prehistoric Times through the Middle Ages (4)
- ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
- ART 223. Art History: Renaissance to the Present (4)

Upper-division requirements (16 units)

- Art history
Sixteen units chosen from:
ART 305. Women and Art (4)
ART 306. Greek and Roman Art (4)
ART 310. Asian Art (4)
ART 311. Art of the United States to the End of the Nineteenth Century (4)
ART 314. The Art of Indigenous Peoples (4)
ART 316. Arts of the Ancient Near East and Egypt (4)
ART 321. Renaissance Art (4)
ART 323. Native North American Art (4)
ART 324. Pre-Columbian Art (4)
ART 327. Baroque and Rococo Art (4)
ART 328. Mexican Art (4)
ART 329. Chicano Art (4)
ART 333. History of Graphic Design (4)
ART 359. History of Photography (4)
ART 410. Studies in Art History (4)
ART 420. Art from 1900 to the Present (4)
ART 423. Nineteenth Century European Art (4)
ART 520. Contemporary Art, Theory and Criticism (4)
ART 525. Seminar in Art History (4)

MINOR IN STUDIO ART

Requirements (43 units)

Requirements for a minor in Studio Art:

Lower-division requirements (seven courses totalling 28 units)

- ART 120. Introduction to Two Dimensional Design (4)
- ART 121. Introduction to Three Dimensional Design (4)
- ART 122. Introduction to Drawing and Life Drawing (4)
- ART 123. Introduction to Art and Technology (4)
- ART 221. Art History: Prehistoric Times through the Middle Ages (4)
- ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
- ART 223. Art History: Renaissance to the Present (4)

8. Studio course

One lower-division course chosen from:

- ART 235. Painting I (5)
- ART 240. Sculpture I (5)
- ART 254. Ceramics I (5)
- ART 260. Printmaking I (5)
- ART 290. Photography I (5)

Upper-division requirements (10 units)

Studio courses

- Two five-unit courses chosen from:
ART 313. Printing Production (5)
ART 320. Digital Imaging Editing (5)
ART 322. Web Design (5)
ART 325. Advanced Digital Image Editing (5)
ART 326. Interactive Multimedia Design (5)
ART 336. Advanced Painting (5)
ART 341. Advanced Sculpture (5)
ART 342. Graphic Design I (5)
ART 357. Ceramics III (5)
ART 361. Printmaking II (5)
ART 362. Printmaking III (5)
ART 368. Woodworking and Furniture Design I (5)
ART 369. Advanced Woodworking and Furniture Design (5)
ART 375. Glass (5)
ART 391. Intermediate Photography (5)
ART 392. Advanced Photography (5)
ART 393. Photographic Illustration and Design (5)
ART 396. New Genres (5)

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Business Skills for the Artist

Certificate Requirements (32 units)

- ACCT 211. Introductory Accounting I (4)
- MGMT 442. Small Business Management (4)
- MKTG 305. Marketing Principles (4)
- Twenty units of upper-division studio art courses chosen in consultation with an advisor.

COURSE OFFERINGS IN ART (ART)

Lower Division

112. Special Topics in Art

Study of a selected topic, theme or movement in the visual arts. May be repeated for credit as topics change. (Credit to be arranged: 1 to 2 units)

120. Introduction to Two Dimensional Design

An introduction to and exploration of the basic principles, components and terminology of two dimensional design that are common to the visual arts. Included are two-dimensional theory, theories of color and light, and their creative use in visual art and design as a graphic means of expression and communication. Materials fee required. Formerly ART 211 and 212. (4 units)

121. Introduction to Three Dimensional Design

An introduction to and exploration of the elements and principles of three dimensional design and their applications, with emphasis on form in space, design systems, and contemporary art concepts. Experimentation in both natural and synthetic materials such as paper, clay, metal, and wood. Materials fee required. Formerly ART 213 and 214. (4 units)

122. Introduction to Drawing and Life Drawing

An introduction to techniques of drawing for the purpose of creative expression related to object placement in space, figure placement in space and rendering, as it applies to various fields of design. There is an emphasis on form, structure, values, proportions, line, gesture, and systems of perspective and space. Materials fee required. Formerly ART 215 and 216. (4 units)

123. Introduction to Art and Technology

An introduction to computer based digital technology used by visual artists and designers. Student projects explore the creative potential of the digital environment and its relationship to the studio and design concentrations. Work includes instruction in a Macintosh-based computer laboratory in software programs used by studio artists. Materials fee required. Formerly ART 217 and 218. (4 units)

200. Studies in Art

Exploration of the form and content of art. Emphasis on understanding and appreciating painting, sculpture, architecture and other art media. May not be counted toward fulfilling requirements in the art major. (GE=C.1) (4 units)

221. Art History: Prehistoric Times through the Middle Ages

Development of early Western art and its historical context. Formerly Art 210A. (4 units)

222. Art History: Africa, Asia, the Americas and Oceania

Development of global arts and their historical contexts, including traditions of Africa, Asia, the Americas and Oceania. (4 units)

223. Art History: Renaissance to the Present

Development of later Western art and its historical context. Formerly ART 210C. (4 units)

232. Principles of Design Management

An introduction to basic procedures used by designers and production managers including techniques of problem solving, presentation, typography, layout and graphic arts practices, and composition and includes instruction in graphics software programs in a Macintosh-based computer laboratory. The focus will be on concept, process and product. Materials fee required. Formerly ART 332. Prerequisites: ART 120 and 122 or consent of instructor. (4 units)

235. Painting I

Pictorial functions of formal elements of picture-making such as line, plane, color and light, pattern and edge. Two hours lecture and six hours laboratory. Formerly ART 335. Prerequisites: ART 120 and 122. (5 units)

238. Production of Visual Information Design

An introduction to the fundamentals of pre-press and printing production in a digital environment and includes instruction in graphics software programs in a Macintosh-based computer laboratory. Materials fee required. Formerly ART 338. Prerequisites: ART 120 and 122 or consent of instructor. (4 units)

240. Sculpture I

Approaches to sculpture using a variety of materials, tools, processes and concepts. Materials fee required. Two hours lecture and six hours laboratory. Formerly ART 340. Prerequisite: ART 121 or consent of instructor. (5 units)

254. Ceramics I

Beginning techniques of coil/slab building, wheel throwing, mold making, and glaze applications of low and high fire surfaces. Two hours lecture and six hours laboratory. Materials fee required. Formerly ART 354. (5 units)

260. Printmaking I

Introduction to the basic processes and materials of printmaking with a thorough exploration of monotypes, color reduction and relief techniques, including wood and linoleum cutting and other processes. Two hours lecture and six hours laboratory. Materials fee required. Formerly ART 360. Prerequisites: ART 120, 122, and 123 or consent of instructor. (5 units)

290. Photography I

Creative research in the study of photography, to include content, design, technique and individual problems. Two hours lecture and six hours laboratory. Formerly ART 390. Materials fee required. (5 units)

Upper Division**301. Topics in Studio Art for Non-Majors**

Introduction to and experimentation in selected areas of art. Not open to art majors. May be repeated for credit as topics change. Materials fee required. (2.5 units)

302. Topics in Studio Art for Non-Majors

Introduction to and experimentation in selected areas of art. Not open to art majors. May be repeated for credit as topics change. (5 units)

304. Advanced Drawing and Life Drawing

Further exploration in techniques of drawing for purposes of creative expression. A maximum of 25 units may be applied toward the major. Prerequisites: ART 122 or consent of instructor. (5 units)

305. Women and Art

Survey of women artists in Europe and America from ancient to modern times, contrasting feminist and conventional perspectives. Explores issues of artistic style and content and examines the institution of patronage and its effect on women artists. Formerly a topic under ART 410. (4 units)

306. Greek and Roman Art

Architecture, sculpture, painting and decorative arts of ancient Greece and Rome. Materials fee required. (4 units)

310. Asian Art

History and development of selected Asian art traditions in their historical contexts. (4 units)

311. Art of the United States to the End of the Nineteenth Century

Development of American art from the Colonial period to c. 1900. Significant examples from the fields of architecture, sculpture, painting and the decorative arts. (4 units)

313. Printing Production

Foundation of printing production including procedures for operating a two-color offset press and related tools and equipment. Materials fee required. (5 units)

314. The Art of Indigenous Peoples

Art of the native cultures of Africa, the South Pacific and North America; post-conquest and contemporary folk art in Central and South America. (4 units)

316. Arts of the Ancient Near East and Egypt

History and development of the architecture, sculpture and decorative arts of the Ancient Near East and Egypt. (4 units)

320. Digital Image Editing

Introduction to image processing and editing software. Retouching, restoring, color correction, adjusting brightness, contrast and color balance, applying patterns, filters and special effects, create montages, paint and use selection, layering, feathering, and painting tools, gain an understanding of the significance of image formats and resolution for scanning and output, and work with processed images in other software applications. Two hours lecture and six hours laboratory. Materials fee required. (5 units)

321. Renaissance Art

Art and architecture of northern and southern Europe in the fifteenth and sixteenth centuries. (4 units)

322. Web Design

A hands-on course on the fundamentals of designing functional Web pages from the graphic designer's perspective. Includes general structure and tagging, troubleshooting techniques, and the use of graphically oriented web authoring tools. No prior computer experience required. Two hours lecture and six hours laboratory. Materials fee required. (5 units)

323. Native North American Art

Art of American Indian and Eskimo peoples north of Mexico, from earliest prehistory to modern times. (Also offered as ANTH 323. Students may not receive credit for both.) (4 units)

324. Pre-Columbian Art

Art and architecture of pre-Columbian cultures with an emphasis on Mexico and Peru. (Also offered as ANTH 324. Students may not receive credit for both.) (4 units)

325. Advanced Digital Editing

Advanced course in the use of the image processing software. Multiple masking, controlling color transparency, layers, luminosity, complex image compositing, duo-toning, tritoning, ghosting, 3-D, neon, pasting scanned images into text, photo-realism, typesetting, threshold masking, advanced file management, high-end scanning and output, RGB to CMYK and color separations, and offset reproduction. Presents the creative aspects of editing motion-graphics and still images and provides an analysis of the audio and visual forces that make digital media an expressive means of communication. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 320 or permission of instructor. (5 units)

326. Interactive Multimedia Design

An introduction to designing computer-based interactivity. Students combine two-dimensional and three-dimensional graphic imaging and audio and video technology for achieving interactivity from multiple source media. Interface and user design are covered, as well as portfolio and professional presentations online, and/or in CD/DVD/video formats. Two hours lecture and six hours laboratory. Materials fee required. (5 units)

327. Baroque and Rococo Art

Art and architecture of seventeenth and eighteenth century Europe. (4 units)

328. Mexican Art

Art and architecture of Mexico from the Conquest to the present. (4 units)

329. Chicano Art

Art and culture of Mexican Americans. (4 units)

330. Animation and Web Motion-Graphics

Advanced graphically oriented Web authoring tools. Covers scripting to create database connectivity and exploration of the newest Web innovations in game design and traditional character to contemporary experimental animation. This includes the use of cel, stop-motion, collage, mixed media and 2- and 3-D animation software. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 322 or consent of instructor. (5 units)

333. History of Graphic Design

Development of graphic communication from pictographs to contemporary design. (4 units)

336. Advanced Painting

Advanced work in painting. May be repeated for credit. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ART 235 or consent of instructor. (5 units)

341. Advanced Sculpture

Advanced work in sculpture. May be repeated for credit. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ART 240. (5 units)

342. Graphic Design I

Fundamentals and principles of typographic design. An examination of the different elements of typography. Instruction also includes coursework in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 232 and 238 or consent of instructor. (5 units)

343. Graphic Design II

Principles of photography, illustration, collage and typography applied to posters, games, book covers, magazines, point-of-purchase displays, and promotional materials, and includes instruction in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 342 or consent of instructor. (5 units)

344. Graphic Design III

Design principles as applied to regional and national, corporate and retail environments. Covers the interactions between business people and designers and the realities of planning, marketing, and strategic positioning of both company and product, and includes instruction in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 343 or consent of instructor. (5 units)

345. Gallery Management

Fine art gallery practices including installation, packing and crating, special event coordination and conduct. Preparation of publications and publicity, art handling and security. May be repeated for credit with consent of instructor. (2 units)

355. Ceramics II

Continued exploration in functional and sculptural approaches to ceramics utilizing slip casting, wheel throwing, hand building techniques, and multiple glazing applications with low fire and high fire surfaces. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 254 or consent of instructor. (5 units)

357. Ceramics III

Advanced exploration of form/surface relationships combining mold making, wheel throwing, slip casting and hand building techniques. Advanced glaze applications will result in the development of individual styles and ideas. May be repeated for credit. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 121 and 254 or consent of instructor. (5 units)

359. History of Photography

Development of the technology and aesthetics of photography. (4 units)

361. Printmaking II

Creative research in intermediate studio printmaking techniques in intaglio methods, including metal, collograph and related materials; methods used to create stencils for multi-color registration and printing including photo processing; lithographic methods on stone or metal plates; black and white and color processes and polymer relief processes. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 120, 122 and 260. (5 units)

362. Printmaking III

Intensive, advanced study of printmaking including the study of etching, collograph, silkscreen, lithography or experimental processes and combinations stressing individual growth and aesthetic control of imagery and technique. May be repeated three times for credit towards the degree. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 361. (5 units)

365. Directed Studio Problems

Study and experimentation in a selected area of art. May be repeated for credit. Materials fee may be required. Prerequisite: consent of instructor. (Credit to be arranged: 1 to 5 units)

368. Woodworking and Furniture Design I

Explorations in the use of hand and power tools in woodworking. Materials fee required. (5 units)

369. Advanced Woodworking and Furniture Design

Advanced work in woodworking and furniture design. May be repeated for credit. Materials fee required. Two hours lecture and six hours laboratory. Prerequisite: ART 368. (5 units)

375. Glass

Techniques of blown, stained, molded, neon and flame glass used in the formation of functional and sculptural objects. May be repeated for credit. Materials fee required. Two hours lecture and six hours laboratory. Prerequisites: ART 121 or consent of instructor. (5 units)

391. Intermediate Photography

Intermediate research in photography with an emphasis on process and technique, visual aesthetics and communication, and personal expression. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 or consent of instructor. (5 units)

392. Advanced Photography

Advanced work in photography. May be repeated for credit with a maximum of 20 units applied toward the major (units earned in ART 384 may be counted towards the 20 units). Formerly ART 384. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 120, 290, and 391 or consent of instructor. (5 units)

393. Photographic Illustration and Design

Fundamentals of commercial photography and composition. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290. (5 units)

394. Color Photography

The theory, aesthetics, techniques, and materials of creative color photography and other color imaging systems. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 or consent of instructor. (5 units)

395. Art in the Classroom

Provides basic art skills and experiences and current art education theory and practice for the elementary classroom teacher. Students will learn how to design art lessons and art activities based on works of art in accordance with California and National standards for the visual arts. May not be counted towards fulfilling requirements in the art major. Six hours of fine arts activity. Materials fee required. (3 units)

396. New Genres

Creative research and experimentation in contemporary artistic expression including installation art, performance art, and video art. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 120 and 121 or consent of instructor. (5 units)

397. Art and Media for the Classroom

Further development of basic art skills for the elementary classroom teacher. Includes appropriate materials for elementary students, preparing high and low tech classroom visual aids, and curriculum planning based on the California Visual and Performing Arts Frameworks. Two hours lecture and four hours activity. Materials fee required. Prerequisite: Art 395. (4 units)

398. Documentary Photography

Creative research in the study of social documentary and landscape photography, integrating history, technique, various stylistic and theoretical approaches, and practice. Includes a service-learning component that requires the production of a photographic project in partnership with a local agency or community group. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 or consent of instructor. (5 units)

399. Art Education: History, Philosophy and Theory

An introduction to art education emphasizing its evolution, historical structures and contemporary approaches to curriculum. Art education methodology and its relationship to studio art, art criticism, art heritage and aesthetics will be included along with developmental levels of children as they relate to art making. Recommended for art education students prior to senior year. (4 units)

410. Studies in Art History

Study in a selected period or topic in the history of art. May be repeated for credit as topics change. (4 units)

415. Senior Seminar: Art and Society

The theoretical and practical roles of art, artists and their audience through history to the present. Prerequisite: senior standing in Department of Art or consent of instructor. (2 units)

416. Senior Project

Preparation of a senior project in the student's area of concentration. Documentation of project is required. Graded credit/no credit. Prerequisite: senior standing in Department of Art or consent of instructor. (2 units)

420. Art from 1900 to the Present

Art from 1900 to the present, with emphasis on Europe and the United States. (4 units)

423. Nineteenth Century European Art

Art of the Nineteenth-century Europe; from neo-Classicism through post-Impressionism. (4 units)

442. Graphic Design IV

Advanced corporate identity, including logo and trademark design and related applications. Instruction includes coursework in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 344 or consent of instructor. (5 units)

443. Graphic Design V

Design and portfolio workshop: workshop in resume preparation, development of job objectives, mock interviews, and the construction of a portfolio. Instruction includes coursework in computer-graphics software programs in a Macintosh-based computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 442 or consent of instructor. (5 units)

483. Studies in Studio Art

Study and experimentation in a selected area of art. May be repeated for credit as topics change. Materials fee required. Prerequisites: ART 120, 121, 122, and 123 or consent of instructor. (5 units)

484. Studies in Studio Art

Study and experimentation in a selected area of art. May be repeated for credit as topics change. Materials fee required. Prerequisites: ART 120, 121, 122, and 123 or consent of instructor. (2.5 units)

496. Art Education: Social and Cultural Frameworks

A study of the historical and contemporary contexts for art and how they relate to current art education methods and curriculum. Issues of diversity, ethnicity, gender and environment will be included. Prerequisite: ART 399. (4 units)

497. Art Education: Issues in Studio Practice

Students will focus on translating studio techniques and materials into assignments, activities and curriculum appropriate for the student learner. Four hours activity. Prerequisite: ART 399. (2 units)

498. Art Education: Digital Technology

Digital technologies for the K-12 art classroom. Includes theoretical methodologies and practical applications for digital curriculum design, multimedia presentations, school-based web pages; virtual galleries, visual aids, and computer assisted student projects. Three hours lecture and two hours laboratory. Prerequisites: ART 123, 399 and 232 or 238. (4 units)

499. Art Education: Methods and Materials

A synthesis of contemporary art education theory, studio practice, student assessment and topics of classroom teaching. Students experience planning and developing lessons, units and curriculum that are sensitive to contemporary art and art education issues. Prerequisites: ART 399, 496 and 497. (4 units)

520. Contemporary Art, Theory and Criticism

An examination of selected major movements of contemporary art, and recent art theory and criticism. Formerly ART 459 and 625. Prerequisite: a minimum of 12 units in art history. (4 units)

525. Seminar in Art History

Historical perspectives on specific art disciplines including research methods in art history for studio artists. Prerequisite: a minimum of 12 units in art history. (4 units)

575. Internship

Supervised work in a private or public setting which provides professional experience in the field of art. May be repeated for a maximum of 10 units in the major. Prerequisite: consent of instructor. (Credit to be arranged: 1 to 5 units)

595. Independent Study

Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of 10 units may apply toward graduation. Materials fee required. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

BILINGUAL/CROSS-CULTURAL STUDIES

The courses listed below are intended to be used by students who wish to complete simultaneously the Bachelor of Arts in Liberal Studies (see [Page 253](#)) and the requirements for the Multiple Subject Credential with Bilingual, Crosscultural, Language and Academic Development (BCLAD) (see [Page 155](#)). For further information concerning credential programs, contact the College of Education.

The university offers a certificate in bilingual/cross-cultural studies: Spanish/English. For further information, see [Page 338](#).

- ANTH 330. Cross-Cultural Child-Rearing Practices (4)
- ANTH 354. Cultures of Mexico and Central America (4)
- ANTH 356. Cultures of South America (4)
- ANTH 460. Language and Culture (4)
- ART 328. Mexican Art (4)
- EESL 536. Crosscultural Teaching (4)
- FLAN 320. Masterpieces of Literature (4)
- HIST 390. History of Modern Mexico (4)
- HIST 391. Chicano History (4)
- HIST 470. Modern Latin America (4)
- HUM 335. The Origin and Contemporary Role of Latino Culture (4)
- IS 460. Aspects of Chicano Culture (4)
- MUS 351. Latin American Music (4)
- SPAN 101. College Spanish I (4)
- and
- SPAN 102. College Spanish II (4)
- SPAN 150. Intermediate Spanish (4)
- SPAN 312. Techniques for Professional Interpreting and Translating in Spanish (4)
- SPAN 314. Advanced Conversation (4)
- SPAN 316. Spanish for the Professions (4)
- SPAN 400. Masterpieces in Spanish and Spanish American Literature (4)
- SPAN 402. Advanced Composition (4)
- SPAN 415. Comparative Linguistics: Spanish/English (4)
- SPAN 440. Mexican Literature (4)
- SPAN 514. Seminar in Hispanic Language, Literature or Film (4)

BIOLOGY

Department of Biology

Biological Sciences Building, Room 329
880-5305

Bachelor of Arts

Biology
Biology - Pre-Med Option

Bachelor of Science

Biology
Biology - Pre-Med Option

Teaching Credential Program

Single Subject

Minor

Biology

Certificate Program

Biotechnology

Master of Science

Biology
(Degree requirements can be found on [Page 375.](#))

FACULTY: Nicole Bournias, Klaus Brasch, Herbert Brunkhorst, Richard Fehn, James Ferrari, Dalton Harrington (Emeritus), Sarojam Mankau (Emeritus), Anthony Metcalf, David Polcyn, Alexander Sokoloff (Emeritus), Stuart Sumida, John Skillman, Colleen Talbot, Jeffrey Thompson (Chair), Gerald Thrush, Ching-Hua Wang, Kimberly Williams, Ruth Wilson

The major in biology emphasizes the relationship between structure and function in living systems and the concept that biological processes can be studied at different levels of organization. The program provides a balanced blend of traditional and modern biology, incorporating the important generalizations of traditional biology and the more recent advances essential to the successful biologist or medical practitioner of the future.

The excellent facilities and equipment of the department are readily available to all students enrolled in biology courses. Qualified seniors are encouraged to engage in research projects through the independent study program.

Many career opportunities are available to the student majoring in biology. The undergraduate program provides an excellent background for further work in medicine, dentistry, veterinary medicine and graduate programs. It can also serve for entry into a career in education, industry and governmental organizations.

Field trips are a normal and required part of a number of courses.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in biology should consult with a departmental advisor.

B.A. IN BIOLOGY

Requirements (94 units)

Total units required for graduation: 180

Requirements for the B.A. in Biology:

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- Organic chemistry
A minimum of nine units chosen from Group A or B below:
Group A:
CHEM 221A. Organic Chemistry I (3)
CHEM 222A. Organic Chemistry II (3)
CHEM 223A. Organic Chemistry III (3)
Group B:
CHEM 321. Principles of Organic Chemistry I (5)
CHEM 322. Principles of Organic Chemistry II (5)
CHEM 323. Principles of Organic Chemistry III (5)
- Four units chosen from:
MATH 192. Methods of Calculus (4)
MATH 211. Basic Concepts of Calculus (4)
- Physics
A minimum of thirteen units chosen from Group A or B below:
Group A:
PHYS 121. Basic Concepts of Physics I (5)
PHYS 122. Basic Concepts of Physics II (4)
PHYS 123. Basic Concepts of Physics III (4)
Group B:
PHYS 221. General Physics I (5)
PHYS 222. General Physics II (5)
PHYS 223. General Physics III (5)
- BIOL 300. Cellular Physiology (5)
- BIOL 400. Molecular Biology (6)
- BIOL 421. Genetics (4)
- BIOL 422. Genetics Laboratory (1)
- Five units chosen from:
BIOL 450. Ecology (5)
BIOL 455. Marine Biology and Ecology (5)
- A minimum of 20 units of upper-division biology courses from Groups A-D, with at least one course from each of Group A, B and C:
Group A:
BIOL 319. Local Flora (5)
BIOL 354. Biology of Higher Plants (5)
BIOL 360. Functional Anatomy of Plants (5)
BIOL 431. Comparative Plant Physiology (6)
Group B:
BIOL 320. Microorganisms (6)
BIOL 323. Human Anatomy and Physiology for Majors I (5)
BIOL 331. Biology of Invertebrates (6)
BIOL 342. Biology of the Chordates (6)
BIOL 371. Parasitology (5)
BIOL 424. Comparative Animal Physiology (6)

- BIOL 440. Principles of Development (5)
 BIOL 476. Immunology (5)
Group C:
 BIOL 321. Evolution (4)
 BIOL 340. Comparative Embryology (4)
 BIOL 370. Symbiosis (4)
 BIOL 402. Genetic Engineering (4)
 BIOL 428. Concepts of Molecular Genetics (4)
 BIOL 472. Virology (4)
 BIOL 480. Introduction to Neurobiology (4)

- Group D:**
 BIOL 324. Human Anatomy and Physiology for Majors II (5)
 BIOL 335. Entomology (5)
 BIOL 380. Medical and Economic Botany (4)
 BIOL 390. Biology Seminar (1)
 BIOL 396. Directed Study (1-2)
 BIOL 490. Special Topics (1-3)
 BIOL 491. Special Laboratory Topics (1-3)
 BIOL 492. Recombinant DNA Techniques (4)
 BIOL 522. Population Genetics (4)
 BIOL 524. Advanced Vertebrate Morphology (3)
 BIOL 530. Scanning Electron Microscopy (5)
 BIOL 531. Transmission Electron Microscopy (5)
 BIOL 532. Techniques in Ultrastructure Analysis (5)
 BIOL 565. Physiological Ecology (6)
 BIOL 575. Internship in Biology (2)
 BIOL 576. Endocrinology (4)
 BIOL 590. Senior Seminar (2)
 BIOL 595. Independent Study (1-6)

B.A. IN BIOLOGY - PRE-MED OPTION

Requirements (94-96 units)

Total units required for graduation: 180

The Pre-med option will 1) satisfy the requirements for the B.A. in Biology; 2) satisfy the minimum requirements for entry to most medical schools; and 3) provide additional background courses which will improve preparation for medical school.

Requirements for the B.A. in Biology - Pre-Med Option:

Lower-division requirements (53-55 units)

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- A minimum of nine units chosen from (note: medical schools will require the laboratory):
 CHEM 221A. Organic Chemistry I: Lecture (3)
 CHEM 221B. Organic Chemistry I: Laboratory (1)
 CHEM 222A. Organic Chemistry II: Lecture (3)
 CHEM 222B. Organic Chemistry II: Laboratory (1)

- CHEM 223A. Organic Chemistry III: Lecture (3)
 CHEM 223B. Organic Chemistry III: Laboratory (1)

- Four units chosen from:
 MATH 192. Methods of Calculus (4)
 MATH 211. Basic Concepts of Calculus (4)
- A minimum of thirteen units, chosen from Group A or B below:

- Group A:**
 PHYS 121. Basic Concepts of Physics I (5)
 PHYS 122. Basic Concepts of Physics II (4)
 PHYS 123. Basic Concepts of Physics III (4)

- Group B:**
 PHYS 221. General Physics I (5)
 PHYS 222. General Physics II (5)
 PHYS 223. General Physics III (5)

Upper-division requirements (41 units)

- BIOL 300. Cell Physiology (5)
- BIOL 400. Molecular Biology (6)
- BIOL 421. Genetics (4)
- BIOL 422. Genetics Laboratory (1)
- Five units chosen from:
 BIOL 450. Ecology (5)
 BIOL 455. Marine Biology and Ecology (5)
- A minimum of 20 units of upper-division biology courses, with at least one course from Group A, B, and C:

- Group A:**
 BIOL 319. Local Flora (5)
 BIOL 354. Biology of Higher Plants (6)
 BIOL 360. Functional Anatomy of Plants (5)
 BIOL 431. Comparative Plant Physiology (6)

- Group B:**
 BIOL 320. Microorganisms (6)
 BIOL 323. Human Anatomy and Physiology for Biology Majors I (6)
 BIOL 371. Parasitology (5)
 BIOL 476. Immunology (5)

- Group C:**
 BIOL 472. Virology (4)
 BIOL 480. Introduction to Neurobiology (4)

- Group D:**
 BIOL 324. Human Anatomy and Physiology for Biology Majors II (6)
 BIOL 335. Entomology (5)
 BIOL 380. Medical and Economic Botany (4)
 BIOL 390. Biology Seminar (1)
 BIOL 396. Directed Study (1-2)
 BIOL 490. Special Topics (1-3)
 BIOL 491. Special Laboratory Topics (1-3)
 BIOL 492. Recombinant DNA Techniques (4)
 BIOL 522. Population Genetics (4)
 BIOL 524. Advanced Vertebrate Morphology (3)
 BIOL 530. Scanning Electron Microscopy (5)
 BIOL 531. Transmission Electron Microscopy (5)
 BIOL 532. Techniques in Ultrastructure Analysis (5)
 BIOL 565. Physiological Ecology (6)
 BIOL 575. Internship in Biology (2)
 BIOL 576. Endocrinology (4)
 BIOL 590. Senior Seminar (2)

- BIOL 595. Independent Study (1-6)
 Additional courses which will be useful for medical school preparation include:
 BIOL 324. Human Anatomy and Physiology for Biology Majors II
 BIOL 380. Medical and Economic Botany
 BIOL 576. Endocrinology
 CHEM 436. Biochemistry I
 CHEM 437. Biochemistry II

B.S. IN BIOLOGY

Requirements (114 - 119 units)

Total units required for graduation: 186

Requirements for the B.S. in Biology:

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- A minimum of 53 units of upper-division biology courses to include each of the following:
 - BIOL 300. Cell Physiology (5)
 - BIOL 400. Molecular Biology (6)
 - BIOL 421. Genetics (4)
BIOL 422. Genetics Laboratory (1)
 - BIOL 450. Ecology (5)
 - Either Group 1 or 2 below:

Group 1:
 BIOL 354. Biology of Higher Plants (6)
 BIOL 424. Comparative Animal Physiology (6)

Group 2:
 BIOL 431. Comparative Plant Physiology (6)
 and one of the following:
 BIOL 342. Biology of the Chordates (6)
 BIOL 331. Biology of Invertebrates (6)
- A minimum of 20 units of upper-division elective course work in biology.
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- Five units chosen from:
 CHEM 245. Modern Quantitative Analysis (5)
 CHEM 436. Biochemistry I (5)
- Organic chemistry
 A minimum of twelve units chosen from Group A or B below:

Group A:
 CHEM 221A. Organic Chemistry I: Lecture (3)
 CHEM 221B. Organic Chemistry I: Laboratory (1)
 CHEM 222A. Organic Chemistry II: Lecture (3)
 CHEM 222B. Organic Chemistry II: Laboratory (1)
 CHEM 223A. Organic Chemistry III: Lecture (3)
 CHEM 223B. Organic Chemistry III: Laboratory (1)

Group B:
 CHEM 321. Principles of Organic Chemistry I (5)
 CHEM 322. Principles of Organic Chemistry II (5)
 CHEM 323. Principles of Organic Chemistry III (5)

Note: The requirement in organic chemistry may be met by the completion of one year of transferable organic chemistry course work from another institution of higher education.

- Four units chosen from:
 MATH 192. Methods of Calculus (4)
 MATH 211. Basic Concepts of Calculus (4)
- Physics
 A minimum of thirteen units chosen from Group A or B below:

Group A:
 PHYS 121. Basic Concepts of Physics I (5)
 PHYS 122. Basic Concepts of Physics II (4)
 PHYS 123. Basic Concepts of Physics III (4)

Group B:
 PHYS 221. General Physics I (5)
 PHYS 222. General Physics II (5)
 PHYS 223. General Physics III (5)

B.S. IN BIOLOGY - PRE-MED OPTION

Requirements (91-101 units)

Total units required for graduation: 186

The Pre-med option will 1) satisfy the requirements for the B.S. in Biology; 2) satisfy the minimum requirements for entry to most medical schools; and 3) provide additional background courses which will improve preparation for medical school.

Requirements for the B.S. in Biology - Pre-Med Option:

Lower-division courses (58-68 units)

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- Five or ten units chosen from:
 CHEM 245. Modern Quantitative Analysis (5)
 or both
 CHEM 436. Biochemistry I (5)
 CHEM 437. Biochemistry II (5)
- A minimum of nine units chosen from (note: medical schools will require the laboratory):
 CHEM 221A. Organic Chemistry I: Lecture (3)
 CHEM 221B. Organic Chemistry I: Laboratory (1)
 CHEM 222A. Organic Chemistry II: Lecture (3)
 CHEM 222B. Organic Chemistry II: Laboratory (1)
 CHEM 223A. Organic Chemistry III: Lecture (3)
 CHEM 223B. Organic Chemistry III: Laboratory (1)
- Four units chosen from:
 MATH 192. Methods of Calculus (4)
 MATH 211. Basic Concepts of Calculus (4)
- A minimum of thirteen units, chosen from Group A or B below:

Group A:
 PHYS 121. Basic Concepts of Physics I (5)
 PHYS 122. Basic Concepts of Physics II (4)
 PHYS 123. Basic Concepts of Physics III (4)

Group B:

- PHYS 221. General Physics I (5)
 PHYS 222. General Physics II (5)
 PHYS 223. General Physics III (5)

Upper-division requirements (33 units)

1. BIOL 300. Cell Physiology (5)
2. BIOL 400. Molecular Biology (6)
3. BIOL 421. Genetics (4)
4. BIOL 422. Genetics Laboratory (1)
5. Five units chosen from:
 - BIOL 450. Ecology (5)
 - BIOL 455. Marine Biology and Ecology (5)
6. Twelve units chosen from Group 1 or Group 2:
 - Group 1:**
 - BIOL 354. Biology of Higher Plants (6)
 - BIOL 424. Comparative Animal Physiology (6)
 - Group 2:**
 - BIOL 431. Comparative Plant Physiology (6) and one of the following:
 - BIOL 342. Biology of the Chordates (6)
 - BIOL 331. Biology of Invertebrates (6)
7. A minimum of 20 units of upper-division biology courses. Suggested courses which may be useful for medical school preparation include:
 - BIOL 320. Microorganisms
 - BIOL 323. Human Anatomy and Physiology for Biology Majors I
 - BIOL 324. Human Anatomy and Physiology for Biology Majors II
 - BIOL 371. Parasitology
 - BIOL 380. Medical and Economic Botany
 - BIOL 472. Virology
 - BIOL 476. Immunology
 - BIOL 480. Introduction to Neurobiology
 - BIOL 576. Endocrinology

TEACHING CREDENTIAL PROGRAM

Teaching Credential Preparation Program Subject Matter Preparation Program in Science: Biology

The California Commission on Teacher Credentialing (CCTC) requirements for a waiver of the PRAXIS/SSAT exams in biology are as follows:

1. A B.A. or B.S. in Biology equivalent to the degree requirements for CSUSB.
2. Upper-division courses must include a course in each of the following:
 - Plant Biology
 - Animal Biology
 - Ecology
 - Human Biology
 - Physiology
 - Genetics
 - Senior Seminar
3. Additional courses must include:
 - GEOL 101. Physical Geology
 - GEOL 250. Historical Geology

- GEOL 306. Oceans and Atmospheres for the Science Teacher
- NSCI 300. Science and Technology
- PHYS 103. Descriptive Astronomy

Contact a department advisor for more details.

MINOR IN BIOLOGY

Requirements (56 units)

Requirements for a minor in Biology:

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
5. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
6. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
7. Four units chosen from:
 - MATH 120. Pre-Calculus Mathematics (4)
 - MATH 192. Methods of Calculus (4)
 - MATH 211. Basic Concepts of Calculus (4)
8. Physics
 - Five units chosen from:
 - PHYS 100. Physics in the Modern World (5)
 - PHYS 121. Basic Concepts of Physics I (5)
 - PHYS 221. General Physics I (5)
9. A minimum of fifteen upper-division units (3 courses) in biology, which must include at least one laboratory-based course.

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Biotechnology

Admission to the Program

1. One of the following:
 - A. Completion of the following core program of courses for students majoring in biology, chemistry or biochemistry:
 - BIOL 200. Biology of the Cell
 - BIOL 201. Biology of Organisms
 - BIOL 202. Biology of Populations
 - BIOL 300. Cell Physiology
 - BIOL 421. Genetics
 - BIOL 422. Genetics Laboratory
 - CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding

- CHEM 216. General Chemistry II: Principles of Chemical Reactions
 CHEM 221A. Organic Chemistry I: Lecture
 CHEM 222A. Organic Chemistry II: Lecture
 CHEM 223A. Organic Chemistry III: Lecture
 B. Completion of a B.A. or B.S. in Biology, Chemistry or Biochemistry at this university, or equivalent.

Certificate Requirements (29 units)

- BIOL 400. Molecular Biology (6)
- BIOL 402. Genetic Engineering (4)
- BIOL 492. Recombinant DNA Techniques (4)
- A minimum of 15 units chosen from:
 - BIOL 320. Microorganisms (6)
 - BIOL 476. Immunology (5)
 - BIOL 575. Internship in Biology (2)
 - BIOL 590A. Senior Seminar: Molecular (2)
 - BIOL 595. Independent Study (2) (with a grade of "B" or better)
 - CHEM 436. Biochemistry I (5)
 - CHEM 437. Biochemistry II (5)
 - CHEM 439. Separation Techniques in Biochemistry (2)

HONORS IN BIOLOGY

Candidacy for departmental honors in biology is voluntary. To be eligible a student must fulfill the following requirements:

- Achieve a minimum grade point average of 3.5 for all courses satisfying the requirements for the major (as defined above);
- Take at least five courses in the major at this university;
- Satisfactorily complete BIOL 595. Independent Study;
- Satisfactorily complete the departmental comprehensive examination.

Application for candidacy must be made at the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor will have sole responsibility for acceptance of the completed project.

The department may grant honors to exceptional students who fail to meet the above requirements, but who have in the judgment of the department brought distinction upon themselves and the department in some other appropriate manner.

COURSE OFFERINGS IN BIOLOGY (BIOL)

Lower Division

100. Topics in Biology

Provides a broad understanding of biology, our molecular-organismic-ecological heritage and humankind's place within the biosphere. Four hours lecture and three hours laboratory. (GE=B.2) (5 units)

200. Biology of the Cell

Provides basic understanding of the process of life and the universality of life processes at the molecular and cellular level. Four hours lecture and three hours laboratory. A strong

background equivalent to one year each of high school biology and chemistry is highly recommended. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (BIOL 200+201+202=CAN BIOL SEQ A) (5 units)

201. Biology of Organisms

Provides basic understanding of the functional attributes of organisms and their diversity. Includes examination of their comparative and evolutionary relationships. Four hours lecture and three hours laboratory. Prerequisite: BIOL 200 with a grade of "C" or better. (BIOL 200+201+202=CAN BIOL SEQ A) (5 units)

202. Biology of Populations

Provides a basic understanding of the principles of genetics, evolution and ecology of organisms, populations, and communities. Four hours lecture and three hours laboratory. Prerequisite: BIOL 201 with a grade of "C" or better. (GE=B.2) (BIOL 200+201+202=CAN BIOL SEQ A) (5 units)

216. Genetics and Society

Technological advances in human genetics and their impact on society. Biological and ethical perspectives of the application of genetic research. Two hours lecture. (GE=B.4) (2 units)

217. Biology of Sexually Transmitted Diseases

The pathogenesis, biology of the agent, treatment and diagnosis of the prominent sexually transmitted diseases. Impact of current biotechnology in relation to vaccine development, experimental treatments, and improved diagnostics and screening. Two hours lecture. (GE=B.4) (2 units)

220. Principles of Microbiology

Morphology, physiology and classification of bacteria, fungi and viruses. Microbiology of air, soil and dairy products; rudiments of infection and immunity. Laboratory training in culture preparation, sterilization, inoculation and identification. Four hours lecture and three hours laboratory. Prerequisite: one lower-division biology course. (BIOL 220=CAN BIOL 14) (5 units)

223. Human Physiology and Anatomy I

Comprehensive study of human form and function including living chemistry, cells, tissues, skeletal, muscular and nervous systems. Four hours lecture and three hours laboratory. Prerequisite: one lower-division biology course. (BIOL 223+224=CAN BIOL SEQ B) (5 units)

224. Human Physiology and Anatomy II

Continuation of BIOL 223 with coverage of special senses, digestive, respiratory, cardiovascular, urinary, endocrine and reproductive systems. Four hours lecture and three hours laboratory. Prerequisite: BIOL 223. (BIOL 223+224=CAN BIOL SEQ B) (5 units)

250. Biology of Ecosystems

Survey of the heredity and environmental factors that influence the survival and reproduction of the organisms that compose the dynamic ecosystems of planet Earth with a consideration of evolution and extinction. Four hours lecture and three hours laboratory. (5 units)

251. Readings in Ecosystem Biology

Selected assigned readings in ecosystem biology. For students formally enrolled in the University Honors Program and in BIOL 250. One hour of discussion. Prerequisite or corequisite: BIOL 250. Must be completed within two quarters of having completed BIOL 250. (1 unit)

Upper Division**300. Cell Physiology**

Study of cell properties, organization and activities; consideration of structure-function relationships of cellular membranes, the cell surface and cytoskeletal elements; metabolism of cell growth, maturation, specialized function and reproduction. Four hours lecture and three hours laboratory. Prerequisites: BIOL 200, 201 and 202 with grades of "C" or better; CHEM 215 and 216. (5 units)

301. Biology in the Classroom

A comprehensive survey of the design and function of living organisms, from the cellular through the ecosystem levels as these relate to instruction in the elementary and middle school classroom. Unifying concepts such as evolution, energetics and the chemical nature of life will be stressed throughout. Three hours lecture and three hours laboratory. This course does not satisfy any requirements for the B.A. or B.S. major in Biology. (4 units)

304. Biology of Cancer

A comprehensive survey of the biological principles underlying the causes and treatment of cancer. Topics include the genetics of cancer, factors affecting tumor growth, host defense against cancer cells, and modern therapeutic protocols. Four hours lecture. This course does not satisfy requirements for the B.A. and B.S. majors in biology. Prerequisite: BIOL 100. (4 units)

305. Biology of the Dinosauria

A survey of major groups of dinosaurs, their interrelationships, and biology. Examples from dinosaurs and their close relatives are used to highlight and explain important issues and topics in biology such as anatomy, evolution, biogeography, climate change, ecology, the use of the scientific literature, and popular interpretations of science. This course does not satisfy any requirements for the B.A. or B.S. in Biology. Four hours lecture. Prerequisite: one lower-division biology course. (4 units)

306. Human Heredity and Development

Introductory course in human development. Emphasis on the principles of heredity as they apply to normal human developmental sequences from fertilization to adolescence. Birth defects relating to heredity, and drug or other environmental factors will illustrate how developmental sequences can be modified before birth. This course does not satisfy any requirements for the B.A. or B.S. major in Biology. Prerequisite: one lower-division biology course. (4 units)

314. Biology of Human Sexuality

Biological aspects of human anatomy, physiology and behavior as related to sexual reproduction including discussion of fertility, pregnancy, childbirth and birth control; consideration also given to homosexuality, sexually transmitted diseases,

sexual intercourse and response. Four hours lecture. This course does not satisfy any requirements for the B.A. or B.S. major in Biology. Prerequisite: one lower-division biology course. (4 units)

319. Local Flora

Identification of the flora and ecological communities of southern California with a consideration of taxonomic principles. Field collections, four hours lecture and three hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better or consent of instructor. (5 units)

320. Microorganisms

Study of microbial organisms: their cell structure and function, metabolism, genetics and ecology with an introduction to bacterial, viral, fungal, and protozoan pathogens. Four hours lecture and six hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

321. Evolution

Darwin, views of evolution and their implications in various disciplines. Four hours lecture. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

323. Human Anatomy and Physiology for Biology Majors I

Comprehensive study of the human form and its function in the broader context of vertebrate animals. Topics include: early development, integumentary, skeletal, muscular, nervous systems, and special senses. Four hours lecture and six hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

324. Human Anatomy and Physiology for Biology Majors II

Comprehensive study of the human form and its function in the broader context of vertebrate animals. Topics include early development of the head, and the following systems: digestive, respiratory, cardiovascular, excretory, reproductive, and endocrine. Four hours lecture and six hours laboratory. Prerequisites: BIOL 300 and 323 with grades of "C" or better. (6 units)

331. Biology of Invertebrates

The evolution and ecology of invertebrate phyla with emphasis on major phylogenetic changes. Field collections, four hours lecture and six hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

335. Entomology

A study of the evolution, anatomy, classification and habits of insects and related arthropods. Field collections, four hours lecture and three hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. (5 units)

340. Comparative Embryology

Descriptive survey of developmental patterns of tissue and organ formation to include studies of insects, echinoderms, and amphibian, avian, reptilian, marsupial plus placental mammalian vertebrate embryology. Three hours lecture and three hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. Biology 342 strongly recommended. (4 units)

342. Biology of the Chordates

Structural, developmental and ecological changes in the evolution of the chordate groups with an emphasis on comparative vertebrate anatomy. Four hours lecture and six hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

354. Biology of Higher Plants

Comparative morphology of ferns, fern allies and seed plants, with a consideration of their phylogenetic relationships. Four hours lecture and six hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

360. Functional Anatomy of Plants

Tissues and tissue aggregates in vascular plants, stressing the functional attributes of structure, with laboratory study of living and preserved plant material and prepared slides. Four hours lecture and three hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. (5 units)

370. Symbiosis

The nature and principles of biological interactions with a survey of various types of relationships such as commensalism, mutualism, parasitism and competition. Four hours lecture. Prerequisite: BIOL 300 with a grade of "C" or better or consent of instructor. (4 units)

371. Parasitology

Study of the nature and principles of parasitism with a survey of various groups of animal parasites. Four hours lecture and three hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. (5 units)

380. Medical and Economic Botany

Survey of medically and economically important plant species and families. Includes plants harmful and beneficial to humans, with emphasis on vascular species. Four hours lecture. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

390. Biology Seminar

Topics of current biological interest, presented by students, faculty, and guest speakers. May be taken once for credit toward the major. Lecture only. Graded credit/no credit. Prerequisite: BIOL 300 with a grade of "C" or better. (1 unit)

391. Seminar in Biology

Topics of current biological interest, presented by guest speakers, current faculty, and students are analyzed with associated primary literature and written summaries. May be taken once for credit toward the major. One hour lecture and three hours activity. Concurrent enrollment in BIOL 390 and 391 is not allowed. Graded credit/no credit. Prerequisites: BIOL 200, 201, 202 and 300. (2 units)

396. Directed Study

Reading and library research in an area of biology conducted under the direction of a faculty member in the Department of Biology. No more than two units may be applied toward a biology elective for graduation. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application form filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 or 2 units)

400. Molecular Biology

A basic course in molecular biology with emphasis on informational macromolecules and how they direct molecular processes in both eukaryotic and prokaryotic cells. Four hours lecture and six hours laboratory. Prerequisites: BIOL 300 with a grade of "C" or better and CHEM 223 or 323. (6 units)

402. Genetic Engineering

A basic course on recombinant DNA technology, concentrating on major DNA manipulation methods, use of vectors, genetic probes, construction of libraries, transgenic animals, plant genetic engineering and ethical and safety considerations. Four hours lecture. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, and CHEM 223 or 323. (4 units)

421. Genetics

Principles of classical and modern genetics including an introduction to population genetics. Four hours lecture. Concurrent enrollment in BIOL 422 is recommended. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

422. Genetics Laboratory

Laboratory experiments with *Drosophila melanogaster* to demonstrate Mendelian principles of inheritance, linkage mapping and determination of linkage groups to which a gene belongs. Three hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. Prerequisite or corequisite: completion of or concurrent enrollment in BIOL 421. (1 unit)

424. Comparative Animal Physiology

A comparative analysis of the physiological mechanisms and processes of animals with emphasis on trends of evolutionary specialization. Four hours lecture and six hours laboratory. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

428. Concepts of Molecular Genetics

Chemical nature of genes, their replication and mode of action at the molecular level. Transfer and expression of genetic information; interaction and hybridization of genes, molecular mutagens and molecular evolution. Four hours lecture. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, 421, 422 (or 423), and CHEM 223 or 323. (4 units)

431. Comparative Plant Physiology

Analysis of physiological activity at the various levels of cells, tissues, organs and organisms. Four hours lecture and six hours laboratory. Prerequisites: BIOL 300 with a grade of "C" or better, and CHEM 223 or 323. Recommended: BIOL 360. (6 units)

440. Principles of Development

Comparative analysis of patterns and processes of development of organisms, with emphasis on the role of genetic and biochemical mechanisms. Four hours lecture and three hours laboratory. Prerequisites: BIOL 300 with a grade of "C" or better, and CHEM 223 or 323. (5 units)

450. Ecology

Analysis of the interrelationships of organisms and their physical and biotic environment with a consideration of the role of the environment in natural selection. Four hours lecture and three hours laboratory/field studies. Prerequisites: BIOL 300 with a grade of "C" or better; and MATH 120, 192 or 211; or consent of instructor. (5 units)

455. Marine Biology and Ecology

Examination of various marine ecosystems with an analysis of the interactions between organisms and their physical and biotic environments. Laboratory emphasizes southern Californian coastal communities. Four hours lecture and three hours laboratory/field studies. Prerequisite: BIOL 300 with a grade of "C" or better or consent of instructor. (5 units)

472. Virology

Examination of the structure, genetics and modes of replication of viruses, viroids and other related sub-cellular entities; their implications in medicine and agriculture, and their use in scientific research. Four hours lecture. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

476. Immunology

Foundations of immunology and current advances in the study of the immunological response. Laboratory examination of immunological assays applied in both research and clinical diagnostics. Four hours lecture and three hours laboratory. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 421 and 422. (5 units)

480. Introduction to Neurobiology

Study on a cellular level of how neurons function in terms of structure, physiology and pharmacology. Mechanisms of inter-cellular communication, perception of sensory information, and development and aging of the nervous system will be examined. Four hours lecture. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

490. Special Topics

Group study of a selected topic, the title to be specified in advance. May be repeated for credit as topics change. Prerequisites: BIOL 300 with a grade of "C" or better and 15 units of upper-division biology course work.

- A. (1 unit)
- B. (2 units)
- C. (3 units)

491. Special Laboratory Topics

Group laboratory study of a selected topic, the title to be specified in advance. May be repeated for credit as topics change. Prerequisites: BIOL 300 with a grade of "C" or better and 15 units of upper-division biology course work.

- A. (1 unit)
- B. (2 units)
- C. (3 units)

492. Recombinant DNA Techniques

Techniques utilized in genetic engineering and biotechnology areas (mainly methods for isolating and analyzing genes, including bacterial isolation, DNA isolation and restriction analysis, transformation protocols and purification and manipulation of plasmid and chromosomal DNA techniques). A final research report will be required from the student. Two hours lecture and six hours laboratory. Prerequisites: BIOL 300 with a grade of "C" or better and BIOL 400. (4 units)

522. Population Genetics

Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Four hours lecture. Prerequisites: BIOL 421, 422 and MATH 192 or 211. (4 units)

524. Advanced Vertebrate Morphology

Advanced techniques in the study of vertebrates, including dissection and specimen preparation. Construction of animal skeletal materials, and detailed study and dissection of vertebrate organ systems will provide the basis for projects designed on an individual student basis. Two hours lecture and three hours laboratory. Prerequisites: BIOL 342, 424 and consent of instructor. (3 units)

530. Scanning Electron Microscopy

Theory and techniques of scanning electron microscopy. Lectures on theory of operation of the scanning electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the scanning electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. (Also offered as GEOL 530. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

531. Transmission Electron Microscopy

Theory and techniques of transmission electron microscopy. Lectures on theory of operation of the transmission electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the transmission electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. (Also offered as GEOL 531. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

532. Techniques in Ultrastructure Analysis

Specialized techniques in ultrastructural analysis using either the scanning or transmission electron microscope. Topics will vary, but will include specialized techniques in specimen preparation, alternative image detectors, and image analysis. Theory of the analysis and training in the technical aspects will be covered. Three hours lecture and six hours laboratory. (Also offered as GEOL 532. Students may not receive credit for both.) Prerequisites: BIOL 530 or 531, or GEOL 530 or 531 and consent of instructor. (5 units)

565. Physiological Ecology

Physiological, biochemical and molecular attributes of organisms and their interactions with the environment. Explanations for distribution, survival and reproduction. Four hours lecture and six hours laboratory. Prerequisites: BIOL 354 and 424; or 431 and 331 or 342; and 450. (6 units)

575. Internship in Biology

Supervised work and study in work situations involving biological research and technical skills. May be applied only once toward degree electives in biology programs. May be repeated twice for free elective credit. Graded credit/no credit. Prerequisite: department approval in the quarter prior to registration. (2 units)

576. Endocrinology

Endocrine systems with emphasis on mechanisms for regulating the biosynthesis, secretion, transport and actions of hormones. Four hours lecture. Formerly BIOL 486. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

590. Senior Seminar

Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change. Prerequisites: BIOL 300 with a grade of "C" or better, and a minimum of 15 upper-division units in biology courses supportive of the topic area and senior standing.

- A. Molecular (2 units)
- B. Biosystematics (2 units)
- C. Cellular (2 units)
- D. Physiology (2 units)
- E. Ecology (2 units)
- F. Bioethics (2 units)
- G. Genetics (2 units)
- H. Evolution (2 units)
- I. Microbiology (2 units)
- J. Zoology (2 units)
- K. Botany (2 units)

595. Independent Study

Laboratory and/or library research in selected areas in biology conducted under the direction of a faculty member. A total of six units in BIOL 595 may be applied toward graduation. Graded credit/no credit. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. All students will be required to attend the Biology Department colloquium called by the department chair each quarter until their projects are completed. (Credit to be arranged: 1 to 6 units)

CHEMISTRY

Accredited by the American Chemical Society

Department of Chemistry

Physical Sciences Building, Room 219
880-5318

Bachelor of Arts

Chemistry
Chemistry
Biochemistry Option

Bachelor of Science

Chemistry
ACS Certified Option
Biochemistry Option

Teaching Credential Preparation Program

Chemistry

Minor

Chemistry

FACULTY: Kimberley Cousins, John Craig, Ken Mantei, David Maynard (Chair), Larry Mink, Dennis Pederson, Lisa Shamansky, Douglas Smith, Brett Stanley, John Tate, Shumei Yang

The Department of Chemistry provides:

1. Undergraduate training in chemistry and biochemistry for students planning professional careers in chemistry and allied professions such as medicine, dentistry, pharmacy, health sciences and veterinary medicine and for those contemplating graduate work for advanced degrees;
2. Appropriate courses for the teacher credential program;
3. Fundamental chemical science courses required by students majoring in related fields such as physics and biology;
4. An understanding of the achievements and contributions of chemistry as a science.

The Bachelor of Science in Chemistry (ACS Certified Option) satisfies the requirements for certification by the American Chemical Society.

The Bachelor of Arts in Chemistry provides greater elective flexibility for double majors and for preprofessional, interdisciplinary or other programs involving substantial preparation in chemistry.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in chemistry should refer to [Page 70](#) of this catalog and consult with a departmental advisor.

Students interested in fields such as environmental science, environmental law, business, and clinical chemistry can pursue these by following the minimum requirements of the major and appropriate electives.

B.A. IN CHEMISTRY - CHEMISTRY OPTION

Requirements (87 to 89 units)

Total units required for graduation: 180

Requirements for the B.A. in Chemistry - Chemistry Option:

Lower-division requirements (47-49 units)

1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. CHEM 245. Modern Quantitative Analysis (5)
4. MATH 211. Basic Concepts of Calculus (4)
5. MATH 212. Calculus II (4)
6. MATH 213. Calculus III (4)
7. One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B for at least 12 quarter units). CSUSB physics sequences that satisfy this requirement are:

Sequence A:

- PHYS 121. Basic Concepts of Physics I (5)
PHYS 122. Basic Concepts of Physics II (4)
PHYS 123. Basic Concepts of Physics III (4)

Sequence B:

- PHYS 221. General Physics I (5)
PHYS 222. General Physics II (5)
PHYS 223. General Physics III (5)

8. Biological science

Five units chosen from:

- BIOL 100. Topics in Biology (5)
BIOL 200. Biology of the Cell (5)

Upper-division requirements (40 units)

1. CHEM 321. Principles of Organic Chemistry I (5)
 2. CHEM 322. Principles of Organic Chemistry II (5)
 3. CHEM 323. Principles of Organic Chemistry III (5)
- Note:** Subject to departmental approval the organic chemistry requirement may be met with the following:

- CHEM 221A. Organic Chemistry I: Lecture (3)
CHEM 221B. Organic Chemistry I: Laboratory (1)
CHEM 222A. Organic Chemistry II: Lecture (3)
CHEM 222B. Organic Chemistry II: Laboratory (1)
CHEM 223A. Organic Chemistry III: Lecture (3)
CHEM 223B. Organic Chemistry III: Laboratory (1)
CHEM 421. Intermediate Organic Chemistry (5)
4. CHEM 455. Physical Chemistry I (6)
 5. CHEM 456. Physical Chemistry II (6)
 6. CHEM 475. Inorganic Chemistry (6)
 7. CHEM 590. Chemistry Seminar (1) for a total of (2)
 8. Five additional upper-division units in chemistry.

B.A. IN CHEMISTRY - BIOCHEMISTRY OPTION

Requirements (101 to 108 units)

Total units required for graduation: 180

Requirements for the B.A. in Chemistry - Biochemistry Option:

Lower-division requirements (69-71 units)

- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- CHEM 245. Modern Quantitative Analysis (5)
- MATH 211. Basic Concepts of Calculus (4)
- MATH 212. Calculus II (4)
- MATH 213. Calculus III (4)
- One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B for at least 12 quarter units). CSUSB physics sequences that satisfy this requirement are:

Sequence A:

- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

Sequence B:

- PHYS 221. General Physics I (5)
 - PHYS 222. General Physics II (5)
 - PHYS 223. General Physics III (5)
- BIOL 200. Biology of the Cell (5)
 - BIOL 201. Biology of Organisms (5)
 - BIOL 202. Biology of Populations (5)

11. Organic Chemistry

A minimum of 12 units chosen from:

- CHEM 221A. Organic Chemistry I: Lecture (3)
- CHEM 221B. Organic Chemistry I: Laboratory (1)
- CHEM 222A. Organic Chemistry II: Lecture (3)
- CHEM 222B. Organic Chemistry II: Laboratory (1)
- CHEM 223A. Organic Chemistry III: Lecture (3)
- CHEM 223B. Organic Chemistry III: Laboratory (1)

Note: Organic Chemistry requirement may be met by taking CHEM 321, 322 and 323.

Upper-division requirements (32-37 units)

- CHEM 436. Biochemistry I (5)
- CHEM 437. Biochemistry II (5)
- CHEM 439. Separation Techniques in Biochemistry (2)
- A minimum of 10 units chosen from Group A or B below:
 - Group A:**
 - CHEM 451. Physical Chemistry for Biochemists I (5)
 - CHEM 452. Physical Chemistry for Biochemists II (5)
 - Group B:**
 - CHEM 455. Physical Chemistry I (6)
 - CHEM 456. Physical Chemistry II (6)
- One course chosen from:
 - CHEM 470. Bioinorganic Chemistry (3)
 - CHEM 475. Inorganic Chemistry (6)
- CHEM 590. Chemistry Seminar (1) for a total of (2)
- BIOL 300. Cell Physiology (5)

B.S. IN CHEMISTRY - ACS CERTIFIED OPTION

Requirements (111 units)

Total units required for graduation: 186

Requirements for the B.S. in Chemistry - ACS Certified Option:

Lower-division requirements (53 units)

- BIOL 200. Biology of the Cell (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- CHEM 245. Modern Quantitative Analysis (5)
- MATH 211. Basic Concepts of Calculus (4)
- MATH 212. Calculus II (4)
- MATH 213. Calculus III (4)
- MATH 251. Multivariable Calculus I (4)
- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)

Upper-division requirements (54 units)

- CHEM 321. Principles of Organic Chemistry I (5)
 - CHEM 322. Principles of Organic Chemistry II (5)
 - CHEM 323. Principles of Organic Chemistry III (5)
- Note:** Subject to departmental approval the organic chemistry requirement may be met with the following:
- CHEM 221A. Organic Chemistry I: Lecture (3)
 - CHEM 221B. Organic Chemistry I: Laboratory (1)
 - CHEM 222A. Organic Chemistry II: Lecture (3)
 - CHEM 222B. Organic Chemistry II: Laboratory (1)
 - CHEM 223A. Organic Chemistry III: Lecture (3)
 - CHEM 223B. Organic Chemistry III: Laboratory (1)
 - CHEM 421. Intermediate Organic Chemistry (5)
- CHEM 436. Biochemistry I (5)
 - CHEM 455. Physical Chemistry I (6)
 - CHEM 456. Physical Chemistry II (6)
 - CHEM 475. Inorganic Chemistry (6)
 - CHEM 545. Advanced Analytical Chemistry (6)
 - CHEM 576. Advanced Inorganic Chemistry (4)
 - CHEM 590. Chemistry Seminar (1) for a total of (2)
 - Four additional upper-division units in chemistry.

Additional Requirements (4 units)

- Applied mathematics
 - Four units chosen from:
 - MATH 252. Multivariable Calculus II (4)
 - MATH 270. Elementary Differential Equations (4)
 - MATH 331. Linear Algebra (4)
- Comprehensive examination
 - Successful completion of a comprehensive examination covering the major field of study to be taken during the senior year.

B.S. IN CHEMISTRY - BIOCHEMISTRY OPTION

Requirements (108 to 117 units)

Total units required for graduation: 186

Requirements for the B.S. in Chemistry - Biochemistry Option:

Lower-division requirements (57 to 59 units)

- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- CHEM 245. Modern Quantitative Analysis (5)
- MATH 211. Basic Concepts of Calculus (4)
- MATH 212. Calculus II (4)
- MATH 213. Calculus III (4)
- One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B) for at least 12 quarter units. CSUSB physics sequences that satisfy this requirement are:

Sequence A:

 - PHYS 121. Basic Concepts of Physics I (5)
 - PHYS 122. Basic Concepts of Physics II (4)
 - PHYS 123. Basic Concepts of Physics III (4)

Sequence B:

 - PHYS 221. General Physics I (5)
 - PHYS 222. General Physics II (5)
 - PHYS 223. General Physics III (5)
- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)

Upper-division requirements (51-58 units)

- CHEM 321. Principles of Organic Chemistry I (5)
- CHEM 322. Principles of Organic Chemistry II (5)
- CHEM 323. Principles of Organic Chemistry III (5)

Note: Subject to departmental approval the organic chemistry requirement may be met with the following:

 - CHEM 221A. Organic Chemistry I: Lecture (3)
 - CHEM 221B. Organic Chemistry I: Laboratory (1)
 - CHEM 222A. Organic Chemistry II: Lecture (3)
 - CHEM 222B. Organic Chemistry II: Laboratory (1)
 - CHEM 223A. Organic Chemistry III: Lecture (3)
 - CHEM 223B. Organic Chemistry III: Laboratory (1)
 - CHEM 421. Intermediate Organic Chemistry (5)
- CHEM 436. Biochemistry I (5)
- CHEM 437. Biochemistry II (5)
- CHEM 439. Separation Techniques in Biochemistry (2)
- A minimum of 10 units, choose Group A or B below:

Group A:

 - CHEM 451. Physical Chemistry for Biochemists I (5)
 - CHEM 452. Physical Chemistry for Biochemists II (5)

Group B:

 - CHEM 455. Physical Chemistry I (6)
 - CHEM 456. Physical Chemistry II (6)

- One course chosen from:
 - CHEM 470. Bioinorganic Chemistry (3)
 - CHEM 475. Inorganic Chemistry (6)
- CHEM 590. Chemistry Seminar (1) for a total of (2)
- BIOL 300. Cell Physiology (5)
- One course chosen from:
 - BIOL 320. Microorganisms (6)
 - BIOL 400. Molecular Biology (6)
 - BIOL 421. Genetics (4)
 - BIOL 424. Comparative Animal Physiology (6)
 - BIOL 431. Comparative Plant Physiology (6)
 - BIOL 440. Principles of Development (5)
 - BIOL 480. Introduction to Neurobiology (4)
- Successful completion of a comprehensive examination covering the major field of study to be taken during the senior year.

TEACHING CREDENTIAL PREPARATION PROGRAM

Teaching Credential Preparation Program Subject Matter Preparation Program in Science: Chemistry

Students wishing to be recommended for a single subject teaching credential in science with a concentration in chemistry must, either as part of the requirements for the Bachelor of Arts or Bachelor of Sciences in Chemistry or as electives in addition to the requirements for the degree, take the following courses:

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- GEOL 101. Physical Geology (5)
- GEOL 250. Historical Geology (5)
- GEOL 306. Oceans and Atmospheres for the Science Teacher (3)
- NSCI 300. Science and Technology (4)
- PHYS 103. Descriptive Astronomy (5)

In addition, certain prerequisites and professional education courses are required. For information about admission to the teacher education program, education courses required or the specific requirements of the single subject teaching credential in science program, see [Page 161](#) or contact the Teacher Education Office in the College of Education.

MINOR IN CHEMISTRY

Requirements (64 to 69 units)

Requirements for a minor in Chemistry:

- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- CHEM 245. Modern Quantitative Analysis (5)
- A minimum of twelve units, choose Group A or B below:

Group A:

 - CHEM 221A. Organic Chemistry I: Lecture (3)
 - CHEM 221B. Organic Chemistry I: Laboratory (1)
 - CHEM 222A. Organic Chemistry II: Lecture (3)

CHEM 222B. Organic Chemistry II: Laboratory (1)

CHEM 223A. Organic Chemistry III: Lecture (3)

CHEM 223B. Organic Chemistry III: Laboratory (1)

Group B:

CHEM 321. Principles of Organic Chemistry I (5)

CHEM 322. Principles of Organic Chemistry II (5)

CHEM 323. Principles of Organic Chemistry III (5)

5. MATH 211. Basic Concepts of Calculus (4)

6. MATH 212. Calculus II (4)

7. MATH 213. Calculus III (4)

8. A minimum of thirteen units, choose Group A or B below:

Group A:

PHYS 121. Basic Concepts of Physics I (5)

PHYS 122. Basic Concepts of Physics II (4)

PHYS 123. Basic Concepts of Physics III (4)

Group B:

PHYS 221. General Physics I (5)

PHYS 222. General Physics II (5)

PHYS 223. General Physics III (5)

9. Ten additional upper-division units in chemistry.

DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in chemistry after meeting the following requirements:

1. At least a 3.5 average in all chemistry course work taken at the university with a minimum being five chemistry courses;
2. At least a 3.0 ("B") average on the comprehensive examinations;
3. An "A" (4.0) in CHEM 595. Independent Study or another demonstration of ability to do independent work in chemistry.

COURSE OFFERINGS IN CHEMISTRY (CHEM)

Lower Division

100. Chemistry in the Modern World (FWS)

Examination of chemistry, its use by modern man and its value to contemporary society. Designed primarily for students who desire a broad overview of chemistry but have no high school background in the subject. Four hours lecture and three hours laboratory. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B.3) (5 units)

105. Chemicals in Our Environment (FWS)

Examination of a current issue related to chemicals in our environment with focus on chemical principles and the interplay between chemical technology and society. Lecture only. (GE=B.4) (2 units)

205. Fundamentals of Chemistry I: General Chemistry (FS)

Basic introduction to the concepts of chemistry, including the composition of matter and physical and chemical changes. Designed primarily for the student with little or no chemistry background who plans to take additional chemistry or other science courses. Four hours lecture and three hours laboratory. Prerequisites: one year of high school algebra or equivalent and satisfactory score on the Entry Level Mathematics examination. (GE=B.3) (5 units)

206. Fundamentals of Chemistry II: Organic Chemistry (FW)

Introduction to the chemistry of organic compounds. Four hours lecture and three hours laboratory. Prerequisite: CHEM 205 or 215. (5 units)

207. Fundamentals of Chemistry III: Biochemistry (WS)

Introduction to the principles of modern biological chemistry and to organic compounds of biological interest. Four hours lecture and three hours laboratory. Prerequisite: CHEM 206. (5 units)

215. General Chemistry I: Atomic Structure and Chemical Bonding (FW)

Stoichiometry, atomic and molecular structure, chemical bonding, states of matter and solutions. Designed primarily for the student majoring in the biological or physical sciences. Four hours lecture and six hours laboratory. Prerequisites: one year of high school chemistry and three years of high school mathematics, or their equivalents; satisfactory score on the Entry Level Mathematics examination. (GE=B.3) (CHEM 215+216=CAN CHEM SEQ A) (6 units)

216. General Chemistry II: Principles of Chemical Reactions (WS)

Chemical kinetics and equilibrium, thermodynamics, redox reactions and electrochemistry, and topics in inorganic, organic, biological and environmental chemistry. Four hours lecture and six hours laboratory. Prerequisite: CHEM 215 with a grade of "C-" or better. (CHEM 215+216=CAN CHEM SEQ A) (6 units)

221. Organic Chemistry I (F)

- A. Lecture. The chemistry of carbon compounds, including modern concepts of structure, mechanism, and reactivity. Emphasis is placed on compounds and reactions of biological interest; and includes an introduction to selected topics in biochemistry. Taking the lecture sequence (CHEM 221A, 222A, and 223A) without the lab sequence (CHEM 221B, 222B, and 223B) is inappropriate for premedical, pre-dental and other pre-health professions students and for all majors and minors except the B.A. major in biology. Chemistry majors (except the B.A. in Chemistry, Biochemistry Option) are expected to take the Principles of Organic Chemistry sequence (CHEM 321, 322 and 323). Lecture only. Prerequisite: CHEM 215. (3 units)
- B. Laboratory. An introduction to experimental techniques in organic chemistry. Three hours of laboratory. Prerequisite: CHEM 215. Prerequisite or corequisite: CHEM 221A. (1 unit)

222. Organic Chemistry II (W)

- A. Lecture. Continuation of CHEM 221A. Three hours lecture. Prerequisite: CHEM 221A. (3 units)
- B. Laboratory. Continuation of CHEM 221B. Three hours laboratory. Prerequisite: CHEM 221B. Prerequisite or corequisite: CHEM 222A. (1 unit)

223. Organic Chemistry III (S)

- A. Lecture. Continuation of CHEM 222A. Three hours lecture. Prerequisite: CHEM 222A or equivalent. (3 units)
- B. Laboratory. Continuation of CHEM 222B. Three hours laboratory. Prerequisite: CHEM 222B. Prerequisite or corequisite: CHEM 223A. (1 unit)

245. Modern Quantitative Analysis (S)

Gravimetric and volumetric analysis, chemical equilibria, modern instrumental methods and radioanalytical techniques. Three hours lecture and six hours laboratory. Prerequisite: CHEM 216. (CHEM 245=CAN CHEM 12) (5 units)

295. Special Projects in Chemistry (FWS)

Individual investigation, research, study or survey of selected problems. May be repeated for credit as topics change. Prerequisite: consent of instructor. (Credit to be arranged: 1 or 2 units)

Upper Division**301. Service Learning in Chemistry (FWS)**

Supervised activities in chemistry or chemical education providing service to campus or community constituents. At least 30 hours required for credit. May be repeated for credit. May not be counted for credit for the chemistry major. Graded credit/no credit. Prerequisites: consent of instructor and pertinent course work. (1 unit)

304. Chemistry in the Classroom (FWS)

Basic concepts of chemistry as related to the elementary and middle school classroom. Concepts include elements, compounds and mixtures, states of matter, physical and chemical changes, transformations of matter, acids and bases, chemical identification, energetics and kinetics. May not be counted as upper-division elective units for a chemistry degree. One hour lecture and three hours laboratory. Prerequisite: one college-level course in earth science or physics. (2 units)

305. Demonstration Laboratory in Chemistry

A demonstration laboratory exploring the basic principles of chemistry through individual student demonstrations. May not be counted as upper-division elective units for the B.S. in Chemistry, ACS Certified Option. Three hours laboratory. Prerequisite or corequisite: CHEM 304. (1 unit)

321. Principles of Organic Chemistry I (F)

Detailed study of organic molecules and their structures, reaction mechanisms, stereochemistry and synthesis. Three hours lecture and six hours laboratory. Prerequisite: CHEM 216. (5 units)

322. Principles of Organic Chemistry II (W)

Continuation of CHEM 321. Three hours lecture and six hours laboratory. Prerequisite: CHEM 321. (5 units)

323. Principles of Organic Chemistry III (S)

Continuation of CHEM 322, including special topics in heterocyclic compounds, fats, carbohydrates, and amino acids and proteins. Three hours lecture and six hours laboratory. Prerequisite: CHEM 322. (5 units)

392. Scientific Glassblowing (W)

Principles and skills in the construction, modification and repair of scientific glass apparatus. May not be counted as upper-division elective units for the B.S. in Chemistry degree, ACS Certified Option. Prerequisite: consent of instructor. (2 units)

421. Intermediate Organic Chemistry (S-alt yr)

Organic reaction mechanisms, quantitative identification of organic compounds, and instrumental organic analysis. May not be counted as upper-division elective units for a chemistry degree. Three hours lecture and six hours laboratory. Prerequisite: CHEM 223 or 323. (5 units)

436. Biochemistry I (FS)

Chemistry of proteins, carbohydrates, lipids, and other classes of biomolecules; the kinetics, mechanism and structure of enzymes; the principles of bioenergetics; and the basic principles of metabolism. Four hours lecture and three hours laboratory. Prerequisites: BIOL 200 and CHEM 216, 223 or 323. (5 units)

437. Biochemistry II (W)

Biochemical processes that yield and utilize energy: metabolism of carbohydrates, lipids, amino acids, purines and nucleic acid biosynthesis. Four hours lecture and three hours laboratory. Prerequisite: CHEM 436. (5 units)

439. Separation Techniques in Biochemistry (S)

Laboratory experience in techniques commonly employed in the separation of proteins and nucleic acids. Six hours laboratory. Prerequisite: CHEM 436. (2 units)

451. Physical Chemistry for Biochemists I

Thermodynamics of single and multi-component systems, properties of non-electrolyte and electrolyte solutions with an emphasis on biomolecular systems. May not be counted for upper-division elective units for a B.A. or B.S. in Chemistry, Chemistry Option. Four hours lecture and three hours laboratory. Prerequisites: CHEM 216 and 436; CHEM 223 or 323; MATH 213; and PHYS 123 or 223. Recommended: CHEM 436. (5 units)

452. Physical Chemistry for Biochemists II

Phase equilibria, transport properties, electron transfer reactions, and reaction kinetics, with an emphasis on biomolecular systems. Quantum mechanical and physical principles as applied to molecular structure and spectroscopy. May not be counted for upper-division elective units for a B.A. or B.S. in Chemistry, Chemistry Option. Four hours lecture and three hours laboratory. Prerequisite: CHEM 451. (5 units)

455. Physical Chemistry I (F)

Thermodynamics and the properties of solutions. Four hours lecture and six hours laboratory. Prerequisites: CHEM 216, MATH 202 or 213, and PHYS 123 or 223. Recommended: MATH 251. (6 units)

456. Physical Chemistry II (W)

Phase equilibria, electrochemistry, transport properties, reaction rates and mechanisms, and quantum mechanics. Four hours lecture and six hours laboratory. Prerequisite: CHEM 455. (6 units)

470. Bioinorganic Chemistry

The role of metals in biological systems. Survey of the types of metalloproteins and their biological functions. Detailed case studies of selected metalloproteins. Design and synthesis of models as a means of corroborating active-site structures. Course will also cover coordination chemistry and physical techniques used to probe active sites. Prerequisites: CHEM 223 or 323 and 216. Recommended: CHEM 436. (3 units)

475. Inorganic Chemistry (S)

Inorganic compounds and reactions. Special emphasis on group theory, structure, kinetics, and thermodynamic principles. Four hours lecture and six hours laboratory. Prerequisite or corequisite: CHEM 456. (6 units)

500. Topics in Chemistry

Lecture course on an advanced chemistry topic such as: bio-physical chemistry, history of chemistry, literature of chemistry, natural products chemistry, polymer chemistry, synthetic organic chemistry, theoretical organic chemistry or quantum mechanics. May be repeated for credit as topics change. Lecture only. Prerequisite: consent of instructor. (2 units)

501. Advanced Laboratory Techniques

Advanced laboratory course on a subject such as organic or inorganic chemistry. May be repeated for credit for up to six (6) units total. Final written report required. Prerequisites: the basic course covering the subject of the Advanced Laboratory Techniques course and consent of instructor. (Credit to be arranged: 1 to 2 units)

521. Advanced Organic Chemistry

Advanced topics in synthetic and mechanistic organic chemistry with emphasis on recent developments and techniques in organic chemistry. Lecture only. Prerequisite: CHEM 323 or 421. (4 units)

545. Advanced Analytical Chemistry (S-alt yr)

Principles and techniques of modern instrumental analysis, including spectrophotometry, spectroscopy, chromatography, X-ray analysis, mass spectrometry and potentiometry. Four hours lecture and six hours laboratory. Prerequisites: CHEM 223 or 323, 245 and 456. (6 units)

575. Internship in Chemistry (FWS)

Supervised work and study in applied chemistry in an off-campus setting. Final written report required. Graded credit/no credit. Prerequisites: course work appropriate to the specific internship, junior standing and consent of department. (4 units)

576. Advanced Inorganic Chemistry (F-alt yr)

Current developments in inorganic chemistry, including coordination chemistry, non-metals and metalloids. Lecture only. Prerequisite: CHEM 475. (4 units)

590. Chemistry Seminar (FS)

Topics of current chemical interest, presented by students, faculty and guest speakers. To be taken twice for credit toward the major requirements for graduation. Lecture only. Prerequisites: twelve upper-division units in chemistry, and NSCI 306 or equivalent. (1 unit)

595. Independent Study (FWS)

Laboratory and/or library research conducted under the direction of a faculty member. Final written report required. A total of six units in CHEM 595 may be applied toward the major. Prerequisites: a minimum overall grade point average of 2.5, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

COMMUNICATION

Department of Communication Studies

University Hall, Room 018
880-5815

Bachelor of Arts

Communication
with concentrations in
Human Communication
Intercultural Communication
Mass Communication
Public Argumentation and Rhetoric
Public Relations

Teaching Credential

English with a Concentration in Communication Studies

Minor

Communication
Intercultural Communication
Public Relations

Certificate Program

Communication Skills
Conflict Management
(Requirements for this certificate can be found on [Page 392.](#))

Master of Arts

Communication Studies
(Degree requirements can be found on [Page 390.](#))
Interdisciplinary Studies: E-Marketing Communication and New Media
(Degree requirements can be found on [Page 475.](#))

FACULTY: Mo Bahk, Rosalind Bresnahan, Reuyling Chuang, Risa Dickson (chair), Mary Fong, Vernon Harper, Brian Heisterkamp, Beverly Hendricks, Heather Hundley, Fred Jandt, Kevin Lamude, Robin Larsen, Craig Monroe, Scott Rodriguez, Donna Simmons, Stacey Sowards

Defined as "the creation, transmission and evaluation of messages," communication is a multifaceted discipline combining both academic and professional interests.

Through courses in communication, students learn to describe, interpret and evaluate the communication processes as they occur within and among individuals, groups, organizations and societies. Students explore problems in diverse media (platform, conference, print, radio, television, film, computer mediated communication), settings (family, industry, professions, government) and contexts (racial, cultural, international).

The educational objectives established for the degree program in communication are the following terminal competencies: understand relationships between symbols and culture, discover information from its sources, describe characteristics of potential audiences, translate information into an audience's conceptual framework, transmit information/messages

clearly in media appropriate to the audience, evaluate messages and their effects on audiences and appreciate the ethics of communication.

By the mid-1980s more than half of the country's gross national product was spent on information products and services. Communication is the means by which information is shared. The growth of communication studies reflects, in part, a growing technology permitting spoken language to move from the forum of Greece to the surface of the moon and around the planet in mere moments.

Communication majors enter careers in business and industry, government and social services, education, media and the professions in positions of public relations, marketing, teaching, sales, media production, writing, personnel, on-air media, advertising and training. Men and women across the ages have testified how the study of communication aided their personal and professional lives, whether they be persuaders, conciliators, diplomats, teachers and scholars, or researchers.

In today's world of changing and integrated communications technology, the department's curriculum reflects the belief that communication should be studied as a single discipline integrated into the liberal arts. Practicums and internships support but do not substitute for a sound theoretical base. Participants in department-sponsored journalism and radio laboratories are required to register in COMM 243. Communication Practicum; participants in intercollegiate-forensics activities are required to register in COMM 382. Intercollegiate Forensics. Internships are available on and off campus in the full range of communication professions.

B.A. IN COMMUNICATION

Requirements (77 units)

Total units required for graduation: 180

Requirements for the B.A. in Communication:

Core Courses (25 units)

1. COMM 200. Introduction to Communication Studies (4)
2. COMM 304. Intercultural Communication (4)
3. COMM 306. Communication Perspectives (4)
4. COMM 309. Computer Mediated Communication (4)
5. COMM 400. Communication Research Methodologies (4)
6. COMM 501. Ethical Aspects of Communication (4)
7. COMM 599. Senior Project (1)

Communication Practica (8 units)

1. Students must choose eight units from at least two of the following:
 - COMM 243A. Communication Practicum: Journalism and Photojournalism (3)
 - COMM 243B. Communication Practicum: Radio (3)
 - COMM 243D. Communication Practicum: Public Relations (3)
 - COMM 382. Intercollegiate Forensics (3)
 - COMM 444A. Advanced Communication Practicum: Television Production (3)
 - COMM 444B. Advanced Communication Practicum: Research (3)

COMM 444D. Advanced Communication Practicum:
Mentoring (3)

COMM 591. Internship/Externship (2-5)

Electives (16 units)

- Sixteen units in addition to those chosen in the concentration, of which 12 must be upper-division, selected in consultation with the advisor and, in the case of non-departmental electives, the approval of the chair. COMM 120 and 180 may not be applied toward the major.

Concentration (28 units)

A minimum of 28 units from one of the following concentrations below to be chosen in consultation with an advisor.

Human Communication Concentration

- Twenty-eight units chosen from:
 - COMM 221. Small Group Communication (4)
 - COMM 225. Fundamentals of Interpersonal Communication (4)
 - COMM 311. Business and Professional Communication (4)
 - COMM 312. Persuasion (4)
 - COMM 331. Communication for Training Programs (4)
 - COMM 341. Public Relations Theory and Principles (4)
 - COMM 343. Public Affairs Reporting (4)
 - COMM 344. Public Relations Communication (4)
 - COMM 403. Interpersonal Relations (4)
 - COMM 421. Organizational Communication (4)
 - COMM 422. Communication and Conflict (4)
 - COMM 431. Classroom Communication (4)
 - COMM 441. Interviewing (4)
 - COMM 442. Public Relations Campaigns (4)
 - COMM 502. Communication Law and Policy (4)
 - COMM 522. Mediation Theory and Practice (4)
 - COMM 585. Topics in Human Communication (4)
 - COMM 595. Independent Study (2-5) for a maximum of (5)

Intercultural Communication Concentration

- Twenty-eight units chosen from:
 - COMM 302. Communication, Language and Culture (4)
 - COMM 401. Gender, Race and Media (4)
 - COMM 402. Ethnography of Communication (4)
 - COMM 422. Communication and Conflict (4)
 - COMM 471. International Communication (4)
 - COMM 522. Mediation Theory and Practice (4)
 - COMM 580. Culture and Ethnicity in Language (4)
 - COMM 581. Contemporary Theories of Rhetoric (4)
 - COMM 588. Topics in Intercultural Communication (4)
 - COMM 593. Communication Approaches to Area Studies (4)
 - COMM 595. Independent Study (2-5) for a maximum of (5)

Mass Communication Concentration

Core (12 units)

- COMM 240. Writing for Media (4)
- COMM 320. Media History and Institutions (4)
- COMM 321. Media and Culture (4)

Electives (16 units)

- Sixteen units chosen from:
 - COMM 245. Introduction to TV and Video Production (5)
 - COMM 311. Business and Professional Communication (4)
 - COMM 341. Public Relations Theory and Principles (4)
 - COMM 342. Publication Design and Makeup (4)
 - COMM 343. Public Affairs Reporting (4)
 - COMM 344. Public Relations Communication (4)
 - COMM 345. Advanced TV and Video Production (5)
 - COMM 346. TV and Video Field Production (5)
 - COMM 352. Broadcast Management (4)
 - COMM 380. Visual Communication (4)
 - COMM 381. The Development of Motion Pictures (4)
 - COMM 387. Radio Production (4)
 - COMM 401. Gender, Race and Media (4)
 - COMM 415. Advertising as Social Communication (4)
 - COMM 442. Public Relations Campaigns (4)
 - COMM 450. Broadcast Research and Audience Analysis (4)
 - COMM 471. International Communication (4)
 - COMM 481. History and Development of Documentary (4)
 - COMM 502. Communication Law and Policy (4)
 - COMM 587. Topics in Mass Communication (4)
 - COMM 595. Independent Study (2-5) for a maximum of (5)

Public Argumentation and Rhetoric Concentration

- Twenty-eight units chosen from:
 - COMM 204. Introduction to Critical Communication Studies (4)
 - COMM 302. Communication, Language and Culture (4)
 - COMM 305. Critical Approaches to Communication (4)
 - COMM 308. Argumentation (4)
 - COMM 312. Persuasion (4)
 - COMM 341. Public Relations Theory and Principles (4)
 - COMM 344. Public Relations Communication (4)
 - COMM 401. Gender, Race, and Media (4)
 - COMM 411. Women and Communication (4)
 - COMM 442. Public Relations Campaigns (4)
 - COMM 502. Communication Law and Policy (4)
 - COMM 581. Contemporary Theories of Rhetoric (4)
 - COMM 584. Topics in Critical Communication (4)
 - COMM 595. Independent Study (2-5) for a maximum of (5)

Public Relations Concentration

- COMM 240. Writing for Media (4)
- COMM 341. Public Relations Theory and Principles (4)
- COMM 344. Public Relations Communication (4)
- COMM 442. Public Relations Campaigns (4)
- COMM 542. Issue Management and Crisis Communication (4)
- Eight units chosen from:
 - COMM 243D. Communication Practicum: Public Relations (3)
 - COMM 311. Business and Professional Communication (4)
 - COMM 312. Persuasion (4)

- COMM 342. Publication Design and Makeup (4)
- COMM 380. Visual Communication (4)
- COMM 415. Advertising as Social Communication (4)
- COMM 421. Organizational Communication (4)
- COMM 450. Broadcast Research and Audience Analysis (4)
- COMM 502. Communication Law and Policy (4)
- COMM 520. Integrated Marketing Communication (4)
- COMM 591. Internship/Externship in Communication (2-5) for a maximum of (5)
- PA 307. Public Relations in the Public Sector (4)

Individualized Concentration

Students may propose a unique, individualized 28-unit concentration if the proposed concentration has curricular integrity and if it fulfills objectives that cannot be met through one of the concentrations listed above. Proposals, which require departmental approval, must be submitted no later than the student's junior year. Only 12 units of course work completed prior to such approval can be applied toward an individualized concentration.

TEACHING CREDENTIAL PROGRAM

Teaching Credential Program - English with a Concentration in Communication Studies

In order to be recommended for the teaching credential in English with a concentration in Communication Studies (English subject matter program), students must complete the courses listed in the core of the B.A. in English (lower-division requirements 1-3, and upper-division requirements 1-7 found on [Page 174](#)) and complete the following:

1. Four units chosen from:
 - CSCI 127. Introduction to Computer Technology for Educators (4)
 - COMM 245. Introduction to TV and Video Production (4)
2. Four units chosen from:
 - ENG 306. Expository Writing (4)
 - HUM 306. Expository Writing for the Humanities (4)
3. Four units chosen from:
 - ENG 420. Pedagogical Grammar (4)
 - HUM 312. Theories of Language Acquisition and Learning (4)
4. ENG 510. English in the Secondary Classroom (4)
5. COMM 304. Intercultural Communication (4)
6. COMM 382. Intercollegiate Forensics (3)
7. COMM 501. Legal and Ethical Communication (4)
8. Four units chosen from:
 - COMM 305. Critical Approaches to Communication (4)
 - COMM 308. Argumentation (4)
 - COMM 312. Persuasion (4)
 - COMM 401. Gender, Race and Media (4)
 - COMM 411. Women and Communication (4)
9. Four units chosen from:
 - COMM 306. Communication Perspectives (4)
 - COMM 403. Interpersonal Relations (4)
 - COMM 422. Communication and Conflict (4)

10. Four units chosen from:

- COMM 342. Publication Design and Makeup (4)
- COMM 344. Public Relations Communication (4)
- COMM 345. Advanced TV and Video Production (4)
- COMM 381. The Development of Motion Pictures (4)

Prior to student teaching, students must demonstrate subject matter competence as assessed by the Department of English. For information about the professional education component, prerequisites for and admission to the teacher education program, or specific requirements for the single subject credential program, see [Page 154](#) or contact the Center for Assisting Students in Education (C.A.S.E.).

Note: Completing the requirements of the teaching credential in English with a concentration in Communication Studies does NOT in itself satisfy the requirements for the major in either communication or English.

MINOR IN COMMUNICATION

Requirements (28 units)

Requirements for a minor in Communication:

Lower-division requirement (4 units)

1. COMM 200. Introduction to Communication Studies (4)

Upper-division requirements (8 units)

1. COMM 304. Intercultural Communication (4)
2. COMM 501. Ethical Aspects of Communication (4)

Electives (16 units)

1. Sixteen additional units in communication, at least eight of which must be upper-division.

MINOR IN INTERCULTURAL COMMUNICATION

Requirements (28 units)

Requirements for a minor in Intercultural Communication:

Upper-division requirements (16 units)

1. COMM 302. Communication, Language and Culture (4)
2. COMM 304. Intercultural Communication (4)
3. COMM 422. Communication and Conflict (4)
4. COMM 471. International Communication (4)

Electives (12 units)

1. Twelve units chosen from:

- COMM 401. Gender, Race and Media (4)
- COMM 402. Ethnography of Communication (4)
- COMM 522. Mediation Theory and Practice (4)
- COMM 580. Culture and Ethnicity in Language (4)
- COMM 581. Contemporary Theories of Rhetoric (4)
- COMM 588. Topics in Intercultural Communication (4)
- COMM 593. Communication Approaches to Area Studies (4)
- COMM 595. Independent Study (2-5) for a maximum of (5)

MINOR IN PUBLIC RELATIONS

Requirements (28 units)

Requirements for a minor in Public Relations:

Lower-division requirements (4 units)

1. COMM 240. Writing for Media (4)

Upper-division requirements (16 units)

1. COMM 341. Public Relations Theory and Principles (4)
2. COMM 344. Public Relations Communication (4)
3. COMM 442. Public Relations Campaigns (4)
4. COMM 542. Issue Management and Crisis Communication (4)

Electives (8 units)

1. Eight units chosen from:
 - COMM 243D. Communication Practicum: Public Relations (3)
 - COMM 311. Business and Professional Communication (4)
 - COMM 312. Persuasion (4)
 - COMM 421. Organizational Communication (4)
 - COMM 591. Internship/Externship in Communication (2-5) for a maximum of (5)
 - PA 307. Public Relations in the Public Sector (4)

DEPARTMENTAL HONORS

Students majoring in communication are eligible to receive honors in communication at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall grade point average of 3.5 or better;
4. An independent study course that culminates in a research presentation to the department;
5. Recommendation for departmental honors by the Communication Studies faculty.

Students interested in this recognition must file a formal application with the department at least three quarters prior to graduation.

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Communication Skills

Certificate Requirements (32 units)

Required course (4 units)

1. COMM 501. Legal and Ethical Aspects of Communication (4)

Electives (28 units)

1. Public speaking
Four units chosen from:
 - COMM 120. Oral Communication (4)
 - COMM 180. Critical Thinking Through Argumentation (4)
 - COMM 311. Business and Professional Communication (4)
2. Intercultural communication
Four units chosen from:
 - COMM 304. Intercultural Communication (4)
 - COMM 411. Women and Communication (4)
3. Interpersonal communication
Four units chosen from:
 - COMM 221. Small Group Communication (4)
 - COMM 225. Fundamentals of Interpersonal Communication (4)
 - COMM 331. Communication for Training Programs (4)
 - COMM 403. Interpersonal Relations (4)
 - COMM 441. Interviewing (4)
4. Public relations
Four units chosen from:
 - COMM 341. Public Relations Theory and Principles (4)
 - PA 307. Public Relations in the Public Sector (4)
5. Journalism
Eight units chosen from:
 - COMM 240. Writing for Media (4)
 - COMM 342. Publication Design and Makeup (4)
 - COMM 343. Public Affairs Reporting (4)
6. Media
Two courses for a minimum of four units chosen from:
 - ART 390. Beginning Photography (5)
 - COMM 381. The Development of Motion Pictures (4)
 - MUS 266. Introduction to Computer and Electronic Music (4)
 - MUS 267. Introduction to Studio Recording Techniques (4)
 - MUS 519. Audio Production (2)
 - TA 253. Voice for the Stage (2)

COURSE OFFERINGS IN COMMUNICATION (COMM)

Lower Division

120. Oral Communication

Introduction to effective speech communication with emphasis on informative and persuasive public speaking and presentation skills. (GE=A.2) (COMM 120=CAN SPCH 4) (4 units)

180. Critical Thinking Through Argumentation

Principles of oral argumentation and forensics: evidence, methods of logical analysis, reasoned discourse demonstrated through argumentative speeches and debates. (GE=A.4) (COMM 180=CAN SPCH 6) (4 units)

200. Introduction to Communication Studies

Descriptive overview of how humans communicate in various contexts within the areas of public argumentation and rhetoric, human communication, and mass communication. Includes introduction to communication processes, theories, and research methodologies. (4 units)

204. Introduction to Critical Communication Studies

Survey of the history and study of rhetoric as it contributes to a critical understanding of the role of communication in society. (4 units)

221. Small Group Communication

Theories of communication applied to small group situations emphasizing decision-making processes. (COMM 221=CAN SPCH 10) (4 units)

225. Fundamentals of Interpersonal Communication

A skills development course designed to facilitate student's acquisition of basic face-to-face communication competencies such as building and maintaining communication climates, listening, perception, self-disclosure, and verbal and non-verbal communication. (COMM 225=CAN SPCH 8) (4 units)

240. Writing for Media

Development of basic writing skills and practices appropriate for print and electronic media, including news, feature story, and documentary writing skills. Three hours lecture and two hours laboratory. Prerequisites: ENG 101 or equivalent and word processing ability. (COMM 240=CAN JOUR 2) (4 units)

243. Communication Practicum

Practical application of communication skills. COMM 243A, 243B, 243D, 382, 444A, 444B, and 444D may each be taken twice for credit, but no more than nine total units from any combination of these courses may be applied toward the major. Graded credit/no credit.

- A. Journalism and Photojournalism (3 units)
- B. Radio (3 units)
- D. Public Relations (3 units)

245. Introduction to TV and Video Production

Introduction to equipment, theory and procedures used in studio production of television and video programming. Camera, VTR, switcher, lighting, audio character generation, and the roles of crew members will be examined. Basic principles of pictorial composition and aesthetics of the video medium for a variety of applications will also be introduced. Four hours lecture and two hours activity laboratory. (5 units)

Upper Division**302. Communication, Language and Culture**

Contemporary theories of language as they relate to the communication process, including the coding system of signs, symbols, and meanings of cultural groups. (4 units)

304. Intercultural Communication

Description and analysis of cultural and gender factors in communication such as perception, value systems, language codes and nonverbal communication. Overcoming the communication problems that can result when members of different cultures communicate. (GE=G.2) (4 units)

305. Critical Approaches to Communication

Contemporary approaches to media and rhetorical criticism, with emphasis on television, film and public discourse. (4 units)

306. Communication Perspectives

Traditional and contemporary approaches to communication theory, including an examination of the areas of rhetorical, human, and mediated communication. Prerequisite: COMM 200. (4 units)

308. Argumentation

Advanced principles of argumentation: perspectives, analysis and practice. Prerequisite: completion of General Education Critical Thinking requirement. (4 units)

309. Computer Mediated Communication

Examination of how computer technology, particularly the Internet, influences the creation, retrieval, and processing of information in a variety of communication contexts. Students will acquire the cognitive and technical skills required to become active, thoughtful communicators via computer mediated channels. Formerly COMM 509 and a topic under COMM 587. Prerequisite: CSCI 124 or equivalent recommended. (4 units)

311. Business and Professional Communication

Presentation skills and techniques used in sales, business, professional and technical fields for the communication of information. Special emphasis on technological resources for corporate communication. Prerequisite: COMM 120 or equivalent. (4 units)

312. Persuasion

Study and application of rhetorical, social-psychological and mass behavior principles. (4 units)

320. Media History and Institutions

A historical examination of media institutions prominent in contemporary culture. Particular attention paid to media industry development and policies and processes of media production, past and present. Prerequisite: COMM 200. (4 units)

321. Media and Culture

Analysis of media texts and products as they relate to issues of social impact, identity, representation and economics. Prerequisite: completion of or concurrent enrollment in COMM 320 or consent of instructor. (4 units)

331. Communication for Training Programs

Techniques and functions of training programs in professional and technical settings. (4 units)

341. Public Relations Theory and Principles

Introduction to the theoretical perspectives that form the foundation of public relations. Perspectives and principles of the public relations profession in multiple settings. Historical perspectives, current and future trends, and career opportunities explored. (4 units)

342. Publication Design and Makeup

Designing newspaper, magazine and online publications. Includes concept development, planning and composition, typography, infographics, mastheads, illustration, and desktop publishing. Ethical considerations discussed. Prerequisite: COMM 240. (4 units)

343. Public Affairs Reporting

Methods and procedures for reporting activities of both public and private sectors. Includes interpretive and investigative practice. Prerequisite: COMM 240. (4 units)

344. Public Relations Communication

Application of public relations theory and principles through the development of public relations communication production skills: message construction and delivery in written, verbal, and visual communication. Includes special events and other communication components used by public relations professionals. Prerequisites: COMM 240 and 341 or consent of instructor. (4 units)

345. Advanced TV and Video Production

Advanced techniques and aesthetics of television and video studio production, with emphasis on multicamera shooting and switcher effects. Introduction to video editing and post-production processes. Four hours lecture and three hours laboratory. Prerequisite: COMM 245 with a grade of "B" (3.0) or better. (5 units)

346. TV and Video Field Production

Instruction in the use of portable video equipment for use in field and remote production, as well as postproduction processes associated with remote production. Nonfiction applications and theory will be emphasized. Four hours lecture and three hours laboratory. Prerequisite: COMM 345 with a grade of "B" (3.0) or better. (5 units)

352. Broadcast Management

Management styles and responsibilities of radio and television owners, programmers and producers. Prerequisites: COMM 320, MGMT 302, or consent of instructor. (4 units)

380. Visual Communication

Introduction to the principles and theory of visual literacy essential to understanding the social, cultural and ethical layers of meaning in visual communication. Media and other images are examined in view of how they are constructed, processed and integrated with other forms of communication. (4 units)

381. The Development of Motion Pictures

Survey of the historical background, commercial development and social influences of motion pictures. Course follows the medium from earliest origins through the rise and decline of the studio system and influences of television with emphasis on key directors and styles of film communication. (4 units)

382. Intercollegiate Forensics

Preparation for and participation in intercollegiate debate and/or individual events. Additional hours of supervised practice and performance required. May be repeated for credit for a total of not more than six units. COMM 243A, 243B, 243D, 382, 444A, 444B, and 444D may each be taken twice for credit, but no more than 9 total units from any combination of these courses may be applied toward the major. Graded credit/no credit. (3 units)

387. Radio Production

Techniques and principles of recording, splicing, dubbing, and mixing sound for radio newscasts, commercials, public service announcements and promotional announcements. Prerequisite: COMM 243B or consent of instructor. (4 units)

399. Community Service Project

Credit for applying previously learned skills in the area of communication to academically related tasks in such agencies as governmental, social services, and educational institutions. May be repeated for a total of two units. Thirty hours of service per unit are required. Graded credit/no credit. Prerequisite: departmental approval of a written application submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 or 2 units)

400. Communication Research Methodologies

Study and application of basic historical, descriptive, critical and experimental research skills unique to communication. Data analysis. Includes ethical considerations of communication research. Formerly COMM 303. Prerequisites: COMM 200, 304 and 306. (4 units)

401. Gender, Race and Media

Critical and historical examination of images and representations of gender and race in the mass media. Course focuses primarily on film, television, advertising, and the press. (GE=G.2) (4 units)

402. Ethnography of Communication

Ethnographic frameworks and principles for conducting research on communication within and across cultural boundaries. Includes foci on case studies, interviewing and field work. Prerequisites: COMM 302 and 304 or equivalent or consent of instructor. (4 units)

403. Interpersonal Relations

An overview and examination of current concepts, issues and research in the study of human relationships. Primary focus on relational development, maintenance and disengagement in a variety of contexts. (4 units)

405. Advanced Study of Media Effects

History of research in understanding media effects on individuals and society. Prerequisite: COMM 400. (4 units)

411. Women and Communication

A critical examination of the impact of communication on women in three major areas: verbal and nonverbal behaviors, women as public speakers and the portrayal of women in the media. Formerly COMM 583B. (4 units)

415. Advertising as Social Communication

The critical and social theories of advertising and its political and economic roles in modern society. (4 units)

421. Organizational Communication

Study of current organizational communication theory and application to the management of communication within the organization. (4 units)

422. Communication and Conflict

Communication theories and models relevant to analyzing and understanding the causes, functions, styles, and effects of conflict. The skills of negotiation and third party intervention in conflict resolution. (4 units)

431. Classroom Communication

Communication skills in instructional settings, including strategies to facilitate understanding and analysis of classroom behavioral models. Prerequisite: COMM 120 or equivalent. (4 units)

441. Interviewing

Interviewing in formal and informal settings. Understanding of employment, journalistic, informative and persuasive interviews. Prerequisite: COMM 120 or equivalent. (4 units)

442. Public Relations Campaigns

Advanced course in public relations that focuses on informational and persuasive communication campaigns to achieve commercial, political and social goals. Emphasis on case analysis and campaign development and campaign implementation. Prerequisites: COMM 341 and 344. (4 units)

444. Advanced Communication Practicum

Advanced application of communication theory and methods. COMM 243A, 243B, 243D, 382, 444A, 444B and 444D may each be taken twice for credit, but no more than 9 total units from any combination of these courses may be applied toward the major. Graded credit/no credit.

- A. Television Production. Prerequisites: COMM 245, 345, and 346, with a grade of "B" (3.0) or better in COMM 346. (3 units)
- B. Research. Prerequisites: COMM 306 and 400. (3 units)
- D. Mentoring. Prerequisites: COMM 225, 331 or 403 or equivalent or permission of instructor. (3 units)

450. Broadcast Research and Audience Analysis

Methods used for understanding the relationship between media producers, the audience, and other social forces. Prerequisite: COMM 400. (4 units)

471. International Communication

Political, economic, and cultural analysis of the structure, context, and impact of communication across national boundaries, including news, entertainment, advertising, corporate communication, transborder data flows and the Internet. (4 units)

481. History and Development of Documentary

Examination of the historical background, economic development, and social influences of documentaries. Theories of cultural representation, rhetorical strategies, and ethical considerations will be studied, with particular emphasis on their application to alternative and experimental documentary forms. (4 units)

501. Ethical Aspects of Communication

Focuses on exploring and assessing issues of responsibility and ethical standards of communication in areas such as interpersonal, political, print, TV/film, organizational and electronic communication contexts. Goals of the course include stimulation of the moral imagination; recognition of ethical issues; and development of critical/analytical skills. Prerequisites: COMM 200, 306 and 400 or consent of department. (4 units)

502. Communication Law and Policy

Exploration and application of laws and regulations as they affect communication. Includes consideration of freedom of speech, libel and slander, intellectual property, broadcast regulations and privacy. (4 units)

520. Integrated Marketing Communication

An integrated perspective on the process of communicating marketing messages to promote products, services, ideas, people, causes and events. Advertising, direct marketing, personal selling, public relations, and sales promotion strategies are explored with consideration given to global, ethical and technology-related issues. (Also offered as MKTG 520. Students may not receive credit for both.) (4 units)

522. Mediation Theory and Practice

Exploration of the theories, methods, and techniques of mediation as a collaborative process of resolving conflicts among individuals, groups, organizations, and nations. Third party intervention skills needed to serve as a mediator are developed through simulation exercises. Formerly a topic under COMM 585. Prerequisite: COMM 422 or permission of instructor. (4 units)

542. Issue Management and Crisis Communication

Principles and methods of issue evaluation and crisis management in public relations communication including issue monitoring, issue analysis, policy options, program design, evaluation, and identification. Formerly a topic under COMM 585. Prerequisite: COMM 442 or equivalent or consent of instructor. (4 units)

580. Culture and Ethnicity in Language

Critical examination of the way language shapes perceptions, behaviors, and attitudes about culture and ethnicity. Formerly a topic under COMM 584. Prerequisite: COMM 304 or equivalent. (4 units)

581. Contemporary Theories of Rhetoric

Study of 20th century conceptualizations of rhetoric and intercultural communication with an emphasis on contemporary public discourse in different cultural settings. (4 units)

584. Topics in Critical Communication

Intensive study of selected topics in critical communication studies. May be repeated for credit as topics change. Prerequisite: junior or senior standing. (4 units)

585. Topics in Human Communication

Special topics in human communication. May be repeated for credit as topics change. (4 units)

587. Topics in Mass Communication

Special topics in mass communication. May be repeated for credit as topics change. (4 units)

588. Topics in Intercultural Communication

Intensive study of selected topics in intercultural communication. May be repeated for credit as topics change. Prerequisite: COMM 304 or equivalent. (4 units)

589. Topics in Computer Mediated Communication

Intensive study of selected topics in computer mediated communication. May be repeated for credit as topics change. Prerequisite: COMM 309 or equivalent or permission of instructor. (4 units)

591. Internship/Externship in Communication

Supervised work and study of communication processes in private and public settings. A total of ten units in COMM 591 may be applied toward graduation. Graded credit/no credit. Prerequisites: junior or senior status with a minimum of 16 units of communication course work completed on this campus; minimum overall grade point average of 2.5; written consent from a supervising agency within which the internship will take place; departmental approval of a contract between the intern and the supervising agency to be filed prior to the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

593. Communication Approaches to Area Studies

Examination of communication practices and issues within world regions and among cultural groups which may include the role of communication in political, economic, social and cultural conflict and change. May be repeated for credit as focus area changes. Prerequisite: COMM 304 or equivalent.

- A. Africa (4 units)
- B. Asia-Pacific (4 units)
- C. Europe (4 units)
- D. Latin America (4 units)

595. Independent Study

Special topics involving library research, experimental or field research, or media production. A total of 10 units in COMM 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0 ("B"), consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken, and junior or senior status. (Credit to be arranged: 2 to 5 units)

599. Senior Project

Preparation and submission of a portfolio of course related products reflecting the goals and objectives of the communication major, accompanied by a reflective essay demonstrating how the portfolio reflects successful achievement of those goals and objectives. Required of all communication majors. Graded credit/no credit. Prerequisite: completion of 132 units with a minimum of 44 units in the major. (1 unit)

COMPUTER SCIENCE

Accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board.

Department of Computer Science

Jack Brown Hall, Room 307
880-5326

Bachelor of Science

Computer Science

Minor

Computer Science

Certificate Program

Computer Systems and Programming

Master of Science

Computer Science

(Degree requirements can be found on [Page 395](#).)

FACULTY: Richard Botting, Judy Cestaro, Arturo Concepcion (Chair), George Georgiou, Ernesto Gomez, Dennis Ikenberry (Emeritus), Yasha Karant, Fook Fah Liu (Emeritus), Josephine Mendoza, Owen Murphy, David Turner, Kerstin Voigt, Tong Yu, Kay Zemoudeh

Computer science is a discipline with historical foundations in science, mathematics and engineering. It is concerned with the study of a variety of topics including computer design, computer programming, information processing, data communication, machine intelligence, robotics, the algorithmic solution of problems, and the various representations of information including numeric, alphabetic, visual, audio and sensory. This discipline deals with effective ways to represent and display information, algorithms to process information, languages in which to express algorithms, hardware systems to interpret such languages, theoretical techniques for insuring the accuracy and cost effectiveness of these processes and the philosophical foundations of computing and machine intelligence.

The Bachelor of Science degree program is accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board, a special national accrediting body recognized by the Council on Postsecondary Accreditation and the U.S. Department of Education.

The Minor in Computer Science is designed to give students from all academic disciplines a foundation in computing which will enrich and support the student's own field of study.

The Certificate Program in Computer Systems and Programming is a short course of study provided for those individuals who desire a career in the computer science field which does not require a formal degree.

The Computer Science Department maintains and operates a computer facility which consists of over 120 engineering workstations on the Internet. The facility houses several file servers supporting over 100 gigabytes of secondary storage for application software and user directories.

To stay ahead in today's increasingly competitive computer marketplace and to broaden each student's computer applications horizon, the department encourages student affiliation with the California State University's International Programs. For further information, see [Page 25](#).

B.S. IN COMPUTER SCIENCE

Requirements (119 units)

Total units required for graduation: 191

Requirements for the B.S. in Computer Science:

Lower-division requirements (53 units)

1. CSCI 201. Computer Science I (4)
2. CSCI 202. Computer Science II (4)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. Four units chosen from:
 - MATH 213. Calculus III (4)
 - MATH 251. Multivariable Calculus I (4)
6. MATH 262. Applied Statistics (4)
7. MATH 272. Discrete Mathematics (4)
8. PHYS 221. General Physics I (5)
9. PHYS 222. General Physics II (5)
10. PHYS 223. General Physics III (5)
11. Five units chosen from:
 - BIOL 100. Topics in Biology (5)
 - BIOL 200. Biology of the Cell (5)
 - BIOL 250. Biology of Ecosystems (5)
12. One additional science course (with lab component), not previously taken, from the following areas:
 - Biology (5)
 - Chemistry (5)
 - Geological Sciences (5)
 - Physics (5)

Upper-division requirements (46 units)

1. CSCI 310. Digital Logic (5)
2. CSCI 313. Machine Organization (4)
3. CSCI 320. Programming Languages (4)
4. CSCI 330. Data Structures (4)
5. CSCI 350. File Systems (4)
6. CSCI 401. Contemporary Computer Architectures (5)
7. CSCI 431. Algorithm Analysis (4)
8. CSCI 455. Software Engineering (4)
9. CSCI 460. Operating Systems (4)
10. CSCI 488. Ethics and the Computing Professional (2)
11. CSCI 489. Senior Seminar (2)
12. Four units chosen from:
 - MATH 331. Linear Algebra (4)
 - MATH 372. Combinatorics (4)

Electives (20 units)

1. Theory
 - Four units chosen from:
 - CSCI 500. Introduction to Formal Languages and Automata (4)
 - CSCI 515. Automated Reasoning (4)
 - CSCI 546. Introduction to Theory of Computation (4)

2. Systems
Four units chosen from:
CSCI 565. Systems Programming (4)
CSCI 570. Compilers (4)
CSCI 572. Data Base Systems (4)
3. Hardware
A minimum of four units chosen from:
CSCI 510. Advanced Computer Architecture (4)
CSCI 525. Parallel Algorithms and Programming (4)
CSCI 530. Data Communications and Networks (4)
4. Eight units chosen from 400- and above level courses not previously counted as electives above.
Note: Students may not count more than five units combined in CSCI 575 and 595.

MINOR IN COMPUTER SCIENCE

Requirements (28 units)

Requirements for a minor in Computer Science:

1. Mathematics
Four units chosen from:
MATH 272. Discrete Mathematics (4)
MATH 372. Combinatorics (4)
2. CSCI 201. Computer Science I (4)
3. CSCI 202. Computer Science II (4)
4. CSCI 330. Data Structures (4)
5. Twelve units of upper-division CSCI courses. These units may not include CSCI 399 or 575.

DEPARTMENTAL HONORS

The department faculty will determine whether a student is to be awarded departmental honors based upon the following criteria:

1. Demonstration of independent work by achieving a grade of "C" (2.0) or better in a four-unit CSCI 595. Independent Study or credit in CSCI 575. Internship in Computer Science;
2. Attainment of a minimum overall grade point average of 3.0 ("B") in all university courses attempted and a minimum grade point average of 3.5 in all computer science courses required by the major (as defined above);
3. At least five computer science courses required by the major must be taken at this university.

Candidacy for honors in computer science is voluntary and must be applied for at the beginning of the senior year. Approval of honors rests solely with the department and other factors may weigh in their judgment.

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of ma-

terials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Computer Systems and Programming

Certificate Requirements (28 units)

1. Two units chosen from:
CSCI 123. Using Computer Software (2)
CSCI 124. Exploring the Information Superhighway (2)
2. CSCI 125. Programming in BASIC (2)
3. CSCI 201. Computer Science I (4)
4. CSCI 202. Computer Science II (4)
5. CSCI 360. System Tools (4)
6. Twelve units of upper-division coursework to be chosen in consultation with the chair of the Department of Computer Science.

COURSE OFFERINGS IN COMPUTER SCIENCE (CSCI)

Lower Division

121. Computer Technology and People (FWS)

Computer technology: background, contemporary uses, implications and trends, impact on society and ethics. No previous computer background required. May not be taken for credit by students who have received credit for CSCI 100, 120 or 127. (GE=B.4) (2 units)

123. Using Computer Software (FWS)

Word processor, spreadsheet, and data base as an aid to personal productivity. One hour lecture and two hours laboratory. No previous computer background required. May not be taken for credit by students who have received credit for CSCI 100 or 127. (2 units)

124. Exploring the Information Superhighway (FWS)

Familiarization, use and customization of software tools to explore and publish information on the Internet. This includes Electronic Mail, the World Wide Web and USENET news groups. One hour lecture and two hours laboratory. (GE=B.4) (2 units)

125. Programming in BASIC (FWS)

Beginners All-purpose Symbolic Instruction Code (BASIC). One hour lecture and two hours laboratory. No previous computer background required. May not be taken for credit by students who have received credit for CSCI 120. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (CSCI 125=CAN CSCI 6) (2 units)

126. Advanced BASIC Programming

Advanced features and application of BASIC. Students will write programs using advanced skills including peeks and pokes, simulations, matrices and file handling. Prerequisite: CSCI 125. (2 units)

127. Introduction to Computer Technology for Educators (FWS)

Operations, terminology and components. Implications for a democratic society, impacts on quality-of-life including economics, morality, legality and ethics. Hands-on use of computers for word processing, etc. Three hours lecture and two hours laboratory. No programming involved. No previous computer experience required. May not be taken for credit by students who have received credit for CSCI 100, 121 and 123. (4 units)

128. Application Programming

Developing applications using a current graphical user programming environment. Three hours lecture and two hours activity laboratory. (4 units)

201. Computer Science I (FWS)

Computer software design, implementation, methods and environments using a current high-level language. Survey of computers, applications and other areas of computer science. Three hours lecture and two hours activity laboratory. Prerequisite: satisfactory score on the Entry Level Mathematics examination, some prior computer programming experience, or CSCI 121 and 125. (CSCI 201=CAN CSCI 22) (4 units)

202. Computer Science II (FWS)

Analysis of problems and the formulation, documentation and implementation of their solutions; an introduction to data structures with abstract data types; software engineering principles for both individual and group projects. Three hours lecture and two hours activity laboratory. Prerequisites: CSCI 201 and satisfactory score on the Entry Level Mathematics examination. (CSCI 202=CAN CSCI 24) (4 units)

240. FORTRAN Programming

FORTRAN language with emphasis on computer solution of problems reducible to algebraic models and elementary numerical methods. Prerequisites: MATH 211 and either some computer programming experience or both CSCI 121 and 125. (CSCI 240=CAN CSCI 4) (4 units)

280. Low Level Language

Study of the assembly language for selected processors such as 8086/88, 68000, PDP II, VAX II, etc. May be repeated twice for credit as topics change. Prerequisite: CSCI 202. (4 units)

290. High Level Language

Study of a selected high-level programming language, such as ADA, COBOL, C, Prolog or LISP. May be repeated for credit as topics change. Prerequisite: CSCI 202. (CSCI 290=CAN CSCI 16) (4 units)

292. Object Oriented Programming (W)

Study of object oriented programming and techniques using a current object oriented programming language. Prerequisite: prior course in computer programming. (4 units)

295. Computer Science Project

Production of documented computer programs under the direction of a faculty member. May be repeated twice for credit using different projects, a total of 4 units may apply toward

graduation. Prerequisites: a minimum overall grade point average of 3.0 ("B"), consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

298. Application Software Topics

Applications software in areas such as word processing, data base, graphics, desk top publishing, planning and communications will be examined under specific operating systems. This is a how-to course and hands-on experience will be stressed. May be repeated for credit as topics change. No previous computing experience is required. One hour lecture and two hours laboratory. Graded credit/no credit. (2 units)

Upper Division**310. Digital Logic (FW)**

Boolean algebra, flip-flops, combinational and sequential circuits, arithmetic-logic units, memory devices, and I/O peripherals. Laboratory experiments include bread-board assembly of finite state machine circuits, registers and arithmetic-logic processors. Four hours lecture and three hours laboratory. Prerequisites: CSCI 202, MATH 272 and PHYS 222. (5 units)

313. Machine Organization (WS)

Typical components of von Neumann computer architectures; their organization, interrelated activities and control are emphasized and demonstrated using low-level languages. Three hours lecture and two hours activity laboratory. Formerly CSCI 260. Prerequisite: CSCI 310. (4 units)

320. Programming Languages (WS)

Topics include formal language specification, data types and their implementation, abstract mechanisms, control structures, run-time representations and storage management. Several high-level languages will be examined. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 202. (4 units)

322. Web Page Programming

Current protocols, technology, languages, and methodologies for the browser side of web-based systems; performance issues; human factors, page and site design. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 320 or consent of instructor. (4 units)

330. Data Structures (FWS)

Abstract data structures including lists, stacks, queues and trees; their storage allocation and associated application algorithms. Prerequisites: CSCI 202 and MATH 272. (4 units)

350. File Systems (FS)

Topics include file structures, file organization concepts and philosophies. Prerequisite: CSCI 330. (4 units)

360. System Tools (F)

Getting started; terminal types; e-mail; command line and GUI interfaces; advanced editing; macros; text processing and programmer's tools. Two hours lecture and four hours activity laboratory. Prerequisite: CSCI 202. (4 units)

365. Systems Administration (W)

Responsibilities and skills of the system administrator; managing accounts, system files and mail; security, reliability and backups; emergencies; ethics and usability. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 360. (4 units)

366. Systems Networking (S)

Planning and configuring networks; file transfer; network file servers; bridges and routers. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 360. (4 units)

399. Community Service Project

Credit for performing academically related tasks in such agencies as educational, governmental and social service institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)

401. Contemporary Computer Architectures (F)

Design methodology; processor units and control units of von Neumann computer architectures; RISC architectures, including pipelining and parallel-processing. Laboratory experiments consist of the use of computer-aided design tools for VLSI layout and simulation. Four hours lecture and three hours laboratory. Formerly CSCI 311. Prerequisite: CSCI 313 (or 260). (5 units)

405. Server Programming

Current operating system technology; languages and methodologies of controlling servers; performance analysis; interfaces to data bases; security, monitoring, and maintainability. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 322. (4)

420. Computer Graphics (F)

Survey of computer graphics hardware. Topics include animation, two-dimensional and three-dimensional transformation, hidden surface removal algorithm, business charts and applications. Prerequisite: CSCI 330. (4 units)

431. Algorithm Analysis (S)

Analysis and design of algorithms, including time and space complexity, design methodologies, and taxonomic classification of problems. Formerly CSCI 331. Prerequisites: CSCI 330, and MATH 372 or 465. (4 units)

455. Software Engineering (W)

Advanced techniques and technology used to produce large software systems. Laboratory work with a software development environment. Three hours lecture and three hours laboratory. Prerequisite: CSCI 330. (4 units)

460. Operating Systems (S)

An overview of operating systems. Principles of resource management and control. Multiprogramming, distributed systems and multiprocessor systems will be included. Three hours lecture and two hours activity laboratory. Prerequisites: CSCI 313 (or 260) and 330. (4 units)

488. Ethics and the Computing Professional (F)
Professionalism, ethics, legal issues and the social impact and role of computer technology. Prerequisite: senior standing. (2 units)

489. Senior Seminar (S)

A series of weekly seminars covering a wide range of computer science topics and formats including presentations from industry and university personnel, and students regarding projects and research work. Graded credit/no credit. Prerequisite: completion of all required 300-level computer science courses for the B.S. in Computer Science degree. (2 units)

492. Topics in Computer Science (S)

Consideration of a selected area of computer science. May be repeated for credit as topics change. Prerequisite: CSCI 431 (or 331) or consent of instructor. (2 units)

500. Introduction to Formal Languages and Automata (W)

Introduction to formal language theory. Finite state machines, regular grammars, context-free grammars, context-sensitive grammars, push-down automata, closure properties. Prerequisite: CSCI 431 (or 331) or consent of instructor. (4 units)

510. Advanced Computer Architecture (W)

High performance computer architectures and algorithms including pipeline, vector, array, multiprocessor computer designs, applications, and programming. Also covered are data flow and systolic machines, interconnection networks, and graph and parallel graph algorithms. Formerly CSCI 410. Three hours lecture and two hours laboratory. Prerequisite: CSCI 401 (or 311). (4 units)

511. Expert Systems

Expert systems components, problems and applications. Knowledge bases, inference "engines," and their integration within expert systems. Tools for building expert systems, system algorithms as related to hardware, implementation languages and examples of systems in operation. Prerequisite: CSCI 330. (4 units)

512. Introduction to Artificial Intelligence (W)

Problems and issues of artificial intelligence, current techniques and methods, and future prospects of machine intelligence. Three hours lecture and two hours activity laboratory. Formerly CSCI 411. Prerequisite: CSCI 330. (4 units)

513. Advanced Artificial Intelligence (S)

Advanced issues and techniques in artificial intelligence; intelligent agents for problem solving, reasoning and learning; advanced artificial intelligence programming in LISP. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 512 (or 411) or consent of instructor. (4 units)

515. Automated Reasoning (F)

Study of deduction algorithms for expert systems and the limitations thereof, propositional calculus, quantification theory, completeness and incompleteness theorems, Herbrand-Gödel computability, resolution principle, equality and inequality relations. Prerequisite: CSCI 431 (or 331). (4 units)

520. Advanced Computer Graphics (S)

Advanced computer graphics concepts, theory and implementation techniques. Topics include shading models, parametric curves and surfaces, hidden edge and surface removal, and anti-aliasing. Prerequisites: CSCI 420, MATH 331 and either MATH 213 or 251. (4 units)

524. Supercomputing and Visualization (F)

Design and implementation of scientific applications on high performance computers emphasizing graphics and visualization techniques. Topics include parallel algorithm development, multiprocessor and multicomputer programming, and real-time visualization programming of computationally intensive problems in the sciences. Prerequisite: CSCI 202 or consent of instructor. (4 units)

525. Parallel Algorithms and Programming (S)

Topics include algorithm design, analysis, and programming of high performance computers. Also covered are control-parallel versus data-parallel approaches, PRAM algorithm design, and selected parallel programming languages. Four hours lecture. Prerequisite: CSCI 401. (4 units)

530. Data Communications and Networks (F)

Topics include baseband and broadband signals and modulation schemes. Error detecting and correcting codes, ISO protocol standard, packet switching and various local network schemes. Formerly CSCI 430. Prerequisites: CSCI 313 (or 260) and 330. (4 units)

540. System Simulation (F)

Theory and implementation of computerized modeling. Examples will include administrative, physical and biological systems. Prerequisite: CSCI 330 or consent of instructor. (4 units)

546. Introduction to Theory of Computation (S)

Deterministic and non-deterministic Turing machines, decidable and undecidable problems, complexity classes P and NP. Formerly CSCI 505. Prerequisite: CSCI 431 (or 331). (4 units)

556. Introduction to Formal Methods, Models and Languages (W)

Applications of logic and mathematics in documenting problems, requirements, specifications, designs, and software. Formal modeling languages. Diagrammatic, algebraic, and tabular models. Model checking. Students prepare, check, and present models using techniques in the literature. Three hours lecture and two hours activity laboratory. Prerequisites: CSCI 320 and 330. (4 units)

565. Systems Programming (W)

Concepts of, and implementation techniques for systems software such as assemblers, editors, interpreters, linkers, loaders and operating systems. Formerly CSCI 450 and 465. Prerequisite: CSCI 460. (4 units)

570. Compilers (S)

Interpreter and compiler structures. Topics include symbol tables, lexical and syntactic analyzers, and object code generation. Three hours lecture and two hours activity laboratory. Formerly CSCI 470. Prerequisites: CSCI 313 (or 260), 320 and 330. (4 units)

572. Data Base Systems (F)

Basic concepts of data base and the different approaches to data base organization-relational, network and hierarchical. Discusses storage structures necessary for an implementation of a data base design and provides "hands-on" application on one or more commercial data base management systems. Three hours lecture and two hours activity laboratory. Formerly CSCI 480. Prerequisite: CSCI 350. (4 units)

575. Internship in Computer Science

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisite: consent of internship coordinator. (5 units)

580. Advanced Data Base Systems (W)

Advanced description: advanced study of components of general data base systems and other topics such as implementation methods, query language design, reliability, integrity, performance measures, distributed database systems and database machines. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 572. (4 units)

594. Topics in Computer Science (S)

An in-depth consideration of selected areas of computer science. May be repeated for credit as topics change. Formerly CSCI 494, credit may not be received twice for the same topic. Prerequisite: CSCI 431 (or 331) or consent of instructor. (4 units)

595. Independent Study

Laboratory and/or library research conducted under the direction of a faculty member. A total of five units in CSCI 595 may be applied toward the computer science major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

CRIMINAL JUSTICE

Department of Criminal Justice

Social and Behavioral Sciences Building, Room 209
880-5506

Bachelor of Arts

Criminal Justice
Paralegal Studies

Minor

Criminal Justice
Paralegal Studies

Master of Arts

Criminal Justice
(Degree requirements can be found on [Page 404.](#))

Certificate Program

Criminal Justice
Paralegal Studies

FACULTY: Gisela Bichler-Robertson, Frances Coles, John Conley, Larry Gaines (Chair), Brian Levin, Deborah Parsons, Pamela Schram, Dale Sechrest, Stephen Tibbetts, John Worrall

A system of criminal justice must meet the needs of each citizen as well as the needs of complex social, economic and governmental institutions. The Bachelor of Arts degree program in criminal justice was developed with these needs in mind and is appropriate for both career-bound preservice students and inservice personnel in law enforcement, probation, parole, corrections, social service agencies and related areas.

In addition, the program is designed to provide students with an appropriate academic background for continuing their graduate studies in criminal justice, criminology or other areas such as law.

The criminal justice major is an interdisciplinary program with enough flexibility to permit students to pursue their own interests. For example, students wishing to emphasize law enforcement may select appropriate courses within the major and are encouraged to minor in administration, political science or sociology. Students directed toward probation, parole or corrections work are advised to select courses accordingly and to take electives in psychology or sociology.

The paralegal studies option and certificate program are designed to prepare and qualify students for employment as paralegals in the private and public sectors. As such they provide opportunities for a variety of individuals to become acquainted with the field of law. A paralegal is essentially a legal assistant who works under the supervision of a lawyer and functions as a vital member of a law office team. Such paraprofessional positions have been created by many public and private agencies, and government law offices to help meet the increasing demands for their services.

Paralegal work involves doing legal research, interviewing clients, representing clients before some administrative agencies, assisting in the drafting and interpreting of legal documents and participating in various other paraprofessional

activities. Those with an interest in legal studies will find the program rewarding as an introduction to the area of legal studies or as an in-depth study of some one aspect of law.

B.A. IN CRIMINAL JUSTICE

Requirements (70 units)

Total units required for graduation: 180

Requirements for the B.A. in Criminal Justice:

Lower-division requirements-prerequisites for upper-division courses (10 units)

1. CJUS 100. Resources in Criminal Justice (2)
Must be completed no later than the second quarter a student is enrolled as a criminal justice major.
2. CJUS 101. Introduction to the Criminal Justice System (4)
3. CJUS 102. Criminal Law (4)
Note: Students transferring from community colleges may substitute selected administration of justice and corrections courses for CJUS 101, 102 and 106 and may be given lower-division credit toward the major for two additional elective courses.

Upper-division requirements (16 units)

1. CJUS 311. Research Methods in Criminal Justice (4)
2. CJUS 312. Statistics in Criminal Justice (4)
3. CJUS 320. Theories of Crime and Delinquency (4)
4. CJUS 598. Integrative Studies in Criminal Justice (4)

Electives (44 units)

1. Forty-four units chosen from:
 - CJUS 106. Introduction to Criminal Investigation (4)
 - CJUS 330. Correctional Theory and Institutions (4)
 - CJUS 340. Police and Police Systems (4)
 - CJUS 354. Victimology (4)
 - CJUS 355. Organized Crime (4)
 - CJUS 361. Comparative Criminal Justice Systems (4)
 - CJUS 370. Law and the Courts (4)
 - CJUS 430. Correctional Administration (4)
 - CJUS 431. Community Corrections (4)
 - CJUS 435. Correctional Counseling (4)
 - CJUS 440. Police Administration (4)
 - CJUS 441. Community Policing (4)
 - CJUS 451. Women and Crime (4)
 - CJUS 452. Occupational and Corporate Crime (4)
 - CJUS 460. Alcohol, Drugs and the Criminal Justice System (4)
 - CJUS 462. Domestic Violence and the Criminal Justice System (4)
 - CJUS 465. Hate Crime Law and Policy (4)
 - CJUS 466. Justice and the Media (4)
 - CJUS 504. Procedure and Evidence (4)
 - CJUS 550. Criminal Justice Information Systems (4)
 - CJUS 575. Internship in Criminal Justice (4)
 - CJUS 580. Juvenile Justice System (4)
 - CJUS 590. Topics in Criminal Justice (4)
 - CJUS 595. Independent Study (1-4) for a total of (4)
 - CJUS 597. Senior Honors Project (4)

Note: With consent of department course substitution committee, eight upper-division units in related fields may be substituted for eight units of the elective requirement.

B.A. IN CRIMINAL JUSTICE - PARALEGAL STUDIES OPTION

Requirements (70 units)

Total units required for graduation: 180

Requirements for the B.A. in Criminal Justice - Paralegal Studies Option:

Lower-division requirements-prerequisites for upper-division courses (14 units)

1. CJUS 100. Resources in Criminal Justice (2)
2. CJUS 101. Introduction to the Criminal Justice System (4)
3. CJUS 102. Criminal Law (4)
4. PLST 100. Introduction to Law (4)

Note: Students transferring from community colleges may substitute selected administration of justice, corrections, and paralegal courses for CJUS 101, 102 and PLST 100. In addition students may be given lower-division credit toward the major for two additional elective courses.

Upper-division requirements (24 units)

1. CJUS 311. Research Methods in Criminal Justice (4)
2. CJUS 312. Statistics in Criminal Justice (4)
3. PLST 385. Legal Research (4)
4. PLST 386. Legal Writing (4)
5. PLST 371. Contract Law (4)
6. PLST 372. Tort Law (4)

Electives (32 units)

1. Thirty-two units chosen from:
CJUS 370. Law and the Courts (4)
CJUS 504. Procedure and Evidence (4)
PLST 370. Wills, Estates and Trusts (4)
PLST 373. Property Law (4)
PLST 376. Family Law (4)
PLST 377. Fundamentals of Litigation (4)
PLST 378. Corporate Law (4)
PLST 575. Internship in Paralegal Studies (4)
PLST 590. Seminar in Paralegal Studies (4)
PLST 595. Independent Study (1-4) for a total of (4)

A maximum of eight units may be chosen from the following:

- ACCT 211. Introductory Accounting I (4)
- BIOL 223. Human Physiology and Anatomy I (4)
- COMM 311. Business and Professional Communication (4)
- COMM 441. Interviewing (4)
- COMM 522. Mediation Theory and Practice (4)
- PSCI 410. American Constitutional Law (4)
- PSCI 500. International Law (4)

MINOR IN CRIMINAL JUSTICE

Requirements (28 units)

Requirements for a minor in Criminal Justice:

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)
3. CJUS 320. Theories of Crime and Delinquency (4)
4. CJUS 330. Correctional Theory and Institutions (4)
5. CJUS 340. Police and Police Systems (4)
6. CJUS 370. Law and the Courts (4)
7. Four units chosen from upper-division electives in Criminal Justice.

MINOR IN PARALEGAL STUDIES

Requirements (28 units)

Requirements for a minor in Paralegal Studies:

1. PLST 100. Introduction to Law (4)
2. PLST 385. Legal Research (4)
3. PLST 386. Legal Writing (4)
4. Sixteen units chosen from:
PLST 370. Wills, Estates and Trusts (4)
PLST 371. Contract Law (4)
PLST 372. Tort Law (4)
PLST 373. Property Law (4)
PLST 376. Family Law (4)
PLST 377. Fundamentals of Litigation (4)
PLST 378. Corporate Law (4)
PLST 590. Seminar in Paralegal Studies (4)

DEPARTMENTAL HONORS

Students majoring in criminal justice are eligible to receive honors in criminal justice at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall undergraduate grade point average of 3.0 ("B");

Students interested in receiving this recognition must initiate the process by filing a formal application with the chair of the Criminal Justice Department.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. See [Page 61](#) for further certificate requirements.

Certificate in Criminal Justice

Certificate Requirements (32 units)

1. CJUS 101. Introduction to the Criminal Justice System (4)
2. CJUS 102. Criminal Law (4)
3. CJUS 320. Theories of Crime and Delinquency (4)
4. CJUS 330. Correctional Theory and Institutions (4)
5. CJUS 340. Police and Police Systems (4)
6. CJUS 370. Law and the Courts (4)
7. Eight units chosen from upper-division electives in criminal justice.

Certificate in Paralegal Studies

Requirements (92 units)

General Education (28 units)

1. ENG 101. Freshman Composition (4)
 2. Four units chosen from:
 - MATH 110. College Algebra (4)
 - MATH 115. The Ideas of Mathematics (4)
 - MATH 120. Pre-Calculus Mathematics (4)
 - MATH 211. Basic Concepts of Calculus (4)
 3. Four units chosen from:
 - COMM 180. Critical Thinking Through Argumentation (4)
 - MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
 - PHIL 200. Critical Thinking Through Symbolic Logic (4)
 - PSYC 105. Critical Thinking Through Problems Analysis (4)
 - SOC 180. Critical Thinking about Social Problems (4)
 4. PSCI 203. American Government (4)
 5. SSCI 306. Expository Writing in the Social Sciences (4)
 6. Integrative Capstone in the Social and Behavioral Sciences
 - Four units chosen from:
 - SSCI 300. Nonwestern World (4)
 - SSCI 304. Contemporary Latin America (4)
 - SSCI 315. Cultural Adaptation: The Quest for Survival (4)
 - SSCI 316. Race and Racism (4)
 - SSCI 320. Understanding Capitalism (4)
 - SSCI 321. Urbanization and the Urban Environment (4)
 - SSCI 325. Perspectives on Gender (4)
 - SSCI 343. Understanding Socialism (4)
 - SSCI 345. Religious Expression in America (4)
 - SSCI 350. Roots of Modern Racism in America (4)
- Note:** Student may receive credit for only one of the following courses:
- HUM 325. Perspectives on Gender
 - NSCI 325. Perspectives on Gender
 - SSCI 325. Perspectives on Gender
7. Integrative Capstone in the Humanities
 - Four units chosen from:
 - HUM 319. Myth, Metaphor and Symbol (4)
 - HUM 325. Perspectives on Gender (4)
 - HUM 330. Arts and Ideas (4)

- HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 - HUM 340. Interpretation and Values (4)
 - HUM 344. Ideas in American Culture (4)
 - HUM 350. The Cultures of American Childhood (4)
 - HUM 370. African Heritage in the Arts (4)
 - HUM 380. Comparative Studies in the Arts: East and West (4)
 - HUM 385. A Cultural History of Fashion (4)
- Note:** Student may receive credit for only one of the following courses:
- HUM 325. Perspectives on Gender
 - NSCI 325. Perspectives on Gender
 - SSCI 325. Perspectives on Gender

Legal Speciality (36 units)

1. Required courses (20 units)
 - PLST 100. Introduction to Law (4)
 - PLST 385. Legal Research (4)
 - PLST 386. Legal Writing (4)
 - PLST 371. Contract Law (4)
 - PLST 372. Tort Law (4)
2. Elective courses (16 units)
 - A minimum of eight units must be taken from the following:
 - PLST 370. Wills, Estates and Trusts (4)
 - PLST 373. Property Law (4)
 - PLST 376. Family Law (4)
 - PLST 377. Fundamentals of Litigation (4)
 - PLST 378. Corporate Law (4)
 - PLST 575. Internship in Paralegal Studies (4)
 - PLST 590. Seminar in Paralegal Studies (4)
 - PLST 595. Independent Study (1-4)
 - No more than eight units may be taken from the following:
 - ACCT 211. Introductory Accounting I (4)
 - BIOL 223. Human Physiology and Anatomy I (5)
 - CJUS 370. Law and the Courts (4)
 - CJUS 504. Procedure and Evidence (4)
 - COMM 311. Business and Professional Communication (4)
 - COMM 441. Interviewing (4)
 - COMM 522. Mediation Theory and Practice (4)
 - PSCI 410. American Constitutional Law (4)
 - PSCI 500. International Law (4)

General Electives (28 units)

1. Twenty-eight units chosen from upper-division courses in any field.

COURSE OFFERINGS IN CRIMINAL JUSTICE (CJUS)

Lower Division

100. Resources in Criminal Justice

A study of data and literature sources in criminal justice. Includes familiarization with library resources, explanation of writing requirements, discussion of citation models and approaches to test taking. This course must be completed no later than the second quarter a student is enrolled at California State University, San Bernardino as a criminal justice major. (2 units)

101. Introduction to the Criminal Justice System

A descriptive overview of the adult and juvenile justice system, from the commission of crimes and offenses through sentencing and appeal procedures. Criminal justice standards and goals and the relationship of the social and behavioral sciences to criminal justice will be emphasized. (CJUS 101=CAN AJ 2) (4 units)

102. Criminal Law

Historical development of criminal law and its contemporary application. Focus on the interrelationship between criminal law and the criminal justice system. (CJUS 102=CAN AJ 4) (4 units)

106. Introduction to Criminal Investigation

Examination of crime, evidence and police procedures in investigating crime. Investigation of crime, including organized crime, street crime and white collar crime. (4 units)

Upper Division

CJUS 100, 101 and 102 are prerequisites for all upper-division courses.

311. Research Methods in Criminal Justice

Introduction to scientific methodology and research designs used to conduct basic and applied research in the criminal justice field. Emphasis on scientific operationalization, survey methodology, and concepts of evaluation design. (4 units)

312. Statistics in Criminal Justice

Introduction to statistical reasoning and social science statistics commonly used in criminal justice. Includes descriptive, inferential and predictive statistics, with emphasis on interpretation rather than calculation. Prerequisite: MATH 110 or 115 or equivalent. (4 units)

320. Theories of Crime and Delinquency

Causes of crime and delinquency with emphasis on sociological factors. (4 units)

330. Correctional Theory and Institutions

History and theory of punishment; overview of history of correctional institutions; analysis and evaluation of contemporary institutional corrections; consideration of research concerning correctional institutions. (4 units)

340. Police and Police Systems

Analysis of police, police systems and the police role; limitations imposed on law enforcement in a democratic society in accordance with the Constitution; problems affecting crime control and the interdependence of police and community. (4 units)

354. Victimology

Victim role, criminal-victim relationships, and societal reaction to victimization, including crisis-intervention centers, court related victim/witness services, restitution and compensation. (4 units)

355. Organized Crime

History, development and effects of organized crime in the U.S., relationship of organized crime to political and economic structures, methods of combatting organized crime. (4 units)

361. Comparative Criminal Justice Systems

Description and analysis of selected international criminal justice systems. Emphasis on administrative functions, processes and outcomes. (4 units)

370. Law and the Courts

Nature, functions, limitations and objectives of law, criminal courts, civil courts, the grand jury and petit jury, family law, and civil liability for police and correctional officers. Emphasis on practical legal problems confronting criminal justice system workers and administrators. (4 units)

430. Correctional Administration

In-depth study of the administration and management of correctional agencies. Emphasis on organizational structure, functions and behavioral processes. Prerequisite: CJUS 330 or equivalent. (4 units)

431. Community Corrections

Issues and trends in community based corrections; alternatives to incarceration including diversion, restitution, community treatment facilities, halfway houses, probation and parole, and such developments as house arrest and electronic surveillance. Special emphasis on the functions, strengths, and problems of community based programs. (4 units)

435. Correctional Counseling

Examination of the history, theory and practice of counseling services within the correctional setting. Topics include rehabilitation (research and application of findings), limitations of counseling, legal liabilities of counselors, and the integration of treatment with other correctional goals. (4 units)

440. Police Administration

In-depth study of the administration and management of law enforcement agencies. Emphasis on organizational structure, functions and behavioral processes. Prerequisite: CJUS 340 or equivalent. (4 units)

441. Community Policing

Analysis of law enforcement strategies to secure cooperative police-community ventures aimed at enhancing community order and suppressing crime. Consideration of strategies designed to improve public relations. Prerequisite: CJUS 340 or equivalent. (4 units)

451. Women and Crime

A critical study of women as offenders, victims and workers within the criminal justice system. (GE=G.2) (4 units)

452. Occupational and Corporate Crime

Definition, history, extent, causes, consequences and enforcement methods regarding white collar, occupational and corporate crime in business, the professions, corporations, unions and government. (4 units)

460. Alcohol, Drugs, and the Criminal Justice System

Study of the history and development of criminal justice policy concerning alcohol and illegal drugs; consideration of the manufacture, importation, distribution of illegal drugs; particular emphasis placed on the impact of alcohol and illegal drug use on communities and the criminal justice system. (4 units)

462. Domestic Violence and the Criminal Justice System

Examination of violence in the family setting, including spousal abuse, child abuse and elder abuse; consideration of legal issues and of short term consequences for individuals, families and the community; response and responsibilities of the criminal justice system. (4 units)

465. Hate Crime Law and Policy

Analysis of the characteristics, prevalence, causes, and types of hate crimes in the United States. In addition, case law and statutes relating to hate crimes will be examined. (4 units)

466. Justice and the Media

Examination of the relationship between criminal justice and the media, including consideration of the impact of the media on attitudes and perceptions of crime and criminals, the relationship of the media and crime control, and the impact of the media on the operations of the agencies in the criminal justice system. (4 units)

504. Procedure and Evidence

Examination of the rules governing evidence and criminal procedure. Focus on the impact of statutes and case law on criminal justice system practitioners. Included are the 4th, 5th, 6th, 8th and 14th Amendments as they affect the accused, the convicted, and the employees of the criminal justice system. Formerly CJUS 304. Prerequisites: CJUS 102 and consent of instructor. (4 units)

550. Criminal Justice Information Systems

Analysis of existing criminal justice information systems and computer applications. Develop user applications to improve operations within and between criminal justice agencies. Prerequisites: CJUS 311 and 312 or equivalent. (4 units)

575. Internship in Criminal Justice

Supervised work and study in private or public organizations. Only four units may be applied to the criminal justice major. Open only to criminal justice majors. Graded credit/no credit. Prerequisite: consent of internship coordinator. (4 units)

580. Juvenile Justice System

History, development and theory of the juvenile justice system. Formerly CJUS 380. (4 units)

590. Topics in Criminal Justice

Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

595. Independent Study

In-depth research into special topics concerned with the criminal justice system utilizing readings, library and/or field research. A total of four units may be applied toward the criminal justice major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chair's approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

597. Senior Honors Project

Original research in an area of criminal justice studies, culminating in a major research report receiving approval of the criminal justice faculty. Enrollment limited to students whose formal application for departmental honors is approved. (4 units)

598. Integrative Studies in Criminal Justice

Overview and integration of major issues in criminal justice. Cannot be counted toward the M.A. in Criminal Justice. Limited to senior and graduate students. (4 units)

COURSE OFFERINGS IN PARALEGAL STUDIES (PLST)

Lower Division**100. Introduction to Law**

A general introduction to the law and the legal system. Focus will be on the role of the attorney and the paralegal within the legal system. (4 units)

Upper Division**370. Wills, Estates and Trusts**

Study of law relating to the control and disposition of property inter vivos (between living persons) and after death, wills, intestate succession (descent and distribution), future interests and trusts, estates in land, principles of estate planning and administration of an estate. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

371. Contract Law

Study of law relating to contract formation, formalities, performance and breach. Effect on a contractual relationship of various types of subsequent conduct by the contracting parties and remedies available for breach. Introduction to the Commercial Code of California. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

372. Tort Law

Legal liability for wrongful interference with the person; tangible property, real and personal; intangible interests; and advantageous relations. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

373. Property Law

Basic principles of law relating to various types of property interests: real and personal, tangible and intangible, public and private; acquisition; bailment; fixtures; deeds; escrow, recording and search of public documents and security instruments in connection with real property. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

376. Family Law

Formation and dissolution of the family unit: custody, support, property rights and obligations. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

377. Fundamentals of Litigation

Studies of trials at common law and in equity, including examination, competency and privileges of witnesses, judicial notice, burden of proof and presumptions; tactics of litigation,

discovery, fact investigation, jurisdiction, remedies, civil procedure and drafting of pleadings. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

378. Corporate Law

Legal status of the corporate entity, corporate structure and distribution of powers and duties among shareholders, directors and officers. Prerequisites: PLST 385 and 386 or consent of instructor. (4 units)

385. Legal Research

Methods of legal research techniques used to resolve legal questions. Introduction to law libraries and the various types and uses of legal materials available in the California and federal systems. (4 units)

386. Legal Writing

Introduction to the various forms and functions of legal writing using acquired research skills to apply and communicate, in writing, the law as it applies to a specific legal problem. Prerequisite: PLST 385 or consent of instructor. (4 units)

575. Internship in Paralegal Studies

Supervised work and study in public and private legal organizations. Graded credit/no credit. Prerequisites: completion of PLST 385 and 386, 16 additional units of paralegal certificate course work, and consent of paralegal studies coordinator. (4 units)

590. Seminar in Paralegal Studies

Selected current issues and topics in the paralegal field. May be repeated for credit as topics change. Prerequisites: PLST 385 and 386. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of 8 units in PLST 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, PLST 385 and 386, consent of instructor and coordinator, approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

DANCE

Department of Theatre Arts

Creative Arts Building, Room 111
880-5876

The following courses are offered in support of various programs offered by the university. For more information about the B.A. in Theatre Arts, Dance Emphasis, see [Page 344](#).

COURSE OFFERINGS IN DANCE (DAN)

Lower Division

200. Studies in Dance

Movement study and body conditioning in specific dance styles. May be repeated for credit up to six units per topic. No more than 12 units may be used to satisfy graduation requirements. Prerequisite: KINE 141 or consent of instructor.

- A. Jazz (2 units)
- B. Modern (2 units)
- C. Tap (2 units)
- D. Ballet (2 units)

Upper Division

300. Dance Technique

Complex movement technique and artistic interpretation in specific dance styles. May be repeated for credit up to six units per topic. No more than 20 units may be used to satisfy graduation requirements. Prerequisites: DAN 200 or equivalent experience and consent of instructor.

- A. Jazz (2 units)
- B. Modern (2 units)
- C. Tap (2 units)
- D. Ballet (2 units)
- E. Musical Theatre (2 units)

355. Dance Notation

Study and application of written notation for the analysis, reading and preservation of dance. One hour lecture and four hours laboratory. Prerequisite: six units of DAN 300 or consent of instructor. (3 units)

360. Dance History

Chronological study of major styles and personalities in dance. (4 units)

450. Choreography

Study and application of dance composition. May be repeated for credit. Formerly DAN 350. One hour lecture and four hours laboratory. Prerequisite: six units of DAN 300 or consent of instructor. (3 units)

481. Creative Dance in the Classroom

Dance techniques that emphasize concentration, imagination, body awareness and self-expression and are designed to develop creative leadership for parents, recreational leaders, elementary and secondary teachers. (4 units)

ECONOMICS

Department of Economics

Social and Behavioral Sciences Building, Room 327D
880-5511

Bachelor of Arts

Administration: Business Economics
(*Degree requirements can be found on Page 79.*)
Economics
Economics
Political Economy
Social Science Credential

Minor

Economics
Political Economy

FACULTY: Carolyn Aldana, Parviz Asheghian,
Jim Charkins, Kazim Konyar, Eric Nilsson, Tom Pierce,
Nancy Rose (Chair), Mayo Toruño

Economics is the study of how individuals and societies organize the production and distribution of goods and services. This involves an historical understanding of how our economy has developed and how people in various groups (according to gender, race and class) have been affected by it.

One of the tools economics provides is the ability to analyze the possible costs and benefits of competing alternatives. It provides a framework through which difficult choices can be analyzed-whether an individual should go to college now or later, or whether a firm should invest its money in more machines or offer a bonus to its labor force, or whether a government should spend money on schools or military hardware.

Training in economics provides excellent preparation for careers in industry, government and many professions including law, education, public administration and management.

B.A. IN ECONOMICS

Requirements (61-62 units)

Total units required for graduation: 180

Requirements for the B.A. in Economics:

Lower-division requirements (16 units)

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. MATH 110. College Algebra (4)
4. Four units chosen from:
 - ECON 250. Statistics for Economists (4)
 - MSCI 210. Applied Business Statistics (4)

Upper-division requirements (45 or 46 units)

1. ECON 300. Intermediate Macroeconomics (4)
2. ECON 302. Intermediate Microeconomics (4)
3. ECON 335. Economic Analysis with Microcomputers (5)
4. ECON 421. Economic History of the United States (4)
5. ECON 430. International Economics (4)

6. ECON 500. History of Economic Thought (4)
7. Four or five units chosen from:
 - ECON 322. Managerial Economics (4)
 - ECON 340. Advanced Economic Analysis with Microcomputers (4)
 - ECON 372. Business Cycles (5)
 - ECON 480. Introduction to Mathematical Economics (4)
 - ECON 490. Introduction to Econometrics (4)
8. Four units chosen from:
 - ECON 360. Economics of the Environment (4)
 - ECON 410. Money and Banking (4)
 - ECON 460. Labor Economics (4)
 - ECON 475. Public Finance (4)
9. Four units chosen from:
 - ECON 333. Political Economy of Women (4)
 - ECON 352. Political Economy of Poverty and Discrimination (4)
 - ECON 420. Comparative Economic Systems (4)
 - ECON 445. Political Economy (4)
 - ECON 450. Economic Development (4)
 - ECON 520. Social Economics (4)

10. Eight units of additional upper-division economics courses. With approval of a departmental advisor, eight units in related fields may be counted toward the upper-division course requirement in economics.

Note: In addition to the course requirements stated above, students considering graduate study in economics are urged to complete the following courses: ECON 480 and 490, MATH 211, 212, 251 and 331.

B.A. IN ECONOMICS - POLITICAL ECONOMY

Requirements (64 units)

Total units required for graduation: 180

Requirements for the B.A. in Economics - Political Economy:

Lower-division requirements (16 units)

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. ECON 250. Statistics for Economists (4)
4. MATH 110. College Algebra

Upper-division requirements (36 units)

1. ECON 300. Intermediate Macroeconomics (4)
2. ECON 302. Intermediate Microeconomics (4)
3. ECON 421. Economic History of the United States (4)
4. ECON 430. International Economics (4)
5. ECON 445. Political Economy (4)
6. ECON 500. History of Economic Thought (4)
7. ECON 520. Social Economics (4)
8. Four units chosen from:
 - ECON 333. Political Economy of Women (4)
 - ECON 352. Political Economy of Poverty and Discrimination (4)
9. Four units of additional upper-division economics courses.

Concentration (12 units)

Choose one of the following two concentrations:

Individualized Concentration

Students may propose a unique, individualized 12-unit concentration that provides a systematic introduction to a field related to political economy. The courses in this concentration can be chosen from departments or programs such as: communication, economics, ethnic studies, philosophy, sociology, political science, and women's studies. Courses from other departments or programs may also be selected. This proposed concentration must be submitted to the Economics Department no later than the student's junior year. This proposed concentration requires approval by the chair of the Economics Department.

Quantitative Political Economy Concentration

1. ECON 335. Economic Analysis with Microcomputers (4)
2. Eight units chosen from:
 - ECON 372. Business Cycles (4)
 - ECON 480. Introduction to Mathematical Economics (4)
 - ECON 490. Introduction to Econometrics (4)

B.A. IN ECONOMICS - SOCIAL SCIENCE CREDENTIAL OPTION

Requirements (125-126 units)

Total units required for graduation: 180

This subject matter preparation program prepares students for admission to the credential program to teach economics and social science in California public schools. For information about the professional education component or admission to the teacher education program, contact the Center for Assisting Students in Education (C.A.S.E.).

Requirements for the B.A. in Economics - Social Science Credential Option:

Lower-division requirements (69 units)

1. ANTH 102. Introduction to Anthropology: Culture and Society (4)
 2. Four units chosen from:
 - ANTH 140. World Civilization I, the Rise of Civilization (4)
 - HIST 140. World Civilization I, the Rise of Civilization (4)
 3. ECON 104. Economics of Social Issues (4)
 4. ECON 200. Principles of Microeconomics (4)
 5. ECON 202. Principles of Macroeconomics (4)
 6. Four units chosen from:
 - GEOG 100. Introduction to Human Geography (4)
 - SSCI 165. Regions and Peoples of the World (4)
 7. GEOG 103. Physical Geography (5)
 8. HIST 142. World Civilizations II, the Civilizations of the East and West (4)
 9. HIST 144. World Civilization III, the Expansion of Europe (4)
 10. HIST 200. U.S. History to 1877 (4)
 11. HIST 201. U.S. History, 1877 to the Present (4)
 12. Four units chosen from:
 - PHIL 192. Introduction to Philosophy of Religion (4)
 - PHIL 193. Introduction to Eastern Philosophy (4)
 13. Four units chosen from:
 - MSCI 210. Applied Business Statistics (4)
 - MATH 305. Statistics: Hypothesis Testing and Estimation (4)
 14. MATH 110. College Algebra (4)
 15. PSCI 203. American Government (4)
 16. PSYC 100. Introduction to Psychology (4)
 17. SOC 100. The Study of Society (4)
- Upper-division requirements (56 or 57 units)
1. ECON 300. Intermediate Macroeconomics (4)
 2. ECON 302. Intermediate Microeconomics (4)
 3. ECON 421. Economic History of the United States (4)
 4. ECON 500. History of Economic Thought (4)
 5. ECON 510. Economics in the Classroom (4)
 6. Four units chosen from:
 - ECON 420. Comparative Economic Systems (4)
 - ECON 435. Multinational Corporations (4)
 - ECON 450. Economic Development (4)
 7. Four or five units chosen from:
 - ECON 335. Economic Analysis with Microcomputers (5)
 - ECON 360. Economics of the Environment (4)
 - ECON 410. Money and Banking (4)
 - ECON 430. International Economics (4)
 8. Four units chosen from:
 - ECON 333. Political Economy of Women (4)
 - ECON 352. Political Economy of Poverty and Discrimination (4)
 - ECON 445. Political Economy (4)
 - ECON 520. Social Economics (4)
 9. GEOG 302. Geography of California (4)
 10. HIST 370. History of California (4)
 11. PSCI 330. State and Local Government (4)
 12. Four units chosen from:
 - ANTH 354. Cultures of Mexico and Central America (4)
 - ANTH 356. Cultures of South America (4)
 - ANTH 357. African Societies (4)
 - ANTH 358. Peoples of the Middle East (4)
 - GEOG 310. Area Study: Africa (4)
 - GEOG 321. Area Study: Latin America (4)
 - HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
 - HIST 307. Modern Europe, 1815 to the Present (4)
 - HIST 410. Hitler's Europe (4)
 - HIST 430. China, 1895-Present (4)
 - HIST 434. East Asia Since World War II (4)
 - HIST 440. Japan, 1868-Present (4)
 - HIST 465. Modern Central America (4)
 - HIST 470. Modern Latin America (4)
 - HIST 503. Europe Since 1945 (4)
 - PSCI 300. Western Political Systems (4)
 - PSCI 306. Developing Political Systems (4)
 - PSCI 308. Government and Politics of the Middle East (4)
 - SOC 382. Sociology of the Third World (4)

13. Four units chosen from:

- HIST 350. The America Colonies, 1607-1783 (4)
 HIST 351. The Evolution of American Democracy, 1783-1840 (4)
 HIST 354. Civil War and Reconstruction (4)
 HIST 356. The United States, 1877-1917 (4)
 HIST 357. The United States, 1917-1945 (4)
 HIST 359. The United States Since 1945 (4)
 HIST 540. Constitutional History of the United States (4)
 HIST 556. Foreign Relations of the United States (4)

14. Four units chosen from:

- HUM 325. Perspectives on Gender (4)
 HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 HUM 350. The Cultures of American Childhood (4)
 HUM 370. African Heritage in the Arts (4)
 HUM 380. Comparative Studies in the Arts: East and West (4)
 NSCI 325. Perspectives on Gender (4)
 SSCI 316. Race and Racism (4)
 SSCI 325. Perspectives on Gender (4)
 SSCI 350. Roots of Modern Racism in America (4)

MINOR IN ECONOMICS**Requirements (28 units)****Requirements for a minor in Economics:**

Lower-division requirements (8 units)

- ECON 200. Principles of Microeconomics (4)
- ECON 202. Principles of Macroeconomics (4)

Upper-division requirements (20 units)

- Four units chosen from:
 ECON 300. Intermediate Macroeconomics (4)
 ECON 410. Money and Banking (4)
- Four units chosen from:
 ECON 430. International Economics (4)
 ECON 435. Multinational Corporations (4)
 ECON 450. Economic Development (4)
- Twelve units of upper-division economics courses to be chosen in consultation with an advisor.

MINOR IN POLITICAL ECONOMY**Requirements (28 units)****Requirements for a minor in Political Economy:**

Lower-division requirements (4 units)

- ECON 202. Principles of Macroeconomics (4)

Upper-division requirements (24 units)

- ECON 445. Political Economy (4)
- ECON 520. Social Economics (4)
- Sixteen units chosen from:
 ECON 333. Political Economy of Women (4)
 ECON 352. Political Economy of Poverty and Discrimination (4)
 ECON 390. Selected Topics in Economics (4)
 ECON 421. Economic History of the United States (4)
 ECON 500. History of Economic Thought (4)

ECON 590. Seminar in Economics (4)
 or other upper-division courses chosen in consultation with an advisor.

BUSINESS ECONOMICS CONCENTRATION

The College of Business and Public Administration offers a concentration in business economics within its Bachelor of Arts degree. Refer to [Page 79](#) for details.

DEPARTMENTAL HONORS

Departmental honors will be awarded upon graduation to students majoring in economics who have:

- Earned a 3.5 grade point average in all economics courses attempted at this university;
- Completed at least half of all work in economics at this university;
- Been recommended for departmental honors by economics faculty.

Students who qualify for departmental honors are strongly encouraged to discuss with their faculty advisor the possibility of enrolling in ECON 597. Senior Honors Project.

OMICRON DELTA EPSILON

Students who have completed a minimum of 20 quarter units of economics course work with a grade point average of at least 3.0 ("B") and who also have an overall grade point average of at least 3.0 may join the university's chapter of Omicron Delta Epsilon, the national honor society in economics. Additional information can be obtained from the Department of Economics.

COURSE OFFERINGS IN ECONOMICS (ECON)**Lower Division****104. Economics of Social Issues**

Economic perspectives on social issues. Cannot be counted toward fulfillment of requirements in the economics major. (GE=D.4) (4 units)

T. For students in the B.A. in Liberal Studies, Accelerated Track. Instructor will model teaching methods suitable to a kindergarten through college classroom. ECON 104T cannot be counted toward fulfillment of the requirements for the B.A. in Economics. (4 units)

200. Principles of Microeconomics

Introduction to the economic principles which govern production, exchange, the pricing of goods, services and resources and the distribution of incomes in competitive and noncompetitive markets. (ECON 200=CAN ECON 4) (4 units)

202. Principles of Macroeconomics

Introduction to the theory of national income determination with particular emphasis on employment and unemployment, price levels, monetary and fiscal policies, international economic issues and theories of economic growth. (ECON 202=CAN ECON 2) (4 units)

250. Statistics for Economists

Introduction to the statistical tools and data used by economists. Three hours lecture and two hours laboratory. Prerequisite: MATH 110. (4 units)

Upper Division**300. Intermediate Macroeconomics**

Analysis of the problems of measurement and determination of levels of national income, and investigation of macroeconomic policy issues including inflation and unemployment. Prerequisites: ECON 200, 202 and MATH 110. (4 units)

302. Intermediate Microeconomics

Detailed analysis of economic behavior of consumers and producers in competitive and noncompetitive markets, and of the criteria for achieving optimality in the allocation and use of resources. Prerequisites: ECON 200, 202 and MATH 110. (4 units)

322. Managerial Economics

Application of microeconomic theory and analysis to business and administrative problems. Prerequisites: ECON 200, 202, 335 and MATH 110. (4 units)

333. Political Economy of Women

Examination of women's economic status. History of women of various races in the U.S. political economy. Exploration of alternative policies. (4 units)

335. Economic Analysis with Microcomputers

Formulation and construction of computer models using economics concepts and principles. Application of models to various economic phenomena, deriving solutions under alternative assumptions. Four hours lecture and two hours laboratory. Prerequisites: ECON 200, 202 and MATH 110. (5 units)

340. Advanced Economic Analysis with Microcomputers

Application of sophisticated computer software for purposes of economic analysis and modeling. Prerequisite: ECON 335 or consent of instructor. (4 units)

352. Political Economy of Poverty and Discrimination

An exploration of the causes of poverty and discrimination in the United States. Historical examination of the policies addressing poverty and discrimination. Analysis of alternative policies. (GE=G.2) (4 units)

360. Economics of the Environment

Economic causes and implications of air and water pollution, urban congestion, natural resource depletion and population growth; examination of the economic impacts of alternative forms of environmental control and protection. (4 units)

372. Business Cycles

Causes and nature of business fluctuations. Application of macroeconomic theory and cyclical indicators to detect changes in the U.S. economy using the microcomputer as a forecasting tool. Four hours lecture and two hours laboratory. Prerequisites: ECON 200, 202, 335 and MATH 110. (5 units)

390. Selected Topics in Economics

Examination of selected topics of current interest in economics. May be repeated for credit as topics change. (4 units)

410. Money and Banking

Demand for money, creation and manipulation of the money supply, and the role of banking and other financial institutions in the United States in determining the level of employment, prices and international payments equilibrium. (4 units)

420. Comparative Economic Systems

Analysis of major contemporary economic systems including command, market-socialism and free-enterprise economies. (4 units)

421. Economic History of the United States

Economic history of the United States from the founding of the colonies to the present. (4 units)

430. International Economics

Theories of the causes and effects of trade between nations. Study of government policies which alter the pattern of trade between nations. Prerequisites: ECON 200, 202 and 302 or consent of instructor. (4 units)

435. Multinational Corporations

Multinational corporations and the international economic environment in which they operate. Topics include the international monetary system, balance of payments, international capital movements, foreign direct investment, technology transfer, and conflicts between multinational corporations and host countries. Prerequisites: ECON 200 and 202. (4 units)

445. Political Economy

Introduction to economic theories which have their heritage in the work of Karl Marx. Topics may include historical materialism, value theory, crisis theory, imperialism, the labor process, and social structures of accumulation. (4 units)

450. Economic Development

Economic problems confronting developing countries; policies hypothesized to achieve desired rates of economic development in these areas. (4 units)

460. Labor Economics

Micro- and macroeconomic aspects of labor markets including the workings of labor markets in competitive and non-competitive markets, structure and causes of unemployment, incomes policies, and selected institutional topics including the economics of U.S. labor movements. Prerequisite: ECON 200. (4 units)

475. Public Finance

Rationale for government actions in an economy which emphasizes private sector allocation; principles of taxation, theories of tax incidence, expenditure evaluation, government sources and uses of revenue, and government budgeting. Prerequisite: ECON 200 or consent of instructor. (4 units)

480. Introduction to Mathematical Economics

Application of mathematical concepts and techniques to economic models of optimization by consumers and producers, to models of price determination and to the study of input-output techniques. Prerequisites: ECON 200 and MATH 211. (4 units)

490. Introduction to Econometrics

Various statistical methods of testing economic hypotheses. Prerequisites: ECON 200, 202, MATH 110, and ECON 250 or MSCI 210, or equivalent. (4 units)

500. History of Economic Thought

Survey of the development of economic doctrines and analyses and concurrent intellectual and social history with emphasis on the ideas of landmark economists from Adam Smith to John Maynard Keynes. (4 units)

503. Economic Analysis

An intensive introduction to micro- and macroeconomic concepts for graduate students. Not open to students who have received credit for ECON 200 and 202. Formerly ECON 305. Prerequisite: graduate standing. (4 units)

510. Economics in the Classroom

Economics method of analysis as it applies to contemporary problems. Designed for K-12 teachers. May not be counted toward fulfilling requirements for the economics major. Formerly ECON 310. (4 units)

520. Social Economics

Study of the social, cultural, and political context of economic behavior. Primary focus on the work of Social Economists, Institutionalists, and Post Keynesians. Formerly ECON 447. (4 units)

575. Internship in Economics

Supervised work in public or private organizations emphasizing practical applications of economic concepts and relationships. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken. (4 units)

590. Seminar in Economics

Intensive study of some phase of economics. May be repeated for credit as subject matter changes and with consent of instructor. (4 units)

595. Independent Study

Investigation of special topics not covered by the department's curricular offerings. A total of eight units in ECON 595 may be applied toward the major and graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

597. Senior Honors Project

Original research in an area of economics, culminating in a major report receiving approval of the economics faculty. Enrollment limited to students whose formal application for admission to the course has been approved by the department chair. (4 units)

Graduate level courses can be found on [Page 407](#).

EDUCATION

College of Education

Faculty Office Building, Room 182
880-5600

Basic Teaching Credential Programs

Multiple Subject Crosscultural, Language and Academic Development (CLAD)

Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD)

Multiple Subject Credential (Intern Track) with a Crosscultural, Language and Academic Development (CLAD) or Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD)

Single Subject (CLAD)

Single Subject (CLAD) (Intern Track)

Designated Subjects

Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities

(This credential can be found on Page 428.)

Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities

(This credential can be found on Page 429.)

Preliminary Level I Education Specialist Credential: Moderate/Severe Disabilities

(This credential can be found on Page 430.)

Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities

(This credential can be found on Page 431.)

Internship Education Specialist Credential: Mild/Moderate Disabilities

(This credential can be found on Page 432.)

Master of Arts in Education

Bilingual/Cross-Cultural

Career and Technical Education

Curriculum and Instruction

Environmental Education

Health Education

Instructional Technology

Kinesiology

Language, Literacy and Culture (Primary Language)

Middle Grades Education

Reading/Language Arts

Secondary Education with History, English or Spanish Specializations

Special Education

Teaching English to Speakers of Other Languages

(Degree requirements can be found on Page 408.)

Master of Arts

Educational Administration

(Degree requirements can be found on Page 456.)

Interdisciplinary Studies: Integrative Studies in Education

(Degree requirements can be found on Page 475.)

Rehabilitation Counseling

(Degree requirements can be found on Page 502.)

Master of Science

Counseling and Guidance

(Degree requirements can be found on Page 400.)

Specialist and Services Credential Programs

Adapted Physical Education Specialist

Administrative Services Preliminary

Administrative Services Preliminary (Internship)

Administrative Services Professional

Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities

Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities

Preliminary Level I Education Specialist Credential: Moderate/Severe Disabilities

Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities

Internship Education Specialist Credential: Mild/Moderate Disabilities

Pupil Personnel Services: School Counseling

Pupil Personnel Services: School Psychology

Pupil Personnel Services: Social Work

Reading/Language Arts Specialist

School Nurse

Supervision and Coordination of Designated Subjects Programs

(Credential requirements can be found on Page 426.)

Certificate Programs

Community College Counseling

Crosscultural, Language and Academic Development (CLAD)

Education of the Gifted and Talented

Educational Computing

Educational Professional Services

Educational Technology

Environmental Education

Middle Grade Education

Reading/Language Arts Rehabilitation Counseling

Remedial Education in the Elementary School

School Business Management

Study Strategy Instruction for Secondary Schools

(Certificate requirements can be found on Page 437.)

Specialist Certificate Program

Resource Specialist in Special Education

(Specialist certificate requirements can be found on Page 440.)

Vocational Education

Bachelor of Vocational Education

Bachelor of Science

(Degree requirements can be found on Page 355.)

Division of Teacher Education

Credentials Office (C.A.S.E.)

Chaparral Hall, Room 123, 880-5609

Masters Program Office and Advanced Credentials

University Hall, Room 171, 880-5293

Multiple Subject

Faculty Office Building, Room 125, 880-5650

Single Subject

Faculty Office Building, Room 125, 880-5650

Supervision Office

Faculty Office Building, Room 130, 880-5698

Department of Educational Leadership and Curriculum

University Hall, Room 401.19, 880-7404

FACULTY: Alexander Aitchison, Susan Daniels, Lois Detrick, Cheryl Fischer (Chair), James Green, Juan Gutierrez, Irv Howard, Ellen Kronowitz, Ken Lane, Angela Louque, Ruth Norton, Lane Rankin, Deborah Stine, Al Wolf

MASTERS: Curriculum and Instruction, Middle Grades Education, Educational Administration

Department of Educational Psychology and Counseling

University Hall, Room 401.24, 880-5606

FACULTY: Richard Ashcroft, Susan Brotherton, Margaret Cooney, Esteban Diaz, Louis Downs, Tom Gehring, Young Suk Hwang, Todd Jennings, Camille Mayers, Ruth Sandlin (Chair), Donna Schnorr, Sue Spitzer, Dwight Sweeney, Joseph Turpin, Michael Verdi, Dudley Wiest

MASTERS: Counseling and Guidance, Rehabilitation Counseling

Department of Language, Literacy and Culture

Faculty Office Building, Room 138, 880-7405

FACULTY: Maria Balderrama, Sam Crowell, Lynne Diaz-Rico, Barbara Flores, Rosalie Giacchino-Baker, Jose Hernandez, Sherry Howie, Ken Johns, Robert London, Joanna Marasco, Corinne Martinez, Patrick Mullen, Enrique Murillo, Judy Rymer, Mary Jo Skillings (Chair), Alayne Sullivan, Gail Thompson, Nena Torrez, Kathy Weed, Laura Young

MASTERS: Bilingual/Cross-Cultural; Language, Literacy and Culture (Primary Language); Reading/Language Arts; Teaching English to Speakers of Other Languages

Department of Science, Mathematics and Technology Education

Chaparral Hall, Room 107, 880-5290

FACULTY: Bonnie Brunkhorst, Herbert Brunkhorst (Chair), Joseph Jesunathadas, Amey Leh, James Mason, Ron Pendleton, Iris Riggs, Rowena Santiago, Joseph Scarcella, Darleen Stoner, Jan Woerner

MASTERS: Career and Technical Education, Environmental Education, Instructional Technology

B.S./B.V.E.: Vocational Education

Department of Special Education

University Hall, Room 403, 880-5606

FACULTY: Carolyn Eggleston, Barbara Larrivee, Marjorie McCabe, Jeff McNair (Chair), Gary Negin, Ann Selmi, Stanley Swartz

MASTERS: Special Education

The College of Education offers course work designed to prepare students for a variety of careers in education. At the present time, the university is approved to offer the following credentials through the Multiple Subject Teaching Credential Program and the Single Subject Teaching Credential Program:

- **Multiple Subject Crosscultural, Language and Academic Development (CLAD) Credential** for teaching in a self-contained classroom (K-12),
- **Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) Credential** for teaching in a self-contained classroom (K-12),
- **Multiple Subject Crosscultural, Language and Academic Development (CLAD) or Multiple Subject Bilingual Crosscultural, Language and Academic Development (BCLAD) Credential** (intern track) for teaching in a self-contained classroom (K-12),
- **Single Subject Credential** with a crosscultural, language and academic development emphasis (CLAD) for teaching a single subject in a departmentalized school (all grades),
- **Single subject credential (CLAD intern track)** for teaching a single subject in a departmentalized school (all grades),
- **Designated subjects teaching credential** for technical, trade or vocational subjects or adult education. For information concerning the Bachelor of Vocational Education and the Bachelor of Science in Vocational Education see [Page 355](#).

In general, students electing to pursue an emphasis in elementary teaching should undertake one of the multiple subject credentials. Students wishing to follow an emphasis in secondary teaching should pursue the single subject credential.

Information on graduate programs in education can be found in the graduate studies section beginning on [Page 408](#). These include the master of arts in education, specialist and services credential programs, certificate programs and specialist certificate programs.

The college offers a program leading to the Bachelor of Vocational Education and the Bachelor of Science in Vocational Education. Further information about these degrees is provided on [Page 355](#).

BASIC TEACHING CREDENTIALS

Students preparing to become bilingual education teachers or those who desire to teach in bilingual cross cultural and academic development programs should be aware that Proposition 227 requires all students in public schools be taught in English unless a school has received a waiver. The CSU prepares teachers for positions in California as well as other states. It is in the student's best interest to be knowledgeable about credential or licensure requirements of the state in which they intend to teach.

MULTIPLE SUBJECT CROSS-CULTURAL, LANGUAGE, AND ACADEMIC DEVELOPMENT (CLAD) CREDENTIAL PROGRAM

Requirements (48 units)

Admission to the university must precede admission to the basic credential program. In preparation for admission to the basic credential program, students must purchase the "Multiple Subject Credential Program Handbook" at the Coyote Bookstore and attend an orientation session scheduled through the Teacher Education Office. At this orientation, students will be assigned an education advisor and receive instructions for completing their Program Admission Files (PAF). For admission to the program, students must have successfully completed or be currently enrolled in EELB 331 or an equivalent upper-division child development course such as PSYC 320.

Admission to the Program

During the quarter that students are enrolled in Phase I coursework (EELB 321, 332, 441, and/or 445), they must submit a Program Admission File (PAF). The PAF is to be submitted to C.A.S.E. during the first quarter in which students are enrolled in program classes. For students desiring Student Teaching or Intern Supervision, the PAF is due no later than the third week of the quarter prior to the expected supervision quarter.

Students are advised to complete the required California Basic Educational Skills Test (CBEST) and, if necessary, the PRAXIS series examination (credential must be completed within five years of taking the examination). Students must provide verification of passing scores on these exams when they apply for admission to supervision.

Admission to the basic credential program as part of the PAF is based on the following criteria and conditions:

1. Completion of an application form;
2. Two written recommendations, at least one from faculty members in the student's major department;
3. Meet with and obtain signature of assigned education advisor on advising form and complete the teacher education interview. The following criteria are used to assess the interview: professional aptitude, personality and character, oral and written language usage, and many-sided interests;
4. Verification of a negative tuberculin examination within the last 4 years;
5. Academic achievement, verified through transcripts:
 - A. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
 - B. Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B-."

No candidate may be recommended for the credential who has received a grade of lower than "C" (2.0) in any non-education course required for the credential, such as health science courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

6. One of the following:
 - A. Completion of at least 4/5 of the units required for the Liberal Studies/American Studies, Track II/Human Development, Track II major as offered on this campus and verified in writing by the Liberal Studies/American Studies, Track II/Human Development, Track II coordinator, or a California-approved subject matter preparation program from another campus, OR
 - B. Written verification of registration for or passing score on the PRAXIS series examination (this option is required for those students who do not have a California-approved subject matter preparation program);
7. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
8. Completion of or concurrent enrollment in the upper-division writing requirement at the university, or the equivalent graduation requirement at another accredited institution, or a passing score on the CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST (CBEST exam does not meet the graduate entrance writing requirement for the Master of Arts degree);
9. Written verification that the California Basic Educational Skills Test (CBEST) has been taken or passing score on CBEST;
10. Satisfactory completion of or enrollment in EELB 331 or an equivalent upper-division child development course, such as PSYC 320.

Admission to Supervised Student Teaching

One quarter in advance of the time students intend to enroll in supervised student teaching (EELB 450A), students must submit an application for supervision. This application is due by Friday of the third week of the quarter prior to enrolling in supervised student teaching. (No applications are accepted in the summer quarter.)

Admission to supervised student teaching is based on the following criteria and conditions:

1. Completion of an application form;
2. One of the following:
 - A. Completion of at least 4/5 of the units required for the Liberal Studies/American Studies, Track II/Human Development, Track II major as offered at this campus and verified in writing by the Liberal Studies/American Studies, Track II/Human Development, Track II coordinator or a California-approved subject matter preparation program from another campus, OR
 - B. Verification that the applicant has passed the PRAXIS series examination;
3. Verification that the applicant has passed the California Basic Educational Skills Test (CBEST);
4. Satisfactory completion of an upper-division child development course (such as EELB 331 and PSYC 320) and Phase I coursework (EELB 321, 332, 441 and 445) with a grade point average of 3.0 ("B") and no course grade lower than "B-";
5. Verification of a negative tuberculin examination within the last 4 years;

6. Completion of the upper-division writing requirement at this university, or the equivalent graduation requirement at another accredited institution, or a passing score on the CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST.

All course work taken at another college more than seven years ago, is subject to approval by the director of the Multiple Subject Program. No more than 14 units of the credential program may be transferred. Student teaching is never transferable.

Each applicant is reviewed in terms of all of the above criteria and conditions and must be at least of senior standing. Student teaching for the credential is a full-time assignment for one quarter each of EELB 450A (and 333 and 443) and EELB 450B (and 447 and 449). No concurrent course work should be taken beyond the required elementary education courses without permission of the program director.

Students who fail to complete EELB 333, 443, 447, 449, 450A or 450B will be denied continuation in the program. An appeal process is available. Consult the program director for details.

Program prerequisite or corequisite (4 units)

- Students entering the program must have successfully completed or be currently enrolled in EELB 331 or an equivalent upper-division course in child development, such as PSYC 320.

Credential Requirements (48 units)

Completion of the following course work with a grade point average of 3.0 ("B") with no course grade lower than "B-."

Phase I

- EELB 321. Culture and Schooling (4)
- EELB 332. Educational Psychology for a Diverse Society (4)
- EELB 441. Mathematics Curriculum and Methods in the Elementary School (4)
- EELB 445. Reading/Language Arts Curriculum and Methods in the Elementary School (4)

Phase II

First quarter of student teaching

- EELB 333. Curriculum and Instruction for a Diverse Society (4)
- EELB 443. Science Curriculum and Methods in the Elementary School (4)
- EELB 450A. Supervised Student Teaching in Multiple Subject (8)

Phase III

Second quarter of student teaching

- EELB 447. Social Studies/Humanities Curriculum and Methods in the Elementary School (4)
- EELB 449. Literacy and Second Language Acquisition in the Elementary School (4)
- EELB 450B. Supervised Student Teaching in Multiple Subject (8)

Additional Requirements

Students must successfully complete:

- One of the following to meet the language requirement:
 - Nine quarter units of college/university course work that emphasizes a language other than English (including American Sign Language) with a grade of "C" or better.
 - A university foreign language course at the intermediate (150) level.
 - Equivalent experiences as defined by CCTC (e.g. living in a country whose language is other than English) that sensitizes the candidate to the challenges of second language learning and acquisition.
- One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):
 - HIST 146. American Civilization (4)
 - HIST 200. United States History to 1877 (4)
 - HIST 540. Constitutional History of the United States (4)
 - PSCI 203. American Government (4)
 - PSCI 410. American Constitutional Law (4)
 - PSCI 411. The Bill of Rights (4)
- The Reading Instruction Competence Assessment (RICA) exam with a passing score.

Upon successfully completing the program and additional requirements above, candidates are eligible to apply for a basic preliminary credential.

Within five years candidates must complete a fifth year of study (45 quarter units of approved upper-division and/or graduate course work beyond the Bachelor of Arts). Continuing Education Units (CEU) are not applicable to the 45 quarter unit requirement. Students must also meet the health education, special education and computer literacy requirements (listed below) to obtain a professional clear credential.

Health education, special education and computer literacy requirements:

- To fulfill the health education requirement students must take A and B below:
 - One of the following courses to fulfill the drug/alcohol, tobacco and nutrition requirement (with a grade of "C" or better):
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
 - HSCI 440. Family Health Issues for Educators (4)
 - Verification of current and valid CPR certification for infant/adolescent/adults.
- The following to fulfill the special education requirement (with a grade of "B-" or better):
 - ESPE 530. Psychology and Education of Exceptional Individuals (4)
- The following are required to fulfill the computer literacy requirement (with grades of "B-" or better):
 - ETEC 537. Introduction to Computer Technology in Education (2)
 - ETEC 546. Computer Based Technology in Education (4)

Note: Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential in the Teacher Education Office.

MULTIPLE SUBJECT BILINGUAL, CROSSCULTURAL, LANGUAGE AND ACADEMIC DEVELOPMENT (BCLAD) CREDENTIAL

Admission to the university must precede admission to the basic credential program. In preparation for admission to the basic credential program, students must purchase the "Handbook for the Multiple Subject Credential Programs" in the Coyote Bookstore and attend an orientation session scheduled through the Teacher Education Office. At this orientation, students will be assigned an education advisor and receive instructions for completing their Program Admission File (PAF). For admission to the program, students must have successfully completed or be currently enrolled in EELB 331 or an equivalent upper-division child development course such as PSYC 320.

Admission to the Program

During the quarter that students are enrolled in Phase I coursework (EELB 321, 332, 441 and/or 446), they must submit a Program Admission File (PAF). The PAF is submitted to C.A.S.E. during the first quarter in which students are enrolled in program courses. For students desiring student teaching or intern supervision, the PAF is due no later than the third week of the quarter prior to the expected supervision.

Students are advised to complete the required California Basic Educational Skills Test (CBEST) and if necessary, the PRAXIS series examination (credential must be completed within five years of taking the examination). Students must provide verification of passing scores on these exams when they apply for admission to Student Teaching.

Admission to the basic credential program is based on the following criteria and conditions:

1. Completion of application form;
2. Two written recommendations, at least one from faculty members in the student's major department;
3. Meet with and obtain signature of assigned education advisor on advising form and complete the teacher education review. The following criteria are used to assess the interview: professional aptitude, personality and character, oral and written language usage, and many-sided interests;
4. Verification of a negative tuberculin examination within the last 4 years;
5. Academic achievement, verified through transcripts:
 - A. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
 - B. Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B-."

No candidate may be recommended for the credential who has received a grade lower than "C" (2.0) in any non-education course required for the credential, such as health science courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

6. One of the following:
 - A. Completion of 4/5 of the units required for the Liberal Studies/American Studies, Track II/Human Development, Track II major as offered on this campus and verified in writing by the Liberal Studies/American Studies, Track II/Human Development, Track II coordinator, or a California-approved subject matter preparation program from another campus,
OR
 - B. Written verification of registration for or passing score on the PRAXIS series examination. (This option is required for those students who do not have a California-approved subject matter preparation program.)
7. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
8. Completion of or concurrent enrollment in the upper-division writing requirement at this university or the equivalent graduation requirement at another accredited institution, or a passing score on the CSUSB Writing Requirement Exemption Evaluation (WREE) or a passing score on the written portion of the CBEST (CBEST exam does not meet the graduate writing requirement for the Master of Arts degree.);
9. Written verification that the California Basic Educational Skills Test (CBEST) has been taken or passing score on CBEST;
10. Satisfactory completion or enrollment in EELB 331 or an equivalent upper-division child development course, such as PSYC 320.

Admission to Student Teaching

One quarter in advance of the time students intend to enroll in student teaching (EELB 450A), students must submit an application for student teaching. This application is due by Friday of the third week of the quarter prior to enrolling in student teaching. (No applications are accepted in the summer quarter.)

Admission to student teaching is based on the following criteria and conditions:

1. Completion of an application form;
2. One of the following:
 - A. Completion of 4/5 of the units required for the Liberal Studies/American Studies, Track II/Human Development, Track II major as offered at this campus and verified in writing by the Liberal Studies/American Studies, Track II/Human Development, Track II coordinator or a California-approved subject matter preparation program from another campus,
OR
 - B. Verification that the applicant passed the PRAXIS series examination.
3. Verification that the applicant has passed the California Basic Educational Skills Test (CBEST);

- Satisfactory completion of an upper-division child development course (such as EELB 331 and PSYC 320) and Phase I coursework (EELB 321, 332, 441 and 446) with a grade point average of 3.0 ("B") and no course grade lower than "B-;"
- Verification of a negative tuberculin examination within the last 4 years;
- Completion of the upper-division writing requirement at this university or the equivalent graduation requirement at another accredited institution, a passing score on CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST.

All course work taken at another college, or more than seven years ago, is subject to approval by the coordinator of the multiple subject program. No more than 14 units of the credential program may be transferred. Student teaching is never transferable.

Each applicant is reviewed in terms of all of the above criteria and conditions and must be at least of senior standing. Student teaching for the credential is a full-time assignment for one quarter each of EELB 450A (and 333 and 443) and 450B (and 448 and 449). No concurrent course work should be taken beyond the elementary education courses without permission of the program director.

Students who fail to complete EELB 333, 443, 448, 449, 450A or 450B successfully will be denied continuation in the program. An appeal process is available. Consult the program director for details.

Program prerequisite or corequisite (4 units)

- Students entering the program must have successfully completed or be currently enrolled in EELB 331 or an equivalent upper-division child development course, such as PSYC 320.

Credential Requirements (48 units)

Completion of the following course work with a grade point average of 3.0 ("B") with no course grade lower than "B-."

Phase I

- EELB 321. Culture and Schooling (4)
- EELB 332. Educational Psychology for a Diverse Society (4)
- EELB 441. Mathematics Curriculum and Methods in the Elementary School (4)
- EELB 446. Reading/Language Arts (Primary Language) Curriculum and Methods in the Elementary School (4)

Phase II

First quarter of student teaching

- EELB 333. Curriculum and Instruction for a Diverse Society (4)
- EELB 443. Science Curriculum and Methods in the Elementary School (4)
- EELB 450A. Supervised Student Teaching in Multiple Subject (8)

Phase III

Second quarter of student teaching

- EELB 448. Social Studies/Humanities (Primary Language) Curriculum and Methods in the Elementary School (4)
- EELB 449. Literacy and Second Language Acquisition in the Elementary School (4)

- EELB 450B. Supervised Student Teaching in Multiple Subject (8)

Additional Requirements

Students must successfully complete:

- Both of the following:
 - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 - SPAN 415. Comparative Linguistics: Spanish/English (4) (This course has prerequisites.)
- One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):
 - HIST 146. American Civilization (4)
 - HIST 200. United States History to 1877 (4)
 - HIST 540. Constitutional History of the United States (4)
 - PSCI 203. American Government (4)
 - PSCI 410. American Constitutional Law (4)
 - PSCI 411. The Bill of Rights (4)
- The Reading Instruction Competence Assessment (RICA) exam with a passing score.

Upon successfully completing the program and additional requirements above, candidates are eligible to apply for a basic preliminary credential.

Within five years candidates must complete a fifth year of study (45 quarter hours of approved upper-division and/or graduate course work beyond the Bachelor of Arts). Continuing Education Units (CEU) are not applicable to the 45 quarter unit requirement. Students must also meet the health education, special education and computer literacy requirements (listed below) to obtain a professional clear credential.

Health education, special education and computer literacy requirements:

- To fulfill the health education requirement students must take A and B below:
 - A. One of the following courses to fulfill the drug/alcohol, tobacco and nutrition requirement (with a grade of "C" or better):
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
 - HSCI 440. Family Health Issues for Educators (4)
 - B. Verification of current and valid CPR certification for infant/adolescent/adults.
- The following to fulfill the special education requirement (with a grade of "B-" or better):
 - ESPE 530. Psychology and Education of Exceptional Individuals (4)
- The following are required to fulfill the computer literacy requirement (with grades of "B-" or better):
 - EETC 537. Introduction to Computer Technology in Education (2)
 - EETC 546. Computer Based Technology in Education (4)

Note: Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential in the Teacher Education Office.

MULTIPLE SUBJECT CREDENTIAL (INTERN TRACK) with a Crosscultural, Language and Academic Development Emphasis (CLAD) OR Bilingual, Cross-cultural Language and Academic Development Emphasis (BCLAD) Requirements (60 units)

The multiple subject internship is an alternate track for those students who have been placed in an employment setting. Specific admission requirements must be met beyond those of the basic credential program and additional course work for students in this track is required.

Admission to the university must precede admission to this basic credential program. In preparation for admission to the basic credential program, students must purchase the "Handbook for the Multiple Subject Credential Programs" (at the Coyote Bookstore) and attend an orientation session scheduled through the Teacher Education Office. At this orientation, students will be assigned an education advisor and receive instructions for completing their Program Admission File (PAF).

For admission to the program, students must have successfully completed or be currently enrolled in EELB 331 or an equivalent upper-division child development course such as PSYC 320.

Admission to the Program

During the quarter that students are enrolled in Phase I course work (EELB 321, 332, 441, 551 and/or 445 (446 for BCLAD), students must submit a Program Admission File (PAF). The PAF is to be submitted to C.A.S.E. during the first quarter in which students are enrolled in program classes.

Students are advised to complete the required California Basic Educational Skills Test (CBEST) and, if necessary, the PRAXIS series examination (credential must be completed within five years of taking the examination). Students must provide verification of passing scores on these examinations when they apply for admission to supervised intern teaching.

Admission to the basic credential program, as part of the PAF, is based on the following criteria and conditions:

1. Completion of an application form;
2. Two written recommendations, at least one from current employer;
3. Meet with and obtain signature of assigned education advisor on advising form and complete the teacher education interview. The following criteria are used to assess the interview: professional aptitude, personality and character, oral and written language usage, and many-sided interests;
4. Verification of a negative tuberculin examination within the last 4 years;
5. Academic achievement verified through transcripts:
 - A. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 90 quarter units attempted;

- B. Applicants must maintain a grade point average of 3.0 in professional education course work, with no course grade in this area lower than "B;"

No candidate may be recommended for the credential who has received a grade of less than "C" (2.0) in any non-education course required for the credential, such as health science courses. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement;

6. One of the following:
 - A. Completion of an approved subject matter preparation program at CSUSB (Liberal Studies/American Studies, Track II/Human Development, Track II major) and verified in writing by the Liberal Studies coordinator, American Studies, Track II coordinator, Human Development, Track II coordinator,
 - B. Completion of an approved subject matter preparation program on another California campus, verified in writing by the appropriate administrator,
 - C. Completion of at least 4/5 of the units required for the Liberal Studies/American Studies, Track II/Human Development, Track II major and verified in writing by the appropriate coordinator,
 - D. Written verification of a passing score on the PRAXIS series examination; (This option is required for those students who do not have a California-approved subject matter preparation program.)
 7. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
 8. Completion of the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a passing score on the CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST; (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)
 9. Written verification of a passing score on the California Basic Educational Skills Test (CBEST);
 10. One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):

HIST 146.	American Civilization (4)
HIST 200.	United States History to 1877 (4)
HIST 540.	Constitutional History of the United States (4)
PSCI 203.	American Government (4)
PSCI 410.	American Constitutional Law (4)
PSCI 411.	The Bill of Rights (4)
 11. Completion of a bachelor's degree;
 12. Satisfactory completion of or concurrent enrollment in EELB 331 or an equivalent upper-division child development course such as PSYC 320.
- Each applicant is reviewed in terms of all of the above criteria. The final step involves obtaining employment from one of the approved cooperating school districts. (A listing of these districts is in the "Multiple Subject Credential Programs Handbook.")

Candidates apply for an intern credential once they are admitted to supervised intern teaching and secure a job. The CSUSB Intern Program may begin in any quarter and continues for a maximum time-line of two years.

The intern is employed full time in a teaching assignment in an approved cooperating school district while enrolled in courses at CSUSB. Once admission to the credential program has been granted, students may continue to enroll in program course work.

Program Prerequisite or Corequisite (4 units)

1. Students entering the program must have successfully completed or be currently enrolled in EELB 331 or an equivalent upper-division course in child development, such as PSYC 320.

Phase I

1. EELB 321. Culture and Schooling
2. EELB 332. Educational Psychology for a Diverse Society
3. EELB 441. Mathematics Curriculum and Methods in the Elementary School
4. EELB 551. Internship Seminar I: Classroom Organization, Management and Discipline
5. One of the following two courses:
 - EELB 445. Reading/Language Arts Curriculum and Methods in the Elementary School (CLAD)
 - EELB 446. Reading/Language Arts (Primary Language) Curriculum and Methods in the Elementary School (BCLAD)

Admission to Supervised Intern Teaching

The intern track includes summer course work.

One quarter in advance of the time students intend to enroll in Phase II courses (EELB 443, 447 or 448, 554, 555, and 455A/B/C) they must submit an application for supervised intern teaching. This application is due by Friday of the third week of the quarter prior to enrolling in Phase II. (No applications are accepted in the summer quarter.)

Admission to supervised intern teaching is based on the following criteria and conditions:

1. Completion of an application form;
2. Each applicant must have substantial classroom experience such as an instructional aid, substitute teacher and/or a teacher on an emergency permit. Information about this requirement is available in the "Multiple Subject Credential Programs Handbook" (available at the Coyote Bookstore);
3. Satisfactory completion of Phase I course work with a grade point average of 3.0 ("B") and no course grade lower than "B-;"
4. Verification that applicant holds an internship credential.

All course work taken at another college, or more than seven years ago, is subject to approval by the Director of the Multiple Subject Credential Program. No more than 14 units of the credential program may be transferred. Student/Intern teaching is never transferable.

The intern is employed full time in a teaching assignment in an approved cooperating school district while enrolled in courses at CSUSB. The study plan is as follows:

Phase II: Quarter I

1. EELB 443. Science Curriculum and Methods in the Elementary School (4)
2. EELB 455A. Supervised Intern Teaching in Multiple Subject (8)

Phase II: Quarter 2

1. Four units chosen from:
 - EELB 447. Social Studies/Humanities Curriculum and Methods in the Elementary School (4) (CLAD)
 - EELB 448. Social Studies/Humanities (Primary Language) Curriculum and Methods in the Elementary School (4) (BCLAD)
2. EELB 554. Internship Seminar II: Curriculum and Instruction for a Diverse Society (4)
3. EELB 455B. Supervised Intern Teaching in Multiple Subject (8)

Phase II: Quarter 3

1. EELB 555. Internship Seminar III: Literacy and Second Language Acquisition in the Elementary School (4)
2. EELB 556. Internship Seminar IV: Capstone (2)
3. EELB 455C. Supervised Intern Teaching in Multiple Subject (8) (can only be taken once)

The CSUSB Intern Program begins in the summer or winter quarters and continues for a maximum time-line of two years. Candidates must be prepared to begin course work in June.

Any student who fails one of the above courses must re-take and pass the course within a two-year period.

Additional Requirements

Students must successfully complete:

For CLAD students only:

One of the following to meet the language requirement:

1. Nine quarter units of college/university course work that emphasizes a language other than English (including American Sign Language) with a grade of "C" or better;
2. A university foreign language course at the intermediate level (150);
3. Equivalent experiences (as defined by the CCTC) that sensitize the candidate to the challenges of second language learning and acquisition.

For BCLAD students only:

Both of the following to meet language and culture requirements:

1. HUM 335. The Origin and Contemporary Role of Latino Culture
2. SPAN 415. Comparative Linguistics: Spanish/English (This course has prerequisites.)

For CLAD and BCLAD students:

1. The Reading Instruction Competence Assessment (RICA) exam with a passing score.

Upon successfully completing the program and additional requirements above, candidates are eligible to apply for a basic preliminary Multiple Subject credential.

Within five years candidates must complete a fifth year of study (45 quarter units of approved upper-division and/or graduate course work beyond the Bachelor of Arts). Continu-

ing Education Units (CEU) are not applicable to the 45 quarter unit requirement. Students must also meet the health education, special education and computer literacy requirements (listed below) to obtain a professional clear credential.

Health education, special education and computer literacy requirements:

1. To fulfill the health education requirement students must take A and B below:
 - A. One of the following courses to fulfill the drug/alcohol, tobacco and nutrition requirement (with a grade of "C" or better):
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
 - HSCI 440. Family Health Issues for Educators (4)
 - B. Verification of current and valid CPR certification for infant/adolescent/adults.
2. To fulfill the special education requirement (with grade of "B-" or better):
 - ESPE 530. Psychology and Education of Exceptional Individuals (4)
3. The following are required to fulfill the computer literacy requirement (with grades of "B-" or better):
 - ETEC 537. Introduction to Computer Technology in Education (2)
 - ETEC 546. Computer Based Technology in Education (4)

Note: Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential from the program coordinator.

SINGLE SUBJECT TEACHING CREDENTIAL (Crosscultural, Language and Academic Development - CLAD Track)

Requirements (44 units)

Admission to the university must precede admission to the credential program.

Students begin the program with ESEC 321. Culture and Schooling. Students may enroll concurrently in ESEC 332 and ESEC 333 without being admitted to the program.

Admission to the Program

One quarter in advance of the time students intend to enroll concurrently in ESEC 332, 440 and 445, students must submit an application for entry into the basic credential program. This application is due by Friday of the third week of the quarter prior to enrolling in any of these courses. Students are particularly advised to complete the required California Basic Educational Skills Test (CBEST) and (if necessary) the appropriate SSAT and/or NTE or PRAXIS series examination as early as possible in order to be able to provide verification of passing scores with their application for admission to the program. (Credential must be completed within five years of taking the examination.)

Admission to the basic credential is based on the follow-

ing criteria:

1. Three written recommendations, at least two from faculty members in the student's major department;
 2. Meet with and obtain signature of a Secondary Education faculty member on an advising form;
 3. Verification of a negative tuberculin examination within the last 24 months;
 4. Academic Achievement
 - A. Applicants must possess the following minimum grade point averages:
 1. A grade point average of 2.67 in all baccalaureate and post-baccalaureate course work or at least 2.75 in the last 90 quarter units attempted.
 2. A grade point average of 3.0 ("B") in professional education course work with no course grade in this area lower than "B-." Students can only discount one grade in the program courses. They can only repeat a total of two courses in the program.
 - B. If necessary, written verification of registration for or passage of subject matter competence in the appropriate single subject credential area.
- No candidate may be recommended for the credential who has received a grade less than "C" (2.0) in any other course required for the credential, such as health science courses.
5. Complete A or B below:
 - A. Completion of 4/5 of the requirements for one of the following degree programs at this university:

Single Subject

Credential

English
Foreign Language

Health Science
Mathematics

Music
Physical Education
Sciences

Social Science

Degree Major

B.A. English
B.A. Spanish or
B.A. French
B.S. Health Sciences
B.A. Mathematics
B.S. Mathematics
B.A. Music (Option I)
B.S. Kinesiology
B.A. in the Sciences
B.S. in the Sciences
B.A. Social Sciences

For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the Teacher Education Office and/or the appropriate major department.

- B. Written verification of registration for or passing score on the National Teacher Examination (Specialty Examination) or SSAT or PRAXIS series examination in the Single Subject.
6. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
7. Completion of or concurrent enrollment in the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a score of 41 or better on the written portion of the CBEST (CBEST exam does not meet the graduate entrance writing requirement for the Master of Arts degree.);
8. Written verification of registration for or passing score

- on the CBEST;
9. Satisfactory completion of the following prerequisite courses:
 - ESEC 321. Culture and Schooling
 - ESEC 332. Educational Psychology for a Diverse Society
 - ESEC 333. Curriculum and Instruction for a Diverse Society
 10. Written statement of educational philosophy and goals;
 11. Successful completion of six semester or nine quarter units of college coursework in a second language with a grade of "C" or better, or an equivalent experience, such as participation in the Peace Corps or residency in a Spanish speaking country.

Admission to Student Teaching

Once admission to the program has been granted and prerequisite courses successfully completed, students may enroll in:

- ESEC 440. Secondary School Curriculum and Instruction I
- ESEC 443. Adolescent Development and Educational Contexts
- ESEC 445. Teaching Reading and Writing in School Subjects

(These courses have prerequisites.)

One quarter in advance of the time students intend to enroll in ESEC 441 and 421A (student teaching), students must submit an application for student teaching. This application is due by Friday of the fifth week of the quarter prior to enrolling in student teaching. (No applications are accepted in the summer quarter.)

Admission to student teaching is based on the following criteria:

1. Interview by members of the Single Subject Program;
2. One of the following:
 - A. Completion of an approved degree program for Single Subject Credential.
 - OR
 - B. Completion of the Single Subject Assessment for Teaching (SSAT) or PRAXIS series examination in the Single Subject area;
3. Submission of evidence that the applicant has passed the CBEST;
4. Satisfactory completion of the following:
 - ESEC 440. Secondary School Curriculum and Instruction I
 - ESEC 443. Adolescent Development and Educational Contexts
 - ESEC 445. Teaching Reading and Writing in Secondary School Subjects
 with a grade point average of 3.0 ("B") and no grade lower than "B-" (these courses have prerequisites);
5. Demonstration of subject matter competence as assessed by the faculty of the appropriate single subject major department;
6. Verification of a negative tuberculin examination within the last 24 months;
7. Completion of the upper-division writing requirement at the university, or the equivalent graduation requirement at another accredited institution, or a score of 41 or bet-

ter on the written portion of the CBEST. (CBEST exam does not meet the graduate entrance writing requirement for the Master of Arts degree.)

In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and interest in multicultural education.

All course work taken at another institution, or more than seven years ago, is subject to approval by the director of the Single Subject Program. No more than 14 quarter units of the credential program may be transferred. Student teaching is never transferable.

Each applicant is reviewed in terms of all of the above criteria and in addition, each must have completed the prerequisite course work in education and be at least of senior standing. Student teaching for the preliminary credential is a full-time assignment for two quarters (ESEC 421A and 421B) that only begins in the fall or winter quarters. No concurrent course work should be taken beyond the required ESEC 441 and 480 without permission from the program coordinator.

Students who fail to successfully complete ESEC 421A, 441 or 480A will be denied continuation in the program. An appeal process is available. Consult the Teacher Education Office for details.

Program Prerequisites (12 units)

Completion of the following course work with a grade point average of 3.0 ("B") with no course grade lower than "B-:"

1. ESEC 321. Culture and Schooling (4)
2. ESEC 332. Educational Psychology for a Diverse Society (4)
3. ESEC 333. Curriculum and Instruction for a Diverse Society (4)

Credential Requirements (44 units)

Completion of the following course work with a grade point average of 3.0 ("B") with no course grade lower than "B-."

1. ESEC 440. Secondary School Curriculum and Instruction I (4)
 2. ESEC 443. Adolescent Development and Educational Contexts (4)
 3. ESEC 445. Teaching Reading and Writing in Secondary School Subjects (4)
 4. Student Teaching (First Quarter) Fall or Winter
 - ESEC 421A. Secondary Student Teaching (8)
 - ESEC 441. Secondary School Curriculum and Instruction II (4) (offered winter quarter only)
 - ESEC 480A. Student Teaching Seminar (2)
- Note:** In lieu of ESEC 441 students may take a course in the candidate's discipline numbered 499 (Methods and Materials for Teaching in a Single Subject Field).
5. Student Teaching (Second Quarter) Winter or Spring
 - ESEC 421B. Secondary Student Teaching (8)
 - ESEC 441. Secondary School Curriculum and Instruction II (4) (offered winter quarter only)
 - ESEC 480B. Student Teaching Seminar (2)
 - ESEC 510. Teaching English as a Second Language in Secondary Schools (4) (offered fall

and spring quarters only)

Additional Requirements

Students must also complete:

One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):

- HIST 146. American Civilization (4)
- HIST 200. United States History to 1877 (4)
- HIST 540. Constitutional History of the United States (4)
- PSCI 203. American Government (4)
- PSCI 410. American Constitutional Law (4)
- PSCI 411. The Bill of Rights (4)

Upon completing the requirements for the baccalaureate degree, subject matter competence, program completion, the U.S. Constitution requirement, and two quarters of student teaching, candidates will be awarded a certificate of completion from California State University, San Bernardino and may apply for a preliminary credential.

Within five years candidates must complete a fifth year of study (45 quarter units of approved upper-division and/or graduate course work beyond the Bachelor of Arts). Continuing Education Units (CEU) are not applicable to the 45 quarter unit requirement. Students must also meet the health education, special education and computer literacy requirements (listed below) to obtain a professional clear credential.

Health education, special education and computer literacy requirements:

1. To fulfill the health education requirement students must take A and B below:
 - A. One of the following courses to fulfill the drug/alcohol, tobacco and nutrition requirement (with a grade of "C" or better):
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
 - HSCI 440. Family Health Issues for Educators (4)
 - B. Verification of current and valid CPR certification for infant/adolescent/adults.
2. One of the following to fulfill the special education requirement (required for any single subject student who has not completed ESEC 332, 421A, 421B, 440 and 445 at this university since the beginning of winter quarter of 1979):
 - ESEC 523. Mainstreaming Exceptional Students in the Secondary Classroom (2)
 - ESPE 530. Psychology and Education of Exceptional Individuals (4)
3. The following are required to fulfill the computer literacy requirement:
 - ETEC 537. Introduction to Computer Technology in Education (2)
 - ETEC 546. Computer Based Technology in Education (4)

SINGLE SUBJECT CREDENTIAL -INTERN TRACK OPTION Crosscultural, Language and Academic Development (CLAD) Requirements (66 units)

The single subject internship is an alternate program for those student teachers who have been placed in an employed setting. Admission and program requirements differ from those of the regular credential program.

Admission to the Program

Admission to the university must precede admission to the credential program. The program has three prerequisites, which may be taken without being admitted to the program:

- ESEC 321. Culture and Schooling
- ESEC 332. Educational Psychology for a Diverse Society
- ESEC 333. Curriculum and Instruction for a Diverse Society

ESEC 321 should be taken first. At the first meeting of this course, Program Application Files (PAF) are distributed, and information is provided on the application procedures.

Note: Students are advised to complete the California Basic Educational Skills Test (CBEST) and (if necessary) PRAXIS and the Single Subject Assessment for Teaching (SSAT) in the specialty teaching area as early as possible in order to be able to provide verification of passing scores with their application for admission to the program.

Admission to the Program

Admission to the program is based on the following criteria:

1. Three written recommendations from faculty members in the student's major department and at least one from a principal or teacher who can attest to the applicant's teaching skills in classroom settings;
2. Meeting with education advisor and signed advising form;
3. Verification of a negative tuberculin examination within the last 24 months;
4. Academic Achievement
 - A. Applicants must possess the following minimum grade point averages:
 1. A grade point average of 2.67 in all baccalaureate and post-baccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
 2. A grade point average of 3.0 ("B") in professional education course work with no course grade in this area lower than "B-." Students can only discount one grade in the program courses. They can repeat a total of two courses in the program;
 - B. If necessary, written verification of registration for or passage of subject matter competence in the appropriate single subject credential area.

No candidate may be recommended for the credential who has received a grade less than "C" (2.0) in any other course required for the credential, such as health science courses.

5. Completion of one of the following degree programs at this university. **Note:** A list of the required grade point averages for each subject matter area is available from the Credentials Office (C.A.S.E.) and the Teacher Education Office.

Single Subject**Credential**

English

Foreign Language

Health Science

Mathematics

Music

Physical Education

Sciences

Social Science

Degree Major

B.A. English

B.A. Spanish or

B.A. French

B.S. Health Sciences

B.A. Mathematics

B.S. Mathematics

B.A. Music (Option I)

B.S. Kinesiology

B.A. in the Sciences

B.S. in the Sciences

B.A. Social Sciences

For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the Teacher Education Office and/or the appropriate major department.

OR

Completion of the PRAXIS (Specialty Examination) and the Single Subject Assessment for Teaching (SSAT) in the specialty teaching area;

6. Submission of a certificate of clearance issued by the California Commission on Teacher Credentialing or evidence of a credential or permit authorizing public school teaching in California;
7. Completion of the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a score of 41 or better on the written portion of the CBEST (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.);
8. Submission of evidence that the applicant has registered to take or has passed the California Basic Educational Skills Test (CBEST);
9. Satisfactory completion of program prerequisites:
Program prerequisites (12 units):
ESEC 321. Culture and Schooling (4)
ESEC 332. Educational Psychology for a Diverse Society (4)
ESEC 333. Curriculum and Instruction for a Diverse Society (4)
10. Once admitted to the program and prerequisite courses completed, students may enroll in:
ESEC 440. Secondary School Curriculum and Instruction I
ESEC 443. Adolescent Development and Educational Contexts
ESEC 445. Teaching Reading and Writing in Secondary School Subjects
11. At least two year's experience in a school setting as a teacher, aide or counselor,
OR
current employment by a school district;
12. Interns must be employed in a school district or school site that has an internship contract with the College of Education.

All course work taken at another college, or more than seven years ago, is subject to approval by an advisor in the College of Education.

In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and many-sided interests.

All course work taken at another college, or more than seven years ago, is subject to approval by the director of the Single Subject Program. No more than 14 units of the credential program may be transferred. Student teaching is never transferable.

Applications for intern candidacy must be submitted in the winter quarter of the calendar year preceding commencement of an internship. (Internships begin in the summer quarter and run for one academic year.) It is the responsibility of the intern candidate to obtain employment. The university provides the names of school districts that have intern contracts. Applicants who are accepted to intern candidacy, but who do not find a position, are qualified for regular student teaching.

Stage 1: Applicant

Applications for intern candidacy must be submitted by the fifth week of the spring quarter preceding commencement of an internship. (Internship begins in the fall quarter of the academic year.) Applications include:

1. Documented teaching experience in a school setting as a teacher, aide or counselor,
2. Demonstration lesson video tape with accompanying lesson plans,
3. Evidence that the U.S. Constitution requirement has been met.

One of the following, or an equivalent, to fulfill the United States Constitution requirement (or successful completion of an examination administered through the University Testing Center):

- | | |
|-----------|---|
| HIST 146. | American Civilization (4) |
| HIST 200. | United States History to 1877 (4) |
| HIST 540. | Constitutional History of the United States (4) |
| PSCI 203. | American Government (4) |
| PSCI 410. | American Constitutional Law (4) |
| PSCI 411. | The Bill of Rights (4) |

Stage 2: Candidate

The final step involves obtaining employment for the academic year in one of the cooperating school districts. It is the responsibility of the intern candidate to obtain employment. The university provides the names of school districts that have intern contracts.

Applicants who are accepted to intern candidacy, but who do not find a position, are qualified for regular student teaching.

Stage 3: Intern

The internship begins with a required course which must be taken prior to internship teaching:

1. ESEC 554. Internship Seminar I (4)
(usually offered in the summer, must be taken prior to internship teaching)

Fall Quarter

1. ESEC 422A. Supervised Intern Teaching in Single Subject (10)
2. ESEC 555. Internship Seminar II (2)

Winter Quarter

1. ESEC 422B. Supervised Intern Teaching in Single Subject (10)
2. ESEC 441. Secondary School Curriculum and Instruction II (4)

Note: In lieu of ESEC 441 students may take a course in the candidate's discipline numbered 499 (Methods and Materials for Teaching in a Single Subject Field).

Spring Quarter

1. ESEC 422C. Supervised Intern Teaching in Single Subject (10)
2. ESEC 556. Internship Seminar III (2)
3. ESEC 510. Teaching English as a Second Language in Secondary Schools (4)

Additional Requirements

Students must enroll in or have successfully completed six semester units or nine quarter units of college coursework in a second language with a grade of "C" or better, or an equivalent experience, such as, participation in the Peace Corps, or residency in a non-English speaking country.

Upon completing the requirements for the baccalaureate degree, subject matter competence, program completion, the U.S. Constitution requirement, and three quarters of student teaching, candidates may apply for a preliminary credential. Within five years candidates must complete a fifth year of study (45 quarter units of approved upper-division and/or graduate course work beyond the Bachelor of Arts) and meet the health education, special education and computer literacy requirements (listed below) to obtain a professional clear credential.

1. One of the following to fulfill the health education requirement:
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
 - HSCI 440. Family Health Issues for Educators (4)
2. The following course fulfills the special education requirement (required for any single subject student who has not completed ESEC 321, 332, 422A, 422B, 422C, 440, 443 and 445 at this university):
 - ESEC 523. Mainstreaming Exceptional Students in the Secondary Classroom (4)
 - ESPE 530. Psychology and Education of Exceptional Individuals (4)
3. The following are required to fulfill the computer literacy requirement:

Level I

- CSCI 127. Introduction to Computer Technology for Educators (4)

OR

- ETEC 537. Introduction to Computer Technology in Education (2)

Level II

- ETEC 546. Computer Based Technology in Education (4)

OR

- MUS 535. Computer Studies for Music Teachers (4) (for music students only)

Note: Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential in the College of Education Office.

DESIGNATED SUBJECTS TEACHING CREDENTIAL PROGRAM (VOCATIONAL AND ADULT EDUCATION)

Requirements (Part-time Credential 12 units,

Full-time Credential 20 units)

Admission to the Program

Appropriate work experience and a high school diploma (or the equivalent) are required for admission to the Designated Subjects Teaching Credential Program. Applicants should have at least five years of verifiable work experience in the vocation, skill, or trade to be taught. Appropriate academic course work may be counted for up to two of the five years of required work experience. At least one year of the work experience must have been completed within the three years immediately preceding application for the credential. Additional information is posted on the program web site at [HTTP://VE.CSUSB.EDU](http://VE.CSUSB.EDU).

Credential Requirements**Part-time Credential (12 units)**

1. EVOC 501. Principles and Methods for Teaching Designated Subjects (4)
2. EVOC 518. Field Work in Designated Subjects (4)
3. EVOC 519. Computer Applications for Vocational Education Teachers (4)

Full-time Credential (20 units)

1. EVOC 501. Principles and Methods for Teaching Designated Subjects (4)
2. EVOC 502. Instructional Support for Teaching Designated Subjects (4)
3. EVOC 503. Contemporary Issues in Teaching Designated Subjects (4)
4. EVOC 518. Field Work in Designated Subjects (4)
5. EVOC 519. Computer Applications for Vocational Education Teachers (4)

Additional Requirements

(Full-time Credential)

Students must also complete:

1. One of the following to fulfill the United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning):
 - HIST 146. American Civilization (4)

- HIST 200. United States History to 1877 (4)
 HIST 540. Constitutional History of the United States (4)
 PSCI 203. American Government (4)
 PSCI 410. American Constitutional Law (4)
 PSCI 411. The Bill of Rights (4)

In both, part-time and full-time credentials, a "preliminary" credential is issued on the basis of documented work experience, and the "clear" credential issued after the applicant has completed the indicated course work, met the health education requirement (listed below) and actually taught under the "preliminary" credential.

Applicants having questions about designated subjects credentials should contact the Coordinator of the Vocational Education Program.

For information concerning the Bachelor of Vocational Education and the Bachelor of Science in Vocational Education, see [Page 355](#).

Health education requirement

(Full-time and Part-time Credentials):

- One of the following to fulfill the health education requirement:
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
 - HSCI 440. Family Health Issues for Educators (4)

Undergraduate course listings can be found on the following pages. Graduate course listings can be found on the page numbers indicated below.

- EDUC Education (general and core courses)
- EADM Educational Administration (listed on [Page 457](#))
- ECLG Educational Counseling (listed on [Page 401](#))
- EELB Elementary Education
- EENV Environmental Education (listed on [Page 447](#))
- EESL English as a Second Language
- ERDG Reading Education (listed on [Page 447](#))
- EREH Rehabilitation Counseling (listed on [Page 503](#))
- ESEC Secondary Education
- ESPE Special Education
- ETEC Instructional Technology
- EVOC Vocational Education (listed on [Pages 356, 454](#))

COURSE OFFERINGS IN EDUCATION (EDUC)

Lower Division

201. Introduction to Tutorial Techniques

Introductory course in individual and small group instruction with emphasis on lesson planning, teaching methods and evaluation for tutorial settings. (2 units)

Upper Division

302. Education in American Society

Politics, organization, structure and philosophical concepts of schooling and education including an analysis of significant problems and issues in American education. Open to students in all majors. (4 units)

306. Expository Writing for Education

Writing related to education including documented research reports, evaluations, and analytical papers. Revision and rewriting will be required. Course fulfills the upper-division writing requirement. May not be counted for fulfilling major requirements for any degree program offered by the College of Education. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or a designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or the course requested will be cancelled. Formerly EDUC 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F.1) (4 units)

542. Seminar in Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 5 units)

543. Individualized Instruction

An individualized course on techniques and procedures for constructing materials, tracking students, classroom management, learning centers, record keeping and media involvement for individualizing instruction at all levels. (4 units)

574. Foundations of Institutional Education: History and Literature

Introduction to historic and current correctional and alternative education delivery structures, the prison reform/correctional education (CE) movement and the classic literature. Emphasis on major CE development in North America, CE paradigms, anomalies, and trends. (Also offered as EDUC 674. Students may not receive credit for both.) (4 units)

575. Educational Change in Institutional Settings

Addresses the work of reforming prisoners and prisons through democratic methods. It equips educators with specialized, professional knowledge and skills to emphasize student learning and personal/professional growth in the most restrictive learning environment. Includes coping with institutional constraints, networking for cooperative resources, managing stressful situations, and support structures that foster student learning. The metaphysical, dialectical, and paradigmatic approaches to educational change will be considered. (Also offered as EDUC 675. Students may not receive credit for both.) (4 units)

580. Teaching the Institutionalized Student

Overview of identified student needs, underlying assumptions, curricular components, and instructional methodologies appropriate to institutional education. Relevant traditional and innovative theory, practice and trends in instruction will be considered. (Also offered as EDUC 680. Students may not receive credit for both.) (4 units)

595. Independent Study

Special topics involving library and/or field research. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and college approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

COURSE OFFERINGS IN EDUCATIONAL COUNSELING (ECLG)

Lower Division**222. College to Career**

Introduction to personal interests, values and abilities as they impact educational and career exploration. Use of technology to help identify career choices and labor market trends. Techniques of job search as it relates to all college majors. (4 units)

Upper Division**531. Introduction to Counseling**

Experience-based introduction to counseling and its techniques. This course cannot be counted among the 72 units required in the Master of Science in Counseling and Guidance. Must be taken concurrently with EDUC 663 for students in the M.S. in Counseling and Guidance and the Pupil Personnel Services Credentials. Prerequisite: approval of admission portfolio. (4 units)

COURSE OFFERINGS IN ELEMENTARY/BILINGUAL EDUCATION (EELB)

Lower Division**130. Introduction to Careers in Education**

Perspectives on public school teaching for potential elementary teachers. A minimum of 10 hours per quarter of guided field experience at an approved setting is required. Formerly EDUC 200 and EELB 200. (2 units)

220. Social Studies Curriculum and Methods in the Elementary School

Introductory course in curriculum and instruction for elementary social studies education. Includes designing instruction to meet academic needs of English language learners in a diverse society. Course requires one hour lecture and two hours activity including observation and participation in an approved setting.

- A. Emphasis on history and political science. Prerequisite: admission to the B.A. in Liberal Studies, Accelerated Track. Corequisites: HIST 140T and PSCI 203T. (2 units)
- B. Emphasis on economics and geography. Prerequisite: admission to the B.A. in Liberal Studies, Accelerated Track. Corequisites: ECON 140T and GEOG 203T. (2 units)

275. Service Learning Experience

Supervised intensive work performed in the classroom. Requires 30 hours of work/study per unit of credit. A total of 10 units may be applied toward graduation. Graded credit/no credit. Formerly EELB 575. (Credit to be arranged: 1 to 5 units)

Upper Division**310. Educational Psychology: Teaching and Learning in Diverse Classrooms**

Explores the major educational theories of human learning and cognition, reviews research on effective teaching practices, and examines the use of learning theories and research among students of differing gender, ethnicity, language, socioeconomic status, and handicapping conditions. Five hours of observation/participation in a public elementary school classroom are required. This course cannot be taken in place of EELB 332. Corequisite: HD 315. (3 units)

311. Mathematics Curriculum and Methods in the Elementary School

Introductory course in curriculum and instruction for implementing meaning-centered elementary mathematics education in a culturally diverse society and in designing instruction to meet academic needs of English language learners. Course requires three hours lecture and two hours activity including observation and participation in approved setting. Prerequisite: admission to the B.A. in Liberal Studies, Accelerated Track. Corequisite: MATH 301. (4 units)

321. Culture and Schooling

Basic understanding of the nature of "culture," its manifestations and the dynamics of crosscultural contact. Key issues of group and individual enculturation, acculturation, assimilation, multiculturalism, culture shock, racism, and gender, and their impact on educational practice. Interaction and communication with diverse families and communities. Requires a six-hour field component at an approved setting. (Also offered as ESEC 321. Students may not receive credit for both.) Meets the California Commission on Teacher Credentialing (CCTC) early field requirement. Must be taken in the first quarter of enrollment in the credential program and may be taken concurrently with EELB 332, 441, and 445 or 446. (4 units)

331. Growth and Development in Socio-Educational Contexts

Developmental characteristics of the young child and early adolescents in the areas of physiology, emotion, personality, cognition, and social relationships. Interaction between individual development and social and educational contexts as affected by culture, language, gender, sexual orientation, socioeconomic status, or physical/emotional/learning handicaps. Requires a six-hour field component at an approved setting. (4 units)

332. Educational Psychology for a Diverse Society

Overview of psychological principles applied to education. Course uses a variety of theoretical perspectives from psychology to explore educational practices, student development and characteristics, learning processes, teaching strategies and assessment in the multicultural classroom. Requires

a six-hour field component at an approved setting. (Also offered as ESEC 332. Students may not receive credit for both.) Formerly EDUC 332. May be taken concurrently with EELB 321, 441 and 445 or 446. Prerequisite: EELB 331 or an upper-division child development course. (4 units)

333. Curriculum and Instruction for a Diverse Society

Overview of various perspectives which are used to develop curriculum and instruction for English language learners, including historical, legal, and educational foundations of bilingual education, organizational models and instructional approaches for English language learners. Key issues and concepts include: first and second language acquisition theories, enrichment versus deficit models of schooling; role of verbal interaction in the classroom; bilingual education; English language development (ELD) instruction and specially designed academic instruction in English (SDAIE). Requires a six-hour field component at an approved setting if not concurrently enrolled in student teaching. May be taken concurrently with EELB 443 and 450A. (4 units)

334. Language Development and Schooling

First and second language acquisition and the applications of this to developing curriculum and instructional practices of English language learners. Historical, legal and educational foundations of bilingual instruction, English language development (ELD) and Specially Designed Academic Instruction in English (SDAIE) as well as enrichment versus deficit models of schooling. Requires five hours of observation and participation in an approved setting. (4 units)

335. Reading/Language Arts Curriculum and Methods in the Elementary School

Emphasis on integration of linguistic concepts with appropriate strategies for teaching emergent readers and writers of varied reading levels and language backgrounds. Strategies include developing phonemic awareness; systemic explicit phonics instruction; selection of appropriate materials and assessment measures; making reading and writing connections; supporting comprehension and vocabulary development; and organizing classrooms for a balanced literacy program. Course requires three hours lecture and two hours activity including observation and participation in approved setting. Prerequisite: admission to the B.A. in Liberal Studies, Accelerated Track. Corequisite: ENG 311. (4 units)

342. Curriculum and Methods for Early Childhood Education

Principles, methods and materials of instruction appropriate for young children. Prerequisites: EELB 321 and 331. (4 units)

414. Science Curriculum and Methods in the Elementary School

Introductory course in curriculum and instruction for implementing meaning-centered elementary science education in a culturally diverse society and in designing instruction to meet academic needs of English language learners. Course requires three hours lecture and two hours activity including observation and participation in approved setting. Prerequisite: admission to the B.A. in Liberal Studies, Accelerated Track. Corequisite: CHEM 304, GEOL 304 or PHYS 304. (4 units)

429. Reading, Writing and Literary Analysis in the Elementary School

Emphasis on approaches to reading and writing in the content areas; analysis of literature; assessment techniques; and strategies for making reading, writing and literature comprehensible to all students including English language learners. Course builds on process writing concepts including drafting, peer editing, and idea development. Course requires three hours lecture and two hours of activity including observation and participation in approved setting. Prerequisite: admission to the B.A. in Liberal Studies, Accelerated Track, EELB 235, ENG 306, and 311. Corequisite: ENG 301, 302, 303, 304, 309 or 320. (4 units)

430. Supervised Student Teaching in the Blended Program

Teaching in elementary grades in the public schools. Graded credit/no credit. Prerequisites: admission to the B.A. in Liberal Studies, Accelerated Track and admission to student teaching. Corequisite: HUM 497. (8 units)

441. Mathematics Curriculum and Methods in the Elementary School

Introductory course in curriculum and instruction for implementing meaning-centered elementary mathematics education in a culturally diverse society and in designing instruction to meet academic needs of English language learners. Requires a six-hour field component including observation and participation in teaching at an approved setting. Formerly EELB 340. May be taken concurrently with EELB 321, 332 and 445 or 446. (4 units)

443. Science Curriculum and Methods in the Elementary School

Introductory course in curriculum and instruction for implementing meaning-centered elementary science education in a culturally diverse society and in designing instruction to meet academic needs of English language learners. Requires a six-hour field component including observation and participation in teaching at an approved setting if not concurrently with student teaching. Formerly EELB 343. May be taken concurrently with EELB 333 and 450A. (4 units)

445. Reading/Language Arts Curriculum and Methods in the Elementary School

Materials, methods, strategies for teaching reading/language arts with a focus on research-based instruction, including explicit instruction in basic reading skills and comprehension strategies to meet the needs of culturally diverse students. Emphasis on emergent reading and writing behaviors, balanced literacy components, and literature for students with varied reading levels and language backgrounds. Requires a six-hour field component including participation with beginning readers in an approved setting. Formerly EELB 345A. May be taken concurrently with EELB 321, 331, 332 and 441. (4 units)

446. Reading/Language Arts (Primary Language) Curriculum and Methods in the Elementary School

Materials, methods, strategies for teaching reading/language arts with a focus on research-based instruction, including explicit instruction in basic reading skills and comprehension strategies to meet the needs of culturally diverse students. Emphasis on emergent reading and writing behaviors, balanced literacy components, and literature for students with varied reading levels and language backgrounds. Part of the course will be taught in Spanish. Requires a six-hour field component including participation with beginning readers in an approved setting. Formerly EELB 345B. May be taken concurrently with EELB 321, 331, 332, and 441. (4 units)

447. Social Studies/Humanities Curriculum and Methods in the Elementary School

Introductory course in curriculum and instruction for elementary education in the social sciences and the humanities in a culturally diverse society. Includes designing instruction to meet academic needs of English language learners. Requires a six-hour field component including observation and teaching at an approved setting if not concurrently enrolled in student teaching. Formerly EELB 341. May be taken concurrently with EELB 449 and 450B. (4 units)

448. Social Studies/Humanities (Primary Language) Curriculum and Methods in the Elementary School

Introductory course in curriculum and instruction for elementary education in the social sciences and the humanities in a culturally diverse society; includes designing instruction to meet academic and language needs of Spanish-speaking students. Part of the course will be taught in Spanish. Requires a six-hour field component including observation and participation in teaching at an approved setting if not concurrently enrolled in student teaching. Formerly EELB 344. May be taken concurrently with EELB 449 and 450B. (4 units)

449. Literacy and Second Language Acquisition in the Elementary School

Continuation of EELB 445 or 446 which extends the study of literacy development. Emphasis on approaches to English language development (ELD), planning for both language and content instruction, literacy in the content areas, development of comprehension strategies for all students, assessment techniques, strategies for working with preliterate students, and transfer of literacy skills from first to second language. Requires a six-hour field component including participation with beginning readers in teaching at an approved setting if not concurrently enrolled in supervision. May be taken concurrently with EELB 447 or 448, and 455A, 455B, 455C, 450A and 450B. Prerequisite: EELB 445 or 446. (4 units)

450. Supervised Student Teaching in Multiple Subject

Teaching in elementary grades in the public schools with required concurrent seminars. Graded credit/no credit. Formerly EELB 410A/410B/410C.

- A. Should be taken concurrently with EELB 333 and 443. Prerequisite: admission to student teaching. (8 units)
- B. Should be taken concurrently with EELB 447 or 448, and 449. Prerequisites: EELB 333, 443 and 450A. (8 units)
- C. Prerequisite: consent of program coordinator. (8 units)

451. Specially Designed Academic Instruction in the Elementary School

Introductory course in designing instruction to meet academic and language needs of language minority students. Working within specific disciplines, student teachers will learn to adapt instruction to employ concepts from this course with students who are learning English. Prerequisite: admission to student teaching. Corequisites: EELB 450A and 447 or 448. (2 units)

452. Second Language Acquisition in the Elementary School

Application of language learning principles through second language methodology. Prerequisites: admission to student teaching, EELB 450A, 451 and 447 or 448. Corequisites: EELB 450B and 480. (2 units)

455. Supervised Intern Teaching in Multiple Subject

Full-time teaching under the intern credential in elementary school. Interns are required to take three quarters of supervised intern teaching: 455A, 455B and 455C, in any order. Formerly EELB 421A/421B/421C. Graded credit/no credit.

- A. Corequisite: EELB 554. Prerequisites: admission to the credential program, student teaching, and admission to the intern program. (8 units)
- B. Prerequisite: EELB 455A. Corequisite: EELB 555. (8 units)
- C. Prerequisite: EELB 455B. Corequisite: EELB 556. (8 units)

480. Capstone Seminar

Seminar on issues in curriculum, instruction and assessment; reflection on all previous course work and experiences; and continuing development of the teaching portfolio to accompany second quarter elementary student teaching. Graded credit/no credit. Prerequisites: EELB 450A, 451 and 447 or 448. Corequisites: EELB 450B, 452 and 511. (2 units)

511. Theory and Practice for English Language Development (ELD)

Study and practice of the design, implementation and assessment of a communication-based curriculum for the English language learners in all stages of second language development. Includes selection and use of appropriate ELD strategies and materials. (Also offered as ESEC 511. Students may not receive credit for both.) Prerequisites: EELB 321, EESL 536 or ESEC 321; and EELB 333, or ESEC 333. (4 units)

512. Spanish Children's Literature for the Bilingual Classroom

Examines children's literature and how it has the potential to be culturally authentic, interesting and effective in literacy instruction. (Also offered as EELB 611. Students may not receive credit for both.) (4 units)

513. Motivation and Behavior Management of Children

Addresses developmentally-appropriate practices in motivating and sustaining school-aged children's interest, involvement, and appropriate conduct. Theories of achievement motivation and research on student involvement will be addressed as they apply to classrooms where students differ in culture, gender, language, ethnicity, socio-economic status, and handicapping conditions. Approaches to management of classroom resources and student behavior will be analyzed as

students develop their own discipline plans. Five hours of observation/participation in a public elementary school classroom are required. (Also offered as HD 513. Students may not receive credit for both.) Prerequisites: senior standing, EELB 310 and HD 315 or equivalent. (3 units)

541. Problems in Elementary Curriculum

Advanced study of some phase of the elementary school curriculum. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

542. Seminar in Elementary/Bilingual Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

545. Teaching Science in Elementary School

Intensive study of teaching science in elementary school. Exploration, analysis, interpretation and implementation of science process teaching. Intended for experienced teachers. Prerequisite: consent of instructor. (4 units)

551. Internship Seminar I: Classroom Organization, Management and Discipline

Seminar for CLAD and BCLAD interns, focusing on the knowledge, skills and attitudes related to classroom organization, management and discipline that are required for a first year teacher during the first month of teaching. Graded credit/no credit. Formerly EDUC 550B. Prerequisite: admission into the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). (2 units)

554. Internship Seminar II: Curriculum and Instruction for a Diverse Society

Seminar for CLAD and BCLAD interns focusing on knowledge, skills and attitudes required for a first year teacher. Included are developing curriculum and instruction for English Language Learners. Key issues and concepts include the following: first and second language acquisition theories; enrichment versus deficit models of schooling; role of verbal interaction in the classroom; bilingual education; English language development (ELD) and specially designed academic instruction in English (SDAIE). Other issues include historical, legal, and educational foundations of bilingual education, organizational models and instructional approaches. This course fulfills the credential requirement for EELB 333. Formerly EDUC 550D. Prerequisite: admission into the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). Corequisite: EELB 455A. (4 units)

555. Internship Seminar III: Literacy and Second Language Acquisition in the Elementary School

Seminar for CLAD and BCLAD interns focusing on knowledge, skills and attitudes required for a first year teacher. Continuation of EELB 445/446 which extends the study of literacy development. Emphasis on approaches to English Language Development (ELD), planning for both language and content instruction (SDAIE), literacy in the content areas, development of comprehension strategies for all students, assessment techniques, strategies for working with preliterate

students, and transfer of literacy skills from first to second language. This course fulfills the credential requirements for EELB 449. Formerly EDUC 555. Prerequisites: EELB 445 or 446 and admission to the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). Corequisite: EELB 455A, 455B, or 455C. (4 units)

556. Internship Seminar IV: Capstone

Seminar for CLAD and BCLAD interns focusing on knowledge, skills and attitudes required for a first year teacher. This seminar includes: discussion of issues in continuing development of the teaching work and experiences; continuing development of the teaching portfolio. Fulfills the credential requirement included with EELB 450. Formerly EDUC 556. Graded credit/no credit. Prerequisite: admission to the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). (2 units)

COURSE OFFERINGS IN ENGLISH AS A SECOND LANGUAGE (EESL)

Upper Division

521. Computer-Assisted Language Learning

Survey of theory and practice in teaching English to speakers of other languages by means of computer applications including the internet, CD-ROM and multimedia-based software. Three hours lecture and two hours activity. (4 units)

536. Crosscultural Teaching

Methods and teaching techniques for teaching in multicultural and crosscultural settings in both ESL and EFL contexts. Developing cultural awareness of teachers to assist them in relating to and motivating culturally diverse students. May be taught through distance learning. Formerly EELB 536. (4 units)

544. Reading Methods for TESOL

Reading methods for English language learners, featuring literacy transfer from the first language, explicit instructions in phonetics, and emergent literacy for adults. (4 units)

COURSE OFFERINGS IN SECONDARY EDUCATION (ESEC)

Upper Division

321. Culture and Schooling

Basic understanding of the nature of "culture," its manifestations and the dynamics of crosscultural contact. Key issues of group and individual acculturation, assimilation, biculturalism, culture shock, and racism and their impact on educational practice. Includes a ten-hour field component at an approved setting. Meets CCTC early field requirement. (Also offered as EELB 321. Students may not receive credit for both.) (For CLAD Certificate candidates only: EESL 536 may be substituted for this course.) (4 units)

332. Educational Psychology for a Diverse Society

Overview of psychological principles applied to educational theory and practice. Course uses humanistic, behavioral, anthropological, and cognitive research to explore educational practices, student characteristics, learning processes, teaching strategies, and classroom evaluation in the multicultural classroom. Requires a ten-hour field component in an approved setting. Two hours lecture and two hours discussion. (Also offered as EELB 332. Students may not receive credit for both.) Formerly EDUC 332. (4 units)

333. Curriculum and Instruction for a Diverse Society

Overview of the social, theoretical, classroom and policy perspectives used to explain the school performance of English language learners. Includes historical, legal, and educational foundations of bilingual education; first and second language acquisition; structure of language; nonverbal communication; English language development; specially designed academic instruction in English; assessment and placement issues; and an examination of the role of verbal interaction in learning. Requires a ten-hour field component in an approved setting. Prerequisite or corequisite: ESEC 321. (For CLAD Certificate candidates only: EESL 536 may be substituted for ESEC 321.) (4 units)

421. Secondary Student Teaching

Full-time teaching in the junior or senior high school. Graded credit/no credit.

- A. Must be taken concurrently with ESEC 441 or its equivalent, or ESEC 480. Prerequisites: ESEC 332, 440, 445 and admission to student teaching. (8 units)
- B. Must be taken concurrently with ESEC 441 or its equivalent or ESEC 480. Prerequisite: satisfactory completion of 421A. (8 units)
- C. Prerequisites: satisfactory completion of 421A and 421B and consent of department chair. (8 units)

422. Supervised Intern Teaching in Single Subject

Full-time teaching under the intern credential in junior or senior high school. Graded credit/no credit.

- A. Prerequisite: consent of program coordinator. (10 units)
- B. Prerequisites: satisfactory completion of 422A and consent of program coordinator. (10 units)
- C. Prerequisites: satisfactory completion of 422B and consent of program coordinator. (10 units)

440. Secondary School Curriculum and Instruction I

Introductory course in secondary curriculum and teaching methods with emphasis on instructional planning, strategies and evaluation, technology as applied to teaching, and classroom management. A minimum of ten hours per quarter of classroom observations in an approved setting is required. Prerequisites: ESEC 321, 332, and admission to the program for the Single Subject Credential. (4 units)

441. Secondary School Curriculum and Instruction II

Introductory course in secondary curriculum and teaching methods with emphasis on subject area materials, mediated materials, secondary curriculum and legal aspects of teaching

as a profession. Prerequisites: consent of department chair and admission to the Single Subject Credential program.

- A. Art. May be taken prior to or concurrently with ESEC 421A. (4 units)
- E. English. Corequisite: ESEC 421A or 421B. (4 units)
- F. Foreign Language. May be taken prior to or concurrently with ESEC 421A. (4 units)
- H. Music. May be taken prior to or concurrently with ESEC 421A. (4 units)
- L. Life and Physical Sciences. (4 units)
- M. Mathematics. Corequisite: ESEC 421A or 421B. (4 units)
- O. Other. Corequisite: ESEC 421A or 421B. (4 units)
- P. Physical Education. May be taken prior to or concurrently with ESEC 421A. (4 units)
- S. Social Sciences. Corequisite: ESEC 421A or 421B. (4 units)

443. Adolescent Development and Educational Contexts

Organization of middle school and high school education will be examined. Interaction between adolescent development and community and school contexts will be studied in relation to current research and practice. Includes a ten-hour field component at approved settings. Prerequisites: ESEC 321, 332 and 333. (4 units)

445. Teaching Reading and Writing in Secondary School Subjects

Methods of diagnosing and teaching specific reading and writing skills in secondary school subjects. A minimum of 24 hours per quarter of field experiences in an approved setting is required. Prerequisites: ESEC 321, 332, and admission to the Single Subject Credential program. (4 units)

480. Student Teaching Seminar

- A. Seminar to accompany the first quarter of student teaching. Includes curriculum planning, instruction, student evaluation, and classroom management with assignments related to the student teaching placement. Graded credit/no credit. (2 units)
- B. Seminar to accompany the second quarter of student teaching. Culminating experience of the teacher preparation program. Students will prepare a portfolio that documents professional development and provides the means to assess program experiences and future professional growth. Graded credit/no credit. (2 units)

510. Teaching English as a Second Language in Secondary Schools

Offers a broad overview of approaches and methods used in language teaching, but will focus specifically on practices that can support the development of English language proficiencies needed for success in secondary schools. Prerequisites: ESEC 321 and 333. (4 units)

511. Theory and Practice for English Language Development (ELD)

Study and practice of the design, implementation, and assessment of a communication-based curriculum for the English language learners in all stages of second language development. Includes selection and use of appropriate ELD strategies and materials. Prerequisites: EELB 321, EESL 536 or ESEC 321; and EELB 333 or ESEC 333. (4 units)

515. Issues and Trends in Secondary Education

Examination of issues and trends in secondary education. May be repeated with consent of advisor. Prerequisite: consent of advisor. (2 units)

517. Middle School Curriculum and Instruction

Examination of middle school curriculum design and instructional practices. (4 units)

521. Instructional Strategies and Approaches to Middle Grade

Instructional methods, techniques and evaluation procedures especially appropriate for middle schools. (4 units)

522. Practicum in Middle Grade Education

Practicum for middle grade philosophies, objectives, and functions. Prerequisites: ESEC 443, 517 and 521. (4 units)

523. Mainstreaming Exceptional Students in the Secondary Classroom

Addresses the needs of exceptional students in the mainstreamed secondary school classroom. Current research, practice and legislation will be examined as they apply to the secondary school teacher and students. Formerly ESEC 602N. (2 units)

542. Seminar in Secondary Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

545. Adolescents Literacy Tutoring

Tutor training for students to work with low literacy and at-risk adolescents in reading. Topics include literacy methods, multicultural issues, learning disabilities and use of educational software. 20 hours lecture and 48 hours of tutoring an adolescent in a field-based setting. Prerequisite: consent of instructor. (4 units)

554. Internship Seminar I

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first-year teacher. Prerequisite: admission to Single Subject Teaching Credential Internship Track. (4 units)

555. Internship Seminar II

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Prerequisite: ESEC 554. (2 units)

556. Internship Seminar III

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Prerequisite: ESEC 555. (2 units)

560. Study Skills for Secondary School

Programs, methods and materials for teaching study skills to exceptional junior and senior high school students. Study strategies include: note taking, organization, memory devices, study contracts and preparation for examinations. (4 units)

COURSE OFFERINGS IN SPECIAL EDUCATION (ESPE)

Upper Division**523. Mainstreaming Handicapped Individuals in the Elementary Classroom**

Introduction to the adaptation of curriculum, methods and materials necessary for accommodating exceptional individuals in the regular elementary classroom. (2 units)

529. Introductory Methods for Special Education

Instruction in positive classroom and behavior management, effective teaching skills, modification of core curriculum, assessment techniques, IEP development, and relationships with other professionals. (4 units)

530. Psychology and Education of Exceptional Individuals

Characteristics and educational implications of physical, intellectual, social and emotional deviations among exceptional individuals. Ethical and legal aspects of special education. Observations in educational settings. (4 units)

532. Introduction to Teaching Individuals with Exceptional Needs

Learning characteristics of individuals with handicaps related to educational procedures and intervention strategies. Study and observation of education and intervention theory and practices. Prerequisite: ESPE 530 or consent of instructor. (4 units)

538. Introduction to Teaching the Gifted and Talented

Definition, characteristics and development of the gifted and talented individual. Identification procedures. Current legislation and educational practices. Eight hours of class and activities weekly. Prerequisite: consent of instructor. (4 units)

539. Programs for Teaching the Gifted and Talented

Development of school programs for gifted and talented: identification, objectives, scheduling, curriculum, materials and program assessment. Prerequisites: ESPE 538 and consent of instructor. (4 units)

540. Strategies for Remedial Teaching

Methods of diagnosing needs, teaching basic subjects; organizing curriculum, and controlling behavior of low achieving students in the regular elementary classroom. (4 units)

542. Seminar in Special Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

COURSE OFFERINGS IN INSTRUCTIONAL TECHNOLOGY (ETEC)

Upper Division

500. Foundations in Instructional Technology

Introduction to instructional technology and its foundations. Includes electronic media, video, computer platforms, operating systems, networks, multimedia, and laser technology in educational and corporate training environments. Formerly ETEC 547. (4 units)

537. Introduction to Computer Technology in Education

Operations, terminology and components of computing systems are introduced. Emphasis is on applications including word processing, data base and spreadsheet. No programming or previous computer experience required. May not be taken for credit by students who have received credit for CSCI 127. One hour lecture and two hours laboratory. Meets Level I competencies for the clear credential. (2 units)

542. Seminar in Instructional Technology

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

544. Construction of Instructional Materials

Various ways to design and produce instructional materials. Emphasis on use and evaluation of media to meet instructional objectives and to interface with emerging technology. (4 units)

546. Computer Based Technology in Education

Introduction to computer applications, computer-based technology, computer-assisted instruction, programming and authoring languages, and teacher utility programs in educational settings. Meets Level IIB competencies for the clear credential. Three hours lecture and two hours laboratory. Prerequisite: ETEC 537. (4 units)

ENGLISH

Department of English

University Hall, Room 334
880-5824

Bachelor of Arts

English
Literature Track
Creative Writing Track
Linguistics Track

Teaching Credential Program

English

Minor

English

Master of Arts

English Composition
English Literature
Teaching English as a Second Language
(Degree requirements can be found on [Page 460.](#))
Secondary Education - English Option
(Degree requirements can be found on [Page 422.](#))

Certificate Programs

Creative Writing
Professional Writing

FACULTY: Jennifer Andersen, Yvonne Atkinson, Mary Boland, James Brown, David Carlson, Rong Chen, Milton Clark, Cynthia Cotter, Juan Delgado, Margaret Doane, Bertram (Pete) Fairchild, Ellen Gil-Gomez, Bruce Golden, Carol Haviland, Holly Henry, Sung-Heh Hyon, Sandra Kamusikiri, Alexandria LaFaye, Lorelee MacPike, E. Clark Mayo, Susan Meisenhelder, Maureen Newlin, E. Philip Page (Chair), Elinore Partridge, Renee Pigeon, Luz Elena Ramirez, Jacqueline Rhodes, Treadwell (Ted) Ruml II, DeShea Rushing, Peter Schroeder, Wendy Smith, Salaam Yousif

The English Department at California State University, San Bernardino is, like most college or university English departments, devoted mainly to the study of literature and language. The literature courses are arranged in different ways: some analyze a specific genre (poetry, fiction, drama); some treat a particular period (for example, the Sixteenth Century, the Romantic Period); some deal with an individual author, area or topic (Shakespeare, modern American poetry, African American literature, fantasy).

The department offers additional courses in the history and structure of the language and in advanced composition. Courses in creative writing give students the opportunity to write poetry or fiction under the direction of an experienced writer.

The English Department also sponsors *The Pacific Review*, a literary journal mingling professional and student contributions; work on this journal provides excellent training for students in editorial work.

As language and culture are understood best in a global context, the English Department encourages students to participate in the California State University's International Programs. For further information, see [Page 25.](#)

B.A. IN ENGLISH

Requirements (73 units)

Total units required for graduation: 180

Requirements for the B.A. in English:

Lower-division requirements (12 units)

1. ENG 230. English Literature I (4)
2. ENG 231. English Literature II (4)
3. ENG 232. English Literature III (4)

Upper-division requirements (61 units)

1. Eight units chosen from:
 - ENG 301. Analysis of Poetry (4)
 - ENG 302. Analysis of Drama (4)
 - ENG 303. Analysis of Prose Fiction (4)
 - ENG 304. Analysis of Nonfiction Prose (4)
2. ENG 311. The English Language (4)
3. ENG 330. American Literature I (4)
4. ENG 331. American Literature II (4)
5. ENG 332. American Literature III (4)
6. Four units chosen from:
 - ENG 314. American Indian Literature (4)
 - ENG 319. Studies in Literary Diversity (4)
 - ENG 323. Chicano Literature (4)
 - ENG 336. Women Writers (4)
 - ENG 339. African American Literature (4)
7. ENG 385. Literary Theory and Criticism (4)

Note: Students in the Creative Writing or Linguistics Track who are NOT seeking to be recommended for the teaching credential (English subject matter program) may substitute another upper-division English course for ENG 385.
8. Four units chosen from:
 - ENG 475. Shakespeare I (4)
 - ENG 476. Shakespeare II (4)
9. ENG 516. Senior Project (1)
10. Twenty-four units chosen from one of the following tracks (A, B or C):

A. Literature Track

To be recommended for the teaching credential, students must include the courses specified under the Teaching Credential Program requirements below.

1. Four units chosen from:
 - ENG 321. Studies in Language and Linguistics (4)
 - ENG 322. Studies in Literary Themes, Genres, or Authors (4)
 - ENG 333. Myth and Epic (4)
 - ENG 335. Studies in the Novel (4)
2. Four units chosen from:
 - ENG 401. English Literature of the Middle Ages (4)
 - ENG 403. English Literature of the Renaissance (4)
 - ENG 406. Seventeenth Century Literature (4)
 - ENG 409. English Literature of the Restoration and Eighteenth Century (4)
 - ENG 412. Romantic Prose and Poetry (4)
 - ENG 415. Victorian Literature (4)

- ENG 442. Modern Poetry (4)
 ENG 443. Contemporary Poetry (4)
 ENG 446. Modern Fiction (4)

3. Four units chosen from:

- ENG 510. English in the Secondary Classroom (4) (Must be taken by students who wish to be recommended for the Teaching Credential in English.)
 ENG 515. Senior Seminar in Literature (4)

4. Twelve units of upper-division electives, which may include HUM 312 and up to eight units of foreign literature or literature in translation.

B. Creative Writing Track

1. ENG 317. Introduction to Creative Writing: Poetry (4)
2. ENG 318. Introduction to Creative Writing: Fiction (4)
3. Four units chosen from:
 - ENG 417. Intermediate Creative Writing: Poetry (4)
 - ENG 418. Intermediate Creative Writing: Fiction (4)
4. ENG 513. Advanced Creative Writing (4)
5. Four units chosen from:
 - ENG 513. Advanced Creative Writing (4)
 - ENG 522. Independent Study in Writing (4)
6. Four units of upper-division electives in English, which may include HUM 312 and courses in foreign literature or literature in translation.

C. Linguistics Track

1. HUM 312. Theories of Language Acquisition and Learning (4)
2. ENG 420. Pedagogical Grammar (4)
3. ENG 422. History of English (4)
4. ENG 523. English Syntax (4)
5. ENG 524. Sociolinguistics (4)
6. Four units chosen from:
 - ENG 321. Studies in Language and Linguistics (4)
 - ENG 510. English in the Secondary Classroom (4)

(Must be taken by students who wish to be recommended for the Teaching Credential in English.)

Note: It is strongly recommended that students majoring in English take ENG 306 to satisfy the upper-division writing requirement of the university; however, ENG 306 is not applicable toward the English major.

Students planning to do graduate work in English literature are strongly advised to acquire a reading knowledge of at least one foreign language and to consider taking ENG 515 in their junior year.

TEACHING CREDENTIAL PROGRAM

In order to be recommended for the teaching credential (English subject matter program), students must complete the requirements for either the literature track, the creative writing track, or the linguistics track in English as well as the following requirements:

1. Students must include among their English electives within their track:
 - ENG 510. English in the Secondary Classroom (4) and one of the following:
 - ENG 420. Pedagogical Grammar (4)
 - HUM 312. Theories of Language Acquisition and Learning (4)
2. Students must take ENG 306 or HUM 306 to satisfy the upper-division writing requirement of the university.
3. Students must demonstrate familiarity with appropriate educational technology. They may do so by one of the following two methods:
 - a. successful completion of one of the following courses:
 - COMM 245. Introduction to TV and Video Production
 - CSCI 127. Introduction to Computer Technology for Educators
 - b. submitting to the Chair of the English Department evidence, verified by professional staff or faculty, that the student has either interned in a computer-equipped writing lab or had work experience in which the student used forms of technology appropriate for the study and teaching of literature, composition, language, linguistics or other related fields. (Experience limited to just word-processing will not be credited.)

Prior to student teaching, students must demonstrate subject matter competence as assessed by the Department of English. For information about the professional education component, prerequisites for and admission to the teacher education program, or specific requirements of the single subject teaching credential program, see Page 161 or contact the Credentials Office (C.A.S.E.).

For subject matter programs in English with concentrations in Communication or Theatre Arts, see listings under the Communication Studies or Theatre Arts Departments respectively.

MINOR IN ENGLISH

Requirements (32 units)

Requirements for a minor in English:

1. ENG 311. The English Language (4)
2. Four units chosen from:
 - ENG 301. Analysis of Poetry (4)
 - ENG 302. Analysis of Drama (4)
 - ENG 303. Analysis of Prose Fiction (4)
 - ENG 304. Analysis of Nonfiction Prose (4)
3. Eight units chosen from:
 - ENG 230. English Literature I (4)
 - ENG 231. English Literature II (4)
 - ENG 232. English Literature III (4)
 - ENG 330. American Literature I (4)
 - ENG 331. American Literature II (4)
 - ENG 332. American Literature III (4)
4. Four units chosen from:
 - ENG 475. Shakespeare I (4)
 - ENG 476. Shakespeare II (4)

5. Four units chosen from:
 - ENG 401. English Literature of the Middle Ages (4)
 - ENG 403. English Literature of the Renaissance (4)
 - ENG 406. Seventeenth Century Literature (4)
 - ENG 409. English Literature of the Restoration and Eighteenth Century (4)
 - ENG 412. Romantic Prose and Poetry (4)
 - ENG 415. Victorian Literature (4)
 - ENG 442. Modern Poetry (4)
 - ENG 443. Contemporary Poetry (4)
 - ENG 446. Modern Fiction (4)
6. Four units chosen from:
 - ENG 314. American Indian Literature (4)
 - ENG 319. Studies in Literary Diversity (4)
 - ENG 323. Chicano Literature (4)
 - ENG 336. Women Writers (4)
 - ENG 339. African American Literature (4)
7. Four additional units chosen from any upper-division English course except:
 - ENG 300. English Workshop
 - ENG 306. Expository Writing
 - ENG 399. Community Service Project

DEPARTMENTAL HONORS

Students majoring in English are eligible to receive honors in English at graduation if they have:

1. Completed at least one-half of the course work required in the major at this university;
2. Earned a grade point average of at least 3.5 in all courses attempted in the major at this university;
3. Earned an overall undergraduate grade point average of at least 3.0;
4. Successfully completed ENG 517. Honors Project.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Writing: Creative Writing

Certificate Requirements (32 units)

1. ENG 317. Introduction to Creative Writing: Poetry (4)
2. ENG 318. Introduction to Creative Writing: Fiction (4)
3. ENG 306. Expository Writing (4)
4. Four units chosen from:
 - ENG 417. Intermediate Creative Writing: Poetry (4)
 - ENG 418. Intermediate Creative Writing: Fiction (4)

5. ENG 513. Advanced Creative Writing (4)
6. Four units chosen from:
 - ENG 301. Analysis of Poetry (4)
 - ENG 302. Analysis of Drama (4)
 - ENG 303. Analysis of Prose Fiction (4)
 - ENG 304. Analysis of Nonfiction Prose (4)
7. Eight units from any upper-division English course to include at least four units chosen from:
 - ENG 522. Independent Study in Writing (4)
 - ENG 621. Approaches to Imaginative Writing (4)

Certificate in Writing: Professional Writing

Certificate Requirements (31 units)

Lower-division requirements (7 units)

1. COMM 240. Writing for Media (4)
2. COMM 243A. Communication Practicum: Journalism and Photojournalism (3)

Upper-division requirements (24 units)

1. ENG 306. Expository Writing (4)
2. ENG 311. The English Language (4)
3. Eight units chosen from:
 - COMM 342. Publication Design and Makeup (4)
 - COMM 442. Public Relations Campaigns (4)
 - ENG 631. Approaches to Professional Writing (4)
4. Eight units chosen from Groups A or B below:
 - Group A
 1. Four units chosen from:
 - ENG 420. Pedagogical Grammar (4)
 - ENG 422. History of the English Language (4)
 - PHIL 387. Philosophy of Language (4)
 2. Four units chosen from:
 - COMM 311. Business and Professional Communication (4)
 - COMM 342. Publication Design and Makeup (if not taken as a required course) (4)
 - ENG 522. Independent Study in Writing (4)
 - ENG 565. Special Studies in Writing (with appropriate subject) (2)
 - ENG 566. Special Studies in Writing (with appropriate subject) (4)
 - ENG 631. Approaches to Professional Writing (if not taken as a required course) (4)

Group B

1. Eight units chosen from:
 - COMM 311. Business and Professional Communication (4)
 - COMM 342. Newspaper Editing and Makeup (if not taken as a required course) (4)
 - ENG 522. Independent Study in Writing (4)
 - ENG 565. Special Studies in Writing (with appropriate subject) (2)
 - ENG 566. Special Studies in Writing (with appropriate subject) (4)
 - ENG 631. Approaches to Professional Writing (if not taken as a required course) (4)

COURSE OFFERINGS IN ENGLISH (ENG)

85. Introductory Composition

A two-quarter course (ENG 85A and 85B) designed to prepare students for ENG 101. Placement in ENG 85A is based on students' scores on the English Placement Test. Completion of ENG 85A with a grade of SP ("satisfactory progress") results in placement in ENG 85B; a grade of SP in ENG 85B results in placement in ENG 95; a grade of CR ("credit") in ENG 85A or 85B results in placement in ENG 101. ENG 85 does not apply toward baccalaureate credit. Graded credit/satisfactory progress/no credit.

- A. First Quarter (4 units)
- B. Second Quarter (4 units)

86. Introductory Composition for Multilingual Students

A two-quarter course (ENG 86A and 86B) designed to prepare students for ENG 101. Placement in ENG 86A is based on students' scores on the English Placement Test and self-identification as a speaker of a native or home language other than English. Particular attention is paid to the writing challenges these students face. Completion of ENG 86A with a SP ("satisfactory progress") results in placement in ENG 86B or 85B; a grade of SP in ENG 86B results in placement in ENG 95; a grade of CR ("credit") in ENG 86A or 86B results in placement in ENG 101. ENG 86 does not apply toward baccalaureate credit. Graded credit/satisfactory progress/no credit.

- A. First Quarter (4 units)
- B. Second Quarter (4 units)

95. Intensive Composition

A one-quarter course designed to prepare students for ENG 101. Placement in ENG 95 is based on students' scores on the English Placement Test or on completion of ENG 85B with a grade of satisfactory progress. ENG 95 does not apply toward baccalaureate credit. Graded ABC/no credit. (4 units)

Lower Division

101. Freshman Composition

Using the processes of writing and critical reading not only to communicate but also to generate thinking and to examine assumptions. Frequent writing required. Graded A, B, C/no credit. Prerequisite: essay score of seven or greater and total score of 151 or greater on the English Placement Test, completion of the test and a grade of "C" or better in ENG 95, or completion of the test and a grade of "CR" in ENG 85A or 85B. (GE=A.1) (ENG 101=CAN ENGL 2) (4 units)

110. World Literature I

Readings in world literature to the sixteenth century (in English translation). Prerequisite: ENG 101 or equivalent. (GE=C.2) (4 units)

111. World Literature II

Readings in world literature from the sixteenth century to the contemporary period (in English translation). Prerequisite: ENG 101 or equivalent. (GE=C.2) (4 units)

140. Major American Authors

Readings in major figures in American literature from the Puritans to the present. (4 units)

160. World Drama

Selected readings of dramatic literature (in translation) from the fifth century B.C. to the present. (Also offered as TA 160. Students may not receive credit for both.) Prerequisite: ENG 101 or equivalent. (GE=C.2) (4 units)

170. Studies in Literature

Analysis of the forms and content of literature. Emphasis is on the methodology of reading prose fiction, drama and poetry. Prerequisite: ENG 101 or equivalent. (GE=C.2) (4 units)

230. English Literature I

Readings in English literature from the Middle Ages through the Renaissance. Prerequisite: ENG 101 or equivalent. (ENG 230+230+232=CAN ENGL SEQ B) (4 units)

231. English Literature II

Readings in English literature from the Restoration through the eighteenth century. Prerequisite: English 101 or equivalent. (ENG 230+230+232=CAN ENGL SEQ B) (4 units)

232. English Literature III

Readings in English literature from the Romantics through the present. Prerequisite: ENG 101 or equivalent. (ENG 230+230+232=CAN ENGL SEQ B) (4 units)

Upper Division

300. English Workshop

An intermediate-level refresher course in writing designed to prepare students for advanced work in composition. Concentration on specific techniques. May not be counted toward fulfilling requirements in the English major and does not fulfill the upper-division writing requirement. Not open to students who have already completed EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306 or SSCI 306. Graded A, B, C/no credit. Prerequisite: ENG 101. (4 units)

Students are strongly advised to take one or more of the analysis courses (ENG 301, 302, 303, 304) before taking other upper-division courses.

301. Analysis of Poetry

Literary analysis of selected lyric poems with special emphasis on how to write about literature. Prerequisite: ENG 101. (4 units)

302. Analysis of Drama

Literary analysis of selected plays with special emphasis on how to write about dramatic literature. (Also offered as TA 302. Students may not receive credit for both.) Prerequisite: ENG 101. (4 units)

303. Analysis of Prose Fiction

Literary analysis of selected pieces of narrative prose with special emphasis on how to write about literature. Prerequisite: ENG 101. (4 units)

304. Analysis of Nonfiction Prose

Literary analysis of selected pieces of nonfiction prose with special emphasis on how to write about literature. Prerequisite: ENG 101. (4 units)

306. Expository Writing

Advanced expository writing including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the Expository Writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or a designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly ENG 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F.1) (4 units)

309. Literature in the Classroom

Approaches to sundry literary genres or themes with an emphasis on adapting them to the elementary classroom. May be repeated for credit as topics change. (4 units)

311. The English Language

Introduction to the structure and development of the English language, including phonetics, phonology, morphology, syntax, pragmatics, sociolinguistics, psycholinguistics, and language acquisition. (4 units)

314. American Indian Literature

A consideration of the oral traditions and significant literary works of a variety of American Indian cultures in their changing cultural contexts. (GE=G.2) (4 units)

316. Introduction to Creative Writing: Specialized Genres

Workshop in writing in a specialized genre, with discussion of student writing and of exemplary works by established writers. May be repeated for credit as topics change. (4 units)

317. Introduction to Creative Writing: Poetry

Workshop in writing poetry, discussion of student writing and exemplary works by established poets. Prerequisite: ENG 101 or consent of instructor. (4 units)

318. Introduction to Creative Writing: Fiction

Workshop in writing fiction, discussion of student writing and exemplary works by established authors. Prerequisite: ENG 101 or consent of instructor. (4 units)

319. Studies in Literary Diversity

Intensive study of literature which reflects diversity, especially of race, gender, sexual orientation, class or culture. May be repeated for credit as topics change. May be taken for credit by students who have received credit for ENG 322; credit may not be received twice for the same topic. (4 units)

320. Children's Literature

History and development of children's literature; emphasis on developing skills in analyzing, evaluating and selecting books for children from preschool through junior high school, especially picture books. Prerequisite: ENG 301, 302, 303, or 304. (4 units)

321. Studies in Language and Linguistics

Intensive study in selected topics in language structure, development, and use. May be repeated for credit as topics change. (4 units)

322. Studies in Literary Themes, Genres, or Authors

Intensive study of selected themes, genres, or authors. May be repeated for credit as topics change. (4 units)

323. Chicano Literature

Selected literature by and about Mexican Americans. Emphasis on the uniqueness of the voices that collectively define Chicano literature and on that literature's formal and thematic characteristics. Formerly ENG 322X. (4 units)

327. Literature for Adolescents and Young Adults

History and analysis of literature aimed at the adolescent and young adult audience. Emphasis on literary and cultural values by exploration of the themes and genres appropriate for junior and senior high school readers. Prerequisite: ENG 301, 302, 303 or 304. (4 units)

330. American Literature I

Readings in American literature from the Colonial period through the early American Romantics. (4 units)

331. American Literature II

Readings in American literature from the Romantics through the American Renaissance. (4 units)

332. American Literature III

Readings in American literature from the Gilded Age to the present. Formerly ENG 436. (4 units)

333. Myth and Epic

Myths and epics of folklore and of classical literature, emphasizing relationship to later Western literature. (4 units)

335. Studies in the Novel

Studies in the novel with emphasis on close reading of specific texts. (4 units)

336. Women Writers

Literary analysis of selected works by women writers, with special emphasis on historical and contemporary issues in women's lives. (Also offered as WSTD 336. Students may not receive credit for both.) (4 units)

339. African American Literature

Readings in African American literature from the oral tradition to the present, with emphasis on literary, historical and cultural contexts. (4 units)

347. Playwrighting

Fundamentals of play development, to include plot, character, structure, and theme, culminating in individual performable scripts. (Also offered as TA 347. Students may not receive credit for both.) Prerequisite: ENG or TA 302, or consent of instructor. (4 units)

385. Literary Theory and Criticism

The major issues in literary theory and criticism. (4 units)

399. Community Service Project

Credit for applying previously learned skills in the area of English to academically related tasks in such agencies as governmental, social services and educational institutions. May be repeated for a total of two units. Graded credit/no credit. Prerequisite: departmental approval of a written application submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 or 2 units)

401. English Literature of the Middle Ages

Lyric, drama, prose and verse narrative from the beginnings of English literature through Malory. (4 units)

403. English Literature of the Renaissance

Poetry, prose and drama of the sixteenth century. (4 units)

406. Seventeenth Century Literature

English prose and poetry from Bacon through Milton. (4 units)

409. English Literature of the Restoration and Eighteenth Century

English poetry and prose of the Restoration and eighteenth century. (4 units)

412. Romantic Prose and Poetry

Major English romantics such as Blake, Wordsworth, Keats, Coleridge, Shelley and Byron. (4 units)

415. Victorian Literature

Major writers of Victorian England. (4 units)

417. Intermediate Creative Writing: Poetry

Intermediate-level workshop in poetry writing; discussion of student writing and exemplary texts by established poets. Prerequisite: ENG 317 or consent of instructor. (4 units)

418. Intermediate Creative Writing: Fiction

Intermediate-level workshop in fiction writing; discussion of student writing and exemplary texts by established fiction writers. Prerequisite: ENG 318 or consent of instructor. (4 units)

420. Pedagogical Grammar

Application of current linguistic theories to the analysis of grammatical structures pertinent to the teaching of English as a first and second language. Prerequisite: ENG 311. (4 units)

422. History of the English Language

Development of the English language from the beginning to the present. Prerequisite: ENG 311. (4 units)

442. Modern Poetry

Studies in British, American and European poetry from the late nineteenth century to World War II. Prerequisite: ENG 301. (4 units)

443. Contemporary Poetry

Studies in British and American poetry from World War II to the present. Prerequisite: ENG 301. (4 units)

446. Modern Fiction

Modern and contemporary fiction. (4 units)

450. Classical Drama

Development of comedy and tragedy in Greece and Rome. (Also offered as TA 450. Students may not receive credit for both.) (4 units)

455. Modern Drama I

European, English and American realism. (Also offered as TA 455. Students may not receive credit for both.) (4 units)

456. Modern Drama II

European, English and American anti-realism. (Also offered as TA 456. Students may not receive credit for both.) (4 units)

475. Shakespeare I

Comedies and histories. (Also offered as TA 475. Students may not receive credit for both.) (4 units)

476. Shakespeare II

Tragedies and romances. (Also offered as TA 476. Students may not receive credit for both.) (4 units)

510. English in the Secondary Classroom

English as a secondary school subject including language, literature and composition. Special emphasis on problems of improving and assessing student writing. Prerequisites: ENG 306, 311 and at least two courses from ENG 301, 302, 303, 304. (4 units)

511. Creative Writing in the Classroom

Advanced methods for teaching the techniques of creative writing, focusing primarily on poetry and fiction. Intended for future elementary and secondary teachers. Requires a minimum six-hour field component. Prerequisite: ENG 317 or 318. (4 units)

513. Advanced Creative Writing

Intensive writing workshop in one genre: poetry, fiction, autobiography or others. Emphasis will change from quarter to quarter. May be repeated for credit as subject matter changes. Prerequisite: ENG 417 or 418 or consent of instructor. (4 units)

515. Senior Seminar in Literature

Advanced study of a selected literary topic, including consideration of critical theory and methodology. May be repeated for credit as topics change. Prerequisites: senior standing (or junior standing with consent of instructor) and completion of at least two analysis courses (ENG 301, 302, 303, or 304), and at least two additional upper-division courses in English. (4 units)

516. Senior Project

Preparation and submission of a portfolio of appropriate writing samples as the basis of a reflective essay showing how the portfolio demonstrates accomplishment of essential goals of the major. Graded credit/no credit. Prerequisite: completion of 135 units, including 40 units of the English major. (1 unit)

517. Honors Project

Preparation of a piece of graduate-level writing (which may be an expansion of one of the student's papers or other work) to be presented at an honors colloquium. One hour of class meeting a week and required attendance at honors colloquia. Graded credit/no credit. (2 units)

522. Independent Study in Writing

Projects in advanced writing: fiction, non-fiction, poetry or drama. A total of eight units may apply to the English major or toward graduation. Prerequisites: ENG 513 and departmental approval; students must be enrolled in the Creative Writing track and the project must be approved by an instructor. (4 units)

523. English Syntax

A linguistic approach to the analysis of modern English sentences and their component parts. Emphasis is placed on practical experience in analyzing structures in context. Prerequisites: ENG 311 and 420. (4 units)

524. Sociolinguistics

An examination of language within social and cultural contexts, including ethnic, social and regional dialect variations in the United States. Prerequisites: ENG 311 and 420. (4 units)

525. Seminar in Literary Theory and Criticism

Advanced study in special topics in literary theory and criticism. May be repeated for credit as topics change. (4 units)

526. English Phonetics and Phonology

Sounds and sound patterns of spoken English, with special attention to the pronunciation problems encountered by learners of English as a second language. Prerequisite: ENG 311. (4 units)

530. Issues in Tutoring Writing

Study of the theory, principles and methods of tutoring students who need specific practice in writing. Those completing this course with a grade of "B" or better are eligible to participate in tutorial writing services on campus. Students in this class are expected to be proficient writers. Prerequisites: ENG 306 or equivalent and consent of instructor. (4 units)

542. Literary Publication

Principles and methods of literary publication. Students function as a literary staff dealing with key aspects of the production process, including helping to select, edit, and proof read poems, short stories, and plays. Two hours lecture and four hours laboratory. ENG 542A and 542B may each be taken once for credit.

- A. Producing print literary journal, The Pacific Review, and its web site. (4 units)
- B. Producing on-line literary journal, Gold Coast Review. (4 units)

565. Special Studies in Writing

Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

566. Special Studies in Writing

Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

575. Internship in English

Supervised learning experience applying English-related skills in a work setting. A total of eight units may be applied toward graduation. Graded credit/no credit. Generally assumes 30 hours of work/study per unit of credit. Prerequisites: junior standing with at least 16 units of course work in English on this campus with an overall grade point average of 3.0 or better; consent of instructor; and departmental approval of a written proposal submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

595. Independent Study in Literature, Composition, or Linguistics

Independent study of selected themes, figures, and areas in literature, composition, or linguistics. May be repeated for a maximum of eight units of credit toward the B.A. in English and toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

ENVIRONMENTAL HEALTH SCIENCE

Department of Health Science and Human Ecology

Health and Physical Education, Room 235
880-5339, <http://health.csusb.edu/hsci/>

Bachelor of Science in Health Science

Concentration in Environmental Health Science

Faculty: Lal Mian

The Environmental Health Science Concentration is the appropriate choice for students who want to become health inspectors (i.e., Registered Environmental Health Specialist), industrial hygienists, or hazardous waste control experts. For those who plan on becoming Registered Environmental Health Specialists, this concentration is approved by the Environmental Specialist Registration Committee of the California State Department of Health Services. For further program information, course descriptions, and requirements for the B.S. in Health Science, see the Department of Health Science and Human Ecology on [Page 209](#).

Students who are certified by the environmental health coordinator will have met the academic and experience requirements for admittance to the State Environmental Health Specialist Registration Examination.

Environmental Health Science Concentration Core Courses

Required lower division courses:

1. HSCI 120. Health and Society: An Ecological Approach (5)
2. BIOL 200. Biology of the Cell (5)
3. BIOL 201. Biology of Organisms (5)
4. BIOL 202. Biology of Populations (5)
5. Five units chosen from:
 - BIOL 220. Principles of Microbiology (5)
 - BIOL 320. Microorganisms (6)
6. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
7. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
8. Organic chemistry, a minimum of five units chosen from group A, B, or C:

Group A

CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)

Group B

CHEM 221A. Organic Chemistry I: Lecture (3)
CHEM 221B. Organic Chemistry I: Laboratory (1)
CHEM 222A. Organic Chemistry II: Lecture (3)
CHEM 222B. Organic Chemistry II: Laboratory (1)
CHEM 223A. Organic Chemistry III: Lecture (3)
CHEM 223B. Organic Chemistry III: Laboratory (1)

Group C

CHEM 321. Principles of Organic Chemistry I (5)
CHEM 322. Principles of Organic Chemistry II (5)
CHEM 323. Principles of Organic Chemistry III (5)

Required upper division core courses:

1. HSCI 352. Principles of Environmental Health (4)
2. HSCI 355. Health, Consumer and Environmental Law (4)
3. HSCI 367. Human Disease Mechanisms (4)
4. HSCI 451. Principles of Epidemiology (4)
5. HSCI 470. Health Behavior (4)
6. Four units chosen from:
 - MATH 262. Applied Statistics (4)
 - MATH 305. Statistics: Hypothesis and Testing Estimation (4)

Required upper division concentration courses:

1. HSCI 380. Principles of Toxicology (4)
2. HSCI 401. Advanced Environmental Health (5)
3. HSCI 402. Principles of Occupational Health (5)
4. HSCI 403. Vector-borne Disease Control (5)
5. HSCI 490. Health Service Administration (4)
6. HSCI 496. Internship in Environmental Health (6)
7. Four units chosen from:
 - MATH 192. Methods of Calculus (4)
 - MATH 211. Basic Concepts of Calculus (4)
8. A minimum of thirteen units, choose Group A or B below:

Group A:

PHYS 121. Basic Concepts of Physics I (5)
PHYS 122. Basic Concepts of Physics II (4)
PHYS 123. Basic Concepts of Physics III (4)

Group B:

PHYS 221. General Physics I (5)
PHYS 222. General Physics II (5)
PHYS 223. General Physics III (5)

9. Ten units of health science electives chosen from:
 - HSCI 322. Air Pollution (2)
 - HSCI 324. Radiological Health and Safety (2)
 - HSCI 354. Solid Waste Management (2)
 - HSCI 356. Housing and Institutions (2)
 - HSCI 357. Hazardous Material Control (4)
 - HSCI 358. Water Quality & Pollution Control (4)
 - HSCI 381. Occupational Safety (4)
 - HSCI 430. Food-borne Illnesses and Their Prevention (4)
 - HSCI 477. Environmental Health Engineering (4)
 - HSCI 478. Environmental Health Management (4)
 - HSCI 499. Directed Reading (1-4)
 - HSCI 595. Independent Study (1-6)

ENVIRONMENTAL STUDIES

Department of Geography

Social and Behavioral Sciences Building, Room 327J
880-5519

Bachelor of Arts

Environmental Studies - Track A
Environmental Studies - Track B

Minor

Environmental Studies

COORDINATOR: Jeffrey Hackel

To accomplish its principal objective of promoting an understanding of the interaction of human beings with their environment, this interdisciplinary degree program includes courses primarily from the natural sciences and social sciences.

Major requirements from the natural sciences develop fundamental principles about the composition and functioning of the earth's ecosystems, principles deemed essential to a sound working knowledge of the environment. Course offerings from the social sciences assess the impact of human beings upon the environment and the possibility of creating different environments.

The program is designed for students who desire either to focus on a study of the environment as part of a broader liberal arts curriculum or to prepare for an environmentally related career or graduate school. Professional opportunities for graduates include a wide range of positions in public agencies responsible for developing and enforcing environmental controls, and in business, industry and nonprofit organizations which need qualified individuals to communicate environmental information and to assist in compliance with environmental regulations. Additional opportunities are available in conjunction with other programs of study, such as environmental law, environmental health, education and public administration.

B.A. IN ENVIRONMENTAL STUDIES - TRACK A

Requirements (78 units)

Total units required for graduation: 180

Requirements for the B.A. in Environmental Studies - Track A:

Lower-division requirements (26 units)

- Five units chosen from:
 - BIOL 202. Biology of Populations (5)
 - BIOL 250. Biology of Ecosystems (5)
- CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
- GEOG 201. Map Interpretation (2)

- A minimum of fourteen units chosen from:
 - ANTH 100. Introduction to Anthropology: Human Evolution (4)
 - BIOL 200. Biology of the Cell (5)
 - BIOL 201. Biology of Organisms (5)
 - CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
 - GEOG 103. Physical Geography (5)
 - GEOG 101. Introductory Geology (5)
 - HSCI 120. Health and Society: An Ecological Approach (5)

May choose only one of the following two courses:

- PHYS 100. Physics in the Modern World (5)
- PHYS 121. Basic Concepts of Physics I (5)

Upper-division requirements (26 units)

- Four units chosen from:
 - ECON 360. Economics of the Environment (4)
 - HSCI 478. Environmental Health Management (4)
- Four units chosen from:
 - GEOG 304. Field Methods in Geography (4)
 - GEOG 305. Geographic Research Methods (4)
 - GEOG 306. Remote Sensing of Environment (4)
- GEOG 350. Conservation and Natural Resources (4)
- Four units chosen from:
 - GEOG 360. Weather and Climate (4)
 - GEOG 460. Biogeography (4)
- Four units chosen from:
 - GEOG 480. Geomorphology (4)
 - GEOG 312. Geology of California (4)
- Four units chosen from:
 - MATH 305. Statistics: Hypothesis Testing and Estimation (4)
 - GEOG 205. Geographical Statistics (4)
- GEOG 500. Senior Seminar (2)

Electives (26 units)

- A minimum of 26 units chosen from Groups 1 and 2 below: (Students must take at least two courses from each of the following groups provided that none have been used elsewhere to meet requirements of this major.)

Group 1:

- ANTH 475. Cultural Ecology (4)
- ECON 360. Economics of the Environment (4)
- GEOG 380. Population Geography (4)
- GEOG 415. Urban Planning and Land Development (4)

- GEOG 460. Biogeography (4)
- GEOG 470. Hydrology and Water Resources (4)
- GEOG 480. Geomorphology (4)
- GEOG 312. Geology of California (4)
- HSCI 322. Air Pollution (2)
- HSCI 352. Principles of Environmental Health (4)
- HSCI 401. Advanced Environmental Health (5)
- PSCI 342. The Politics of Environment (4)

Group 2:

- GEOG 301. Introduction to Geographic Information Systems and Mapping (5)
- GEOG 304. Field Methods in Geography (4)
- GEOG 401. Advanced Geographic Information Systems (5)

- GEOG 402. Geographic Information Systems Applications (4)
 GEOL 301. Introduction to Geologic Mapping (4)
 HSCI 324. Radiological Health and Safety (2)
 HSCI 478. Environmental Health Management (4)

Optional courses not a part of the major. Students are encouraged to continue their studies of the environment through the use of independent study courses and approved internships.

B.A. IN ENVIRONMENTAL STUDIES - TRACK B

Requirements (79 units)

Total units required for graduation: 180

Requirements for the B.A. in Environmental Studies - Track B:

Lower-division requirements (37 units)

- BIOL 200. Biology of the Cell (5)
- BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- CHEM 245. Modern Quantitative Analysis (5)
- Five units chosen from:
 PHYS 100. Physics in the Modern World (5)
 PHYS 121. Basic Concepts of Physics I (5)

Upper-division requirements (26 units)

- Four units chosen from:
 ECON 360. Economics of the Environment (4)
 HSCI 478. Environmental Health Management (4)
- Four units chosen from:
 GEOG 304. Field Methods in Geography (4)
 GEOG 305. Geographic Research Methods (4)
 GEOG 306. Remote Sensing of Environment (4)
- GEOG 350. Conservation and Natural Resources (4)
- Four units chosen from:
 GEOG 360. Weather and Climate (4)
 GEOG 460. Biogeography (4)
- Four units chosen from:
 GEOG 480. Geomorphology (4)
 GEOL 312. Geology of California (4)
- MATH 305. Statistics: Hypothesis Testing and Estimation (4)
- GEOG 500. Senior Seminar (2)

Electives (a minimum of 16 units)

One of the following Groups 1 or 2 below:

Group 1

- BIOL 370. Symbiosis (4)
- Five units chosen from:
 BIOL 450. Ecology (5)
 BIOL 455. Marine Biology and Oceanography (5)

- A minimum of seven units chosen from:
 BIOL 319. Local Flora (5)
 CHEM 221A. Organic Chemistry I: Lecture (3)
 CHEM 221B. Organic Chemistry I: Laboratory (1)
 CHEM 222A. Organic Chemistry II: Lecture (3)
 CHEM 222B. Organic Chemistry II: Laboratory (1)
 GEOG 460. Biogeography (4)
 May choose only one of the following two courses:
 GEOG 103. Physical Geography (5)
 GEOL 101. Introductory Geology (5)
 GEOL 300. Geochemistry (3)
 HSCI 352. Principles of Environmental Health (4)
 HSCI 401. Advanced Environmental Health (5)

Group 2

- CHEM 221A. Organic Chemistry I: Lecture (3)
 CHEM 221B. Organic Chemistry I: Laboratory (1)
- CHEM 222A. Organic Chemistry II: Lecture (3)
 CHEM 222B. Organic Chemistry II: Laboratory (1)
- A minimum of eight units chosen from:
 BIOL 319. Local Flora (5)
 BIOL 370. Symbiosis (4)
 GEOG 460. Biogeography (4)
 May choose only one of the following two courses:
 BIOL 450. Ecology (5)
 BIOL 455. Marine Biology and Oceanography (5)
 May choose only one of the following two courses:
 GEOG 103. Physical Geography (5)
 GEOL 101. Introductory Geology (5)
 GEOL 322. Introduction to Geochemistry (3)
 HSCI 352. Principles of Environmental Health (4)
 HSCI 401. Advanced Environmental Health (5)

Optional courses not a part of the major. Students are encouraged to continue their studies of the environment through the use of independent study courses and approved internships.

MINOR IN ENVIRONMENTAL STUDIES

Requirements (36 units)

Requirements for a minor in Environmental Studies:

Lower-division requirements (12 units)

- Five units chosen from:
 BIOL 100. Topics in Biology (5)
 BIOL 202. Biology of Populations (5)
 HSCI 120. Health and Society: An Ecological Approach (5)
- Five units chosen from:
 GEOG 103. Physical Geography (5)
 GEOL 101. Introductory Geology (5)
- GEOG 201. Map Interpretation (2)

Upper-division requirements (12 units)

- GEOG 350. Conservation and Natural Resources (4)
- Four units chosen from:
 ECON 360. Economics of the Environment (4)
 HSCI 478. Environmental Health Management (4)

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3. Four units chosen from:

- MGMT 322. Law and Ethics of Environmental Management (4)
- MGMT 324. International Environmental Management (4)

Electives (12 units)

1. A minimum of 12 units chosen from the following courses. In consultation with the environmental studies coordinator, a student can choose other courses, besides those listed below, to meet the elective requirement.

- BIOL 250. Biology of Ecosystems (5)
- BIOL 450. Ecology (5)
- ECON 360. Economics of the Environment (4)
- GEOG 301. Introduction to Geographic Information Systems and Mapping (5)
- GEOG 304. Field Methods in Geography (4)
- GEOG 305. Geographic Research Methods (4)
- GEOG 460. Biogeography (4)
- GEOG 470. Hydrology and Water Resources (4)
- GEOL 301. Introduction to Geologic Mapping (4)
- GEOL 312. Geology of California (4)
- GEOL 375. Groundwater Hydrology (4)
- HSCI 352. Principles of Environmental Health (4)
- HSCI 401. Advanced Environmental Health (4)
- HSCI 478. Environmental Health Management (4)
- MGMT 326. Natural Resource Management (4)

HONORS IN THE MAJOR

Students majoring in environmental studies are eligible to receive honors in environmental studies at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Completion of a senior project approved in advance by the program coordinator.

Students interested in receiving this recognition must initiate the process by making a formal application with the Geography Department secretary.

ETHNIC STUDIES

College of Social and Behavioral Sciences

Social and Behavioral Sciences Building, Room 302
880-5476

Minor

Ethnic Studies
with options in:
General Ethnic Studies
African American Studies
Latino Studies
Native American Studies
Asian American Studies

DIRECTOR: Mary Texeira

Ethnicity is an interdisciplinary study of American nationality and race, and utilizes knowledge from the humanities and social sciences to explore issues and experiences. Faculty teaching in the program represent the wide diversity of these disciplines. Essentially, Ethnic Studies is part of American Studies rather than regional, area or international studies. The study of American ethnicity and race is designed to enhance the understanding of a multicultural and multiracial society.

The Center for Ethnic Studies oversees the program including academic advising and mentoring of students. Collaborative efforts between students and faculty may result in research proposals, data compilation, joint professional papers for academic conferences, and joint publications.

Jointly governed by the College of Social and Behavioral Sciences and the College of Arts and Letters, the Center's director works closely with an Advisory Council whose members are drawn from the faculty of every college as well as students and staff.

MINOR IN ETHNIC STUDIES

Requirements (28 units)

To earn the minor in ethnic studies, students must complete 28 units of coursework with options in:

General Ethnic Studies
African American Studies
Latino Studies
Native American Studies
Asian American Studies

Requirements for a minor in Ethnic Studies:

Core Courses (8 units)

- ES 100. Ethnicity and Race in America (4)
- ES 300. Research Methods in Ethnic Studies (4)

Topic Courses (4 units)

- In consultation with an advisor from the Ethnic Studies Program Committee, four units chosen from:
ES 392. Topics in Ethnic Studies (2) for a total of (4)
ES 394. Topics in Ethnic Studies (4)

One of the following options (16 units):

General Ethnic Studies

In consultation with an advisor from the Ethnic Studies Program Committee, 16 units chosen from:

- American Studies
Eight units chosen from:
ANTH 351. Indians of North America (4)
ANTH 352. Indians of the Southwest (4)
May choose only one of the following two courses:
ANTH 323. Native North American Art (4)
ART 323. Native North American Art (4)
ENG 314. American Indian Literature (4)
ENG 323. Chicano Literature (4)
ENG 339. African American Literature (4)
HIST 340. African-American History, 1620-1865 (4)
HIST 341. African-American History, 1865-Present (4)
HIST 565. Ethnic Minorities in American History (4)
HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
HIST 567. The Asian-American Experience (4)
HUM 335. The Origin and Contemporary Role of Latino Culture (4)
MUS 352. African American Music (4)
PSCI 352A. Minority Politics: Ethnic Politics (4)
SOC 336. Black Women and Feminism (4)
SOC 341. Marriage and Family Among Blacks (4)
SOC 342. The Chicano Family (4)
SOC 441. Black Social Stratification (4)
SOC 442. Chicano Social Stratification (4)
TA 462. African-American Theatre and Drama (4)
- Area Studies
Eight units chosen from:
ANTH 325. Human Variation and the Concept of Race (4)
ANTH 357. African Societies (4)
ART 328. Mexican Art (4)
ART 329. Chicano Art (4)
ECON 352. Political Economy of Poverty and Discrimination (4)
HIST 391. Chicano History (4)
HIST 465. Modern Central America (4)
HIST 470. Modern Latin America (4)
PSYC 340. Prejudice, Race and Racism (4)
SSCI 300. Nonwestern World (4)
SSCI 316. Race and Racism (4)
SSCI 350. Roots of Modern Racism in America (4)
SOC 410. Sociology of Race and Ethnicity (4)

African American Studies

- In consultation with an advisor from the Ethnic Studies Program Committee, 16 units chosen from:
ANTH 357. African Societies (4)
ENG 339. African American Literature (4)
HIST 340. African-American History, 1620-1865 (4)
HIST 341. African-American History, 1865-Present (4)
HIST 565. Ethnic Minorities in American History (4)
MUS 352. African American Music (4)

- PSCI 352B. Minority Politics: African American Politics (4)
 SOC 336. Black Women and Feminism (4)
 SOC 341. Marriage and Family Among Blacks (4)
 SOC 441. Black Social Stratification (4)
 TA 462. African-American Theatre and Drama (4)

Latino Studies

1. In consultation with an advisor from the Ethnic Studies Program Committee, 16 units chosen from:
 ART 328. Mexican Art (4)
 ART 329. Chicano Art (4)
 ENG 323. Chicano Literature (4)
 HIST 391. Chicano History (4)
 HIST 465. Modern Central America (4)
 HIST 470. Modern Latin America (4)
 HIST 565. Ethnic Minorities in American History (4)
 HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
 HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 IS 460. Aspects of Chicano Culture (4)
 PSCI 352C. Minority Politics: Latino Politics (4)
 SOC 342. The Chicano Family (4)
 SOC 442. Chicano Social Stratification (4)

Native American Studies

1. In consultation with an advisor from the Ethnic Studies Program Committee, 16 units chosen from:
 ANTH 305. North American Prehistory (4)
 ANTH 351. Indians of North America (4)
 ANTH 352. Indians of the Southwest (4)
 ART 323. Native North American Art (4)
 ENG 314. American Indian Literature (4)
 HIST 565. Ethnic Minorities in American History (4)
 HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
 PSCI 352E. Minority Politics: Native American Politics (4)

Asian American Studies

1. HIST 567. The Asian-American Experience (4)
 2. PSCI 352D. Minority Politics: Asian American Politics (4)
 3. In consultation with an advisor from the Ethnic Studies Program Committee, eight units chosen from:
 ART 310. Asian Art (4)
 HIST 565. Ethnic Minorities in America (4)
 HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
 PHIL 375. Classics of Eastern Thought (4)

COURSE OFFERINGS IN ETHNIC STUDIES (ES)

Lower Division**100. Ethnicity and Race in America**

Culture, history and politics, and current problems of ethnic and racial minorities. Major groups included will be Black, Chicano, Asian American, and Native American. (GE=D.4) (4 units)

Upper Division**300. Research Methods in Ethnic Studies**

Development and implementation of research (quantitative or qualitative) that explores in depth one or more facets of ethnic experience. (4 units)

392. Topics in Ethnic Studies

A selected area or issue of ethnic studies. May be repeated for credit as topics change. (2 units)

394. Topics in Ethnic Studies

A selected area or issue of ethnic studies. May be repeated for credit as topics change. (4 units)

595. Independent Study

For students capable of individualized work and in need of advanced or specialized study. May be repeated for credit in the Ethnic Studies minor for a total of no more than eight units. Prerequisites: consent of instructor and Ethnic Studies Program Committee approval. (Credit to be arranged: 1 to 4 units)

FINANCE

Department of Accounting and Finance

Jack Brown Hall, Room 459
880-5704

FACULTY: Gene Andrusco, Francisca Beer, Rauf Khan, Dong Man Kim, David Schalow, Mo Vaziri

The university offers concentrations in finance within the Bachelor of Arts in Administration, the Bachelor of Science in Administration and the Master of Business Administration. The details of these programs are listed under Administration on [Page 79](#). The Master of Business Administration can be found on [Page 379](#). The courses listed below are offered in support of these programs. Further information is available from the Department of Accounting and Finance.

COURSE OFFERINGS IN FINANCE (FIN)

Upper Division

Enrollment in upper-division courses restricted to students who have met all prerequisites and have completed at least 89.9 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

313. Business Finance

Basic principles of financial analysis for management. Techniques of financial decision-making for liquidity management, financial forecasting, dividend policy and selection of sources of capital. Prerequisites: ACCT 212 or 312, MSCI 210 and MATH 110. (4 units)

314. Corporate Financial Management

An advanced study of internal business financial policies and decisions. Includes: capital budgeting, sources and forms of long-term financing, financial structure, cost of capital, equity management, and mergers and acquisitions. Prerequisite: FIN 313. (4 units)

360. Financial Planning Process and Insurance

Modern money management with discussion of budgeting, banking, real estate, insurance, consumer credit, retirement, and estate planning. The course also examines the identification of risk exposures and the various tools used to address these risks. Prerequisite: FIN 313. (4 units)

380. Principles of Real Estate

Basic issues in real estate, including legal concepts, appraisal, financing, investment, brokerage, and management of real estate. This class also contributes toward the state requirements for pre-license education. Formerly FIN 580. Prerequisite: FIN 313 or consent of instructor. (4 units)

430. Financial Theory and Practice

Financial management with application to capital markets, financial planning, capital budgeting, capital structure, portfolio selection and managerial problems. Prerequisites: FIN 313 and 314. (4 units)

432. Financial Institutions and Capital Formation

Structure, operations, portfolio compositions and problems of financial intermediaries and markets. Prerequisites: FIN 313 and 314. (4 units)

433. International Business Finance

Financial operations of multinational businesses with emphasis on foreign exchange mechanics, funds transmission, financing instruments, institutions and markets, capital investment decisions and special problems facing a firm in this unique environment. Three hours lecture and two hours activity laboratory. Prerequisite: FIN 313. (4 units)

435. Investment Analysis

Analysis and forecasting of security markets, industry studies, portfolio construction. Three hours lecture and two hours activity laboratory. Prerequisites: FIN 313, 314 and 430. (4 units)

445. Financial Analysis and Decision-Making

Decision-making in financial management. Advanced financial applications and analysis, including reporting and presentations. Students are advised to take this course near the end of their program. Three hours lecture and two hours activity laboratory. Prerequisite: FIN 430. (4 units)

480. Real Estate Appraisal

Examines the appropriate methodology for determining the value of real estate, including both theory and practice. A foundation for potential licensing and certification will be developed. Meets requirement for California Broker Credit. Prerequisite: FIN 313. (4 units)

485. Legal Aspects of Real Estate

Legal aspects of real estate transactions will be emphasized. Legal considerations of listing contracts, purchase agreements, disclosure requirements, trust deeds, promissory notes and agency will be the key topics. Liability exposures to all parties will also be explored in the real estate transaction. California Broker credit can also be received. (4 units)

503. Financial Management Concepts

An introductory course in financial management with an emphasis on concepts, tools and strategies underlying corporate financial decision-making. Topics include techniques used by firms in procuring and allocating capital for short-term and long-term operations. No credit will be awarded to students who have had FIN 313 and 314. May not be counted toward fulfilling requirements for any degree program offered by the College of Business and Public Administration. Prerequisite: ACCT 503. (4 units)

534. Export-Import Financing

International complexities of exporting and importing. Emphasis on the benefits of international trade, the various ways to enter the global market, project financing, trading blocs and investment strategies, components of an export-import quotation, methods of payment, imports, exports, contracts and public and private assistance programs. Formerly FIN 434. Prerequisite: FIN 313. (4 units)

575. Internship in Finance

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

581. International Aspects of Real Estate

Study of international investment in real estate with emphasis on diversification of benefits including international real estate in an investment portfolio. Specific investment strategies and opportunities for different countries will be analyzed. (4 units)

585. Real Estate Finance

Financial aspects of real estate investment, including analysis of investment characteristics, lending environment, financial instruments, and effective loan proposals. Three hours lecture and two hours activity laboratory. Prerequisite: FIN 313 or consent of instructor. (4 units)

590. Seminar in Finance

An intensive study of some phase of finance to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

FOREIGN LANGUAGES AND LITERATURES

Department of Foreign Languages and Literatures

University Hall, Room 314
880-5847

FACULTY: Jacques Benzakein, Ruth Burke, Rafael Correa, Arturo Fernandez-Gilbert, M. Antonietta Gallegos-Ruiz, Mirta A. Gonzalez (Chair), Terri Nelson, Walter Oliver, D. Lehong Phan, Daniel Whitaker, Aurora Wolfgang, Barbara Zecchi

The Department of Foreign Languages and Literatures offers a wide variety of courses both in the foreign languages and in English. The foreign languages include American Sign Language, Arabic, French, German, Greek, Japanese, Latin, Mandarin and Spanish. Japanese, Mandarin and courses that apply comprehensively to all languages, including English, appear below. The offerings of French, German and Spanish can be found separately listed in alphabetical order within the undergraduate section of this catalog.

The principal objectives of the department's programs are to teach students to understand, speak, read and write the foreign languages offered; and to promote an understanding of foreign civilizations and an appreciation of their literatures. This background will prepare students to teach foreign languages and will provide language skills for those interested in positions such as librarian, interpreter, translator, foreign service officer and foreign trade specialist.

COURSE OFFERINGS IN FOREIGN LANGUAGES AND LITERATURES (FLAN)

Lower Division

100. English as a Second Language

Self-paced course designed to help students gain mastery of the English language at beginning, intermediate and advanced levels. No more than 10 units are applicable to a baccalaureate degree. Open only to foreign students for whom English is a second language. Prerequisite: consent of instructor. (4 units)

101. Language Study I

Introduction to a language not offered as a major or minor. Fundamentals of pronunciation, structure and culture designed to develop the ability to use and understand the chosen language. May be repeated for credit as topics change.

- A. American Sign Language (4 units)
- B. Arabic (4 units)
- C. Italian (4 units)
- D. Portuguese (4 units)

- E. Greek (4 units)
- F. Latin (4 units)
- G. Russian (4 units)

102. Language Study II

Further study in a language not offered as a major or minor. Fundamentals of pronunciation, structure and culture designed to develop the ability to use and understand the chosen language. May be repeated for credit as topics change. Prerequisite: FLAN 101 in the chosen language. (GE=C.3)

- A. American Sign Language (4 units)
- B. Arabic (4 units)
- C. Italian (4 units)
- D. Portuguese (4 units)
- E. Greek (4 units)
- F. Latin (4 units)
- G. Russian (4 units)

150. Intermediate Language Study

Intermediate study in a language not offered as a major or minor. Emphasis on oral and written competency at the intermediate level in a cultural context. May be repeated for credit as topics change. Prerequisite: two years of high school study in the chosen language or equivalent.

- A. American Sign Language (4 units)
- B. Arabic (4 units)
- C. Italian (4 units)
- D. Portuguese (4 units)
- E. Greek (4 units)
- F. Latin (4 units)
- G. Russian (4 units)

Upper Division

320. Masterpieces of Literature

Selected masterpieces and authors from Western Europe and Latin America. Course taught entirely in English. No foreign language prerequisite. May be repeated for credit as topics change. (4 units)

555. Independent Study

Independent study of individual writers and genres. Prerequisites: one 300-level course in the language under study or consent of instructor, a minimum overall grade point average of 3.0, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (4 units)

COURSE OFFERINGS IN JAPANESE (JAPN)

Lower Division

101. College Japanese I

Emphasizes listening and speaking skills with reading and writing as supporting skills. Students learn to formulate and respond to questions about their daily life, express preferences, as well as master the ability to list, enumerate, identify, compare, agree and disagree. Formerly a topic under FLAN 101. (4 units)

102. College Japanese II

Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Ability to describe events in present, near past and near future. Formerly a topic under FLAN 102. Prerequisite: JAPN 101 or consent of department. (GE=C.3) (4 units)

150. Intermediate Japanese

Develops listening and speaking skills with emphasis on reading and writing skills. Students should be able to negotiate routine social situations and more complex tasks. Ability to describe events in the past, present and future. Formerly a topic under FLAN 150. Prerequisite: JAPN 102 or consent of department. (GE=C.3) (4 units)

**COURSE OFFERINGS IN
MANDARIN (MAND)**

Lower Division

101. College Mandarin I

Emphasizes listening and speaking skills with reading and writing as supporting skills. Students learn to formulate and respond to questions about their daily life, express preferences, as well as master the ability to list, enumerate, identify, compare, agree and disagree. Formerly a topic under FLAN 101. (4 units)

102. College Mandarin II

Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Ability to describe events in present, near past and near future. Formerly a topic under FLAN 102. Prerequisite: MAND 101 or consent of department. (GE=C.3) (4 units)

150. Intermediate Mandarin

Develops listening and speaking skills with emphasis on reading and writing skills. Students should be able to negotiate routine social situations and more complex tasks. Ability to describe events in the past, present and future. Formerly a topic under FLAN 150. Prerequisite: MAND 102 or consent of department. (GE=C.3) (4 units)

FRENCH

Department of Foreign Languages and Literatures

University Hall, Room 314
880-5847

Bachelor of Arts

French

Teaching Credential Program

French

Minor

French

Certificate Program

French/English and English/French Translators

The study of French combines training in foreign studies with language, literature and culture. These studies contribute to the basis of any program of liberal education, affording insight into foreign attitudes and methods and permitting free communication, written and oral, among people.

In addition to the traditional preparation of teachers in the subject, a major in French can provide a good background for advanced professional or business programs, especially when combined with an appropriate second major.

Attention is drawn to other courses which may be of interest to French majors:

1. FLAN 320. Masterpieces of Literature
2. FLAN 555. Independent Study
3. HUM 380. Comparative Studies in the Arts: East and West
4. HUM 460. Cultural Studies
5. HUM 499. Methods and Materials in the Teaching of Humanities

B.A. IN FRENCH

Requirements:

Literature Track - 70 units

Culture Studies Track - 66 units

Business Track - 72 units

Total units required for graduation: 180

Requirements for the B.A. in French:

Core requirements (34 units)

1. Proficiency in French equal to that of French 150. Intermediate French or equivalent.
2. FREN 201. Conversation and Composition I (4)
3. FREN 202. Conversation and Composition II (4)
4. FREN 295. Intermediate Assessment (1)
5. FREN 303. Contemporary Spoken French (4)
6. FREN 307. Phonetics (4)
7. FREN 350. Advanced French Composition (4)
8. FREN 381. French Civilization I (4)
9. FREN 382. French Civilization II (4)

10. FREN 450. Grammatical Analysis (4)

11. FREN 496. Senior Assessment (1)

12. One of the following tracks:

Literature Track (36 units)

1. FREN 310. Approaches to Literature (4)
2. Sixteen units chosen from:
 - FREN 336. Francophone Women Writers (4)
 - FREN 360. Contemporary French Fiction (4)
 - FREN 370. Francophone Film and Culture (4)
 - FREN 411. Studies in the Novel (4)
 - FREN 412. Studies in Theater (4)
 - FREN 413. Studies in Poetry (4)
 - FREN 420. Special Topics in French Literature (4)
 - FREN 471. Culture and Identity (4)
2. Sixteen units chosen from:
 - FREN 250. Reading and Interpretation (4)
 - FREN 575. Internship (4)
 - HUM 312. Theories of Language Acquisition and Learning (4)
 Any upper-division French course.

Culture Studies Track (32 units)

1. Sixteen units chosen from:
 - FREN 370. Francophone Film and Culture (4)
 - FREN 407. Comparative Linguistics: French/English (4)
 - FREN 460. Contemporary France (4)
 - FREN 461. Contemporary Issues in the Francophone World (4)
 - FREN 470. Special Topics in Francophone Cultures (4)
 - FREN 471. Culture and Identity (4)
2. Sixteen units chosen from:
 - FREN 250. Reading and Interpretation (4)
 - FREN 575. Internship (4)
 - HUM 312. Theories of Language Acquisition and Learning (4)
 Any upper-division French course

Business Track (38 units)

1. FREN 309B. French for Translators: Commercial Translation (2)
2. FREN 409. Business French (4)
3. Eight units chosen from:
 - FREN 309A. French for Translators: General Translation (4)
 - FREN 309C. French for Translators: Technical Translation (4)
 - FREN 460. Contemporary France (4)
 - FREN 461. Contemporary Issues in the Francophone World (4)
 - FREN 471. Culture and Identity (4)
4. Sixteen units taken in the College of Business and Public Administration:
 - ACCT 211. Introductory Accounting I (4)
 - INFO 101. Introduction to Information Technology (4)
 - MGMT 302. Management and Organizational Behavior (4)
 - MKTG 305. Marketing Principles (4)

5. Electives (8 units) chosen from A or B below:
- Eight upper-division units chosen from a specific area in accounting, information management, management or marketing.
 - Four upper-division units chosen from one of these areas **and**
FREN 575. Internship (4)

TEACHING CREDENTIAL PROGRAM

The Bachelor of Arts in French is an approved single subject teaching credential program in foreign language. In order to be recommended for the teaching credential, students must complete the Bachelor of Arts in French and certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program or specific requirements of the single subject waiver program, see [Page 161](#) or contact the Credentials Office (C.A.S.E.).

MINOR IN FRENCH

Requirements (33 units)

Requirements for a minor in French:

- Proficiency in French equal to that of FREN 150. Intermediate French or equivalent.
- FREN 201. Conversation and Composition I (4)
- FREN 202. Conversation and Composition II (4)
- Four units chosen from:
 - FREN 250. Reading and Interpretation (4)
 - FREN 310. Approaches to Literature (4)
- FREN 295. Intermediate Assessment (1)
- Eight units chosen from:
 - FREN 303. Contemporary Spoken French (4)
 - FREN 307. Phonetics (4)
 - FREN 309A. French for Translators: General Translation (4)
 - FREN 350. Advanced French Composition (4)
- Twelve units chosen from any upper-division French courses.

DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in French after meeting the following requirements:

- Earned a 3.5 grade point average in the major.
- Completed at least 45 units of the major at this university.
- Successful completion of an oral and written honors evaluation.

Qualified students should apply for honors recognition during the first week of the quarter in which they are enrolled in FREN 496. The honors evaluation will take place during FREN 496. Exceptional performance on the oral and written evaluation may result in the waiving of requirements one and two above.

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate for French/English and English/French Translators

Certificate Requirements (25 units)

- Proficiency in French equal to that of FREN 150. Intermediate French or equivalent.
- Four units chosen from:
 - FREN 250. Reading and Interpretation (4)
 - FREN 310. Approaches to Literature (4)
- FREN 295. Intermediate Assessment (1)
- FREN 309A. French for Translators: General Translation (4)
- FREN 309B. French for Translators: Commercial Translation (2)
- FREN 309C. French for Translators: Technical Translation (2)
- FREN 350. Advanced French Composition (4)
- Four units chosen from:
 - FREN 382. French Civilization II (4)
 - FREN 460. Contemporary France (4)
 - FREN 461. Contemporary Issues in the Francophone World (4)
- Four units chosen from:
 - EDUC 306. Expository Writing for Education (4)
 - ENG 306. Expository Writing (4)
 - HUM 306. Expository Writing for the Humanities (4)
 - MGMT 306. Expository Writing for Administration (4)
 - NSCI 306. Expository Writing for the Natural Sciences (4)
 - SSCI 306. Expository Writing for the Social Sciences (4)

COURSE OFFERINGS IN FRENCH (FREN)

Lower Division

Courses at the 101, 102 and 150 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

101. College French I

Emphasizes listening and speaking, with reading and writing as supporting skills. Students learn to formulate and respond to questions about their daily life, express preferences, as well as master the ability to list, enumerate, identify, compare, agree and disagree. (4 units)

102. College French II

Develops listening and active speaking skills with further development of reading and writing skills while expanding vocabulary of daily life. Ability to describe events in present, near past and near future. Prerequisite: FREN 101 or consent of department. (GE=C.3) (4 units)

150. Intermediate French

Develops listening and speaking with emphasis on reading and writing skills. Student would be able to negotiate routine social situations and more complex tasks. Ability to recount events in the past, present and future. Prerequisite: FREN 102 or consent of department. (GE=C.3) (4 units)

200. Culture and Communication

Intermediate-level course in French culture and in the four language skills—oral comprehension, speaking, reading, and writing—designed to prepare students for the required courses in the core. Prerequisite: FREN 150 or equivalent. (GE=C.3) (4 units)

201. Conversation and Composition I

Second-year course to build proficiency in listening, speaking, reading and writing while enhancing knowledge of French-speaking world. May not be taken for credit by students who have received credit for FREN 104 and 212. Prerequisite: FREN 150 or consent of department. (GE=C.3) (4 units)

202. Conversation and Composition II

Second-year course to increase proficiency in listening, speaking, reading and writing while enhancing knowledge of the French-speaking world. Formerly FREN 214. Prerequisite: FREN 201 or consent of department. (GE=C.3) (4 units)

250. Reading and Interpretation

Concentration on reading and interpretive writing skills in preparation for upper-division coursework in French. Prerequisite: FREN 202 or consent of department. (4 units)

290. French Literature in English

Introduction to French literature read in English translation. (GE=C.3) (4 units)

295. Intermediate Assessment

Oral and written assessment of basic language skills and inception of an assessment portfolio. Satisfactory completion (ACTFL level 2+) is required for enrollment in all upper-division French courses except FREN 303 and 307. Graded credit/no credit. Corequisite: FREN 250. (1 unit)

Upper Division

Ordinarily, upper-division courses are conducted in French. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

303. Contemporary Spoken French

Practice of contemporary spoken French through the reading and discussion of current topics in the French-speaking world. Formerly FREN 340. Prerequisite: FREN 202 or consent of department. (4 units)

307. Phonetics

In-depth study of the French sound system. Oral practice and study of general principles of French phonology and dialectology. Formerly FREN 306. Prerequisite: FREN 202 or consent of department. (4 units)

309. French for Translators

Extensive practice in precise written translations from French into English and from English into French. May be repeated for credit as topics change. Prerequisites: FREN 250 and 295 or consent of department.

A. General Translation. (4 units)

B. Commercial Translation. May be taken concurrently with FREN 309C. (2 units)

C. Technical Translation. May be taken concurrently with FREN 309B. (2 units)

310. Approaches to Literature

Introduction to a variety of approaches to literature; how to read, interpret, understand, and explain a variety of literary genres (short stories, novels, poetry, theatre). Prerequisite: FREN 295. FREN 350 strongly recommended. (4 units)

336. Francophone Women Writers

Exploration of selected works by Francophone women writers, with emphasis on issues in women's lives. Prerequisites: FREN 295; and 250 or 310; or consent of instructor. (4 units)

350. Advanced French Composition

Improvement of writing skills with emphasis on style and structure of French prose. Formerly FREN 302. Prerequisites: FREN 250 and 295 or consent of department. (4 units)

360. Contemporary French Fiction

Exploration of fictional works by Francophone authors published since 1980. Particular attention will focus on how contemporary issues are revealed through these novels. Prerequisites: FREN 295; and 250 or 310; or consent of instructor. (4 units)

370. Francophone Film and Culture

Analysis and historical examination of Francophone cultures, literatures and themes through French-language films. Prerequisites: FREN 295; and 250 or 310; or consent of instructor. (4 units)

381. French Civilization I

Explores the national identity of the French people, as reflected in the arts and social and political institutions, from the Middle Ages to the Enlightenment. Prerequisites: FREN 250 and 295 or consent of department. (4 units)

382. French Civilization II

Explores the national identity of the French people as reflected in the arts and social and political institutions in the nineteenth and twentieth centuries. Prerequisites: FREN 250 and 295 or consent of department. (4 units)

399. Community Service Project

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)

407. Comparative Linguistics: French/English

Application of modern linguistic theory to the problems of second-language acquisition in the areas of phonology, morphology, and syntax. Emphasis on practical implementation for teaching purposes. Prerequisites: FREN 250, 295 and 307 or consent of department. (4 units)

409. Business French

Introduction to commercial institutions and socioeconomic aspects of contemporary France; development of useful vocabulary in commercial French. Prerequisites: FREN 250 and 295 or consent of department. FREN 309B strongly recommended. (4 units)

411. Studies in the Novel

Analysis of major novels written in French from various periods and Francophone cultures. Prerequisites: FREN 250, 295 and 310 or consent of department. FREN 350 strongly recommended. (4 units)

412. Studies in Theater

Reading and discussion of representative dramatic works written in French from the seventeenth to the twentieth century. Prerequisites: FREN 250, 295 and 310 or consent of department. FREN 350 strongly recommended. (4 units)

413. Studies in Poetry

Introduction to poetry as a genre, principles of French versification. Major contributions of Francophone poets. Prerequisites: FREN 250, 295 and 310 or consent of department. FREN 350 strongly recommended. (4 units)

420. Special Topics in French Literature

Critical examination of selected works in Francophone literature focusing on a particular theme or literary movement. May be repeated for credit as topics change. Prerequisites: FREN 250, 295 and 310 or consent of department. FREN 350 strongly recommended. (4 units)

450. Grammatical Analysis

An intensive review of advanced French grammar, including vocabulary building, proficiency in the written and spoken language. Prerequisites: FREN 250, 295 and 350 or consent of department. (4 units)

460. Contemporary France

Focus on society, politics and institutions of the Fifth Republic. Prerequisites: FREN 295; and 250 or 310; and 382; or consent of department. (4 units)

461. Contemporary Issues in the Francophone World

Issues affecting the contemporary Francophone world, such as colonialism, regionalism, women's issues, intellectual movements, education and the arts. Prerequisites: FREN 250 and 295 or consent of department. FREN 350 strongly recommended. (4 units)

470. Special Topics in Francophone Cultures

Critical examination of selected Francophone works focusing on a particular aspect of Francophone society or historical period. May be repeated for credit as topics change. Prerequisites: FREN 295; and 250 or 310; and 381 or 382; or consent of instructor. (Credit to be arranged: 2 or 4 units)

471. Culture and Identity

Exploration of how Francophone literature, film, and histories can reveal cultural identities as well as analyses of how authors express their identities through these media. Particular attention will be paid to the development of post-colonial issues. Prerequisites: FREN 295; and 250 or 310; and 381 or 382; or consent of instructor. (4 units)

496. Senior Assessment

Oral and written evaluation of proficiency in the five skill areas: listening, speaking, reading, writing and culture. Level of satisfactory performance: ACTFL Level 3 (Advanced). Submission of a student portfolio assessing and documenting academic progress since the intermediate assessment. Graded credit/no credit. *Prerequisite: must be taken after completing the core and prior to enrolling in the last 12 units of the major.* (1 unit)

514. Seminar in French Language, Literature or Civilization

Advanced study of a single author, a literary movement, linguistics or civilization. May be repeated for credit as topics change. *Prerequisite: one 400-level French course.* (4 units)

575. Internship

Practicum offers students wishing to pursue careers in foreign language teaching an opportunity to observe and work with approved teaching professionals in the classroom. Generally assumes 120 hours of work/study for 4 units of credit. Graded credit/no credit. *Prerequisites: FREN 250 and 295, and consent of department.* (4 units)

GEOGRAPHY

Department of Geography

Social and Behavioral Sciences Building, Room 327J
880-5519

Bachelor of Arts

Geography - Track A
Geography: Geographic Analysis—
Spatial/Technical - Track B
Geography: Social Science Teaching Credential
(Single Subject) - Track C

Minor

Geography

Certificate Program

Urban Planning

FACULTY: Jeffrey Hackel, Mark Kumler, Ted McDowell, Norman Meek, James Mulvihill (Chair), Richard Rowland, Jenny Zorn

Geography is concerned with the spatial variations and interrelationships between the natural and cultural features of the earth. Geographers study the earth primarily as the home of human beings. As an approach to knowledge, geography forms an interdisciplinary bridge between the physical and cultural worlds, examining both humans and their environment. As a synthesizing discipline, geography is an especially attractive major for liberal arts and science students. Its body of theory and methodologies provides an analytic technique applicable to a wide range of questions. For students planning to terminate their formal education with a bachelor's degree, it also provides both the regional and world perspective required of responsible citizens. For the same reasons, geography is especially valuable for those who plan to do graduate work. Geography offers job opportunities in teaching, business, government, armed forces, conservation and water resources, planning and market research, geographic information systems (GIS) and international organizations.

Students who can meet the qualifications are also encouraged to participate in the California State University's International Programs. Such participation will not only contribute immediately to the student's geographical knowledge and degree program, but may have longer-term educational and career benefits as well. For further information, see [Page 25](#).

B.A. IN GEOGRAPHY - TRACK A

Requirements (62 units)

Total units required for graduation: 180

Requirements for the B.A. in Geography - Track A:

Lower-division requirements (19 units)

1. GEOG 100. Introduction to Human Geography (4)
2. GEOG 103. Physical Geography (5)
3. GEOG 201. Map Interpretation (2)

4. GEOG 205. Geographical Statistics (4)
5. SSCI 165. Regions and Peoples of the World (4)

Upper-division requirements (43 units)

1. GEOG 301. Introduction to Geographic Information Systems and Mapping (5)
2. GEOG 380. Population Geography (4)
3. GEOG 420. Geography of Economic Activity (4)
4. GEOG 500. Senior Seminar (2)
5. Eight units chosen from:
 - GEOG 304. Field Methods in Geography (4)
 - GEOG 305. Geographic Research Methods (4)
 - GEOG 306. Remote Sensing of Environment (4)
 - GEOG 401. Advanced Geographic Information Systems (5)
 - GEOG 402. Geographic Information Systems Applications (5)
6. Four units chosen from:
 - GEOG 309. Area Study: Former and Post-Soviet Union (4)
 - GEOG 310. Area Study: Africa (4)
 - GEOG 321. Area Study: Latin America (4)
 - GEOG 323. Area Study: North America (4)
7. Eight units chosen from:
May choose only one of the following two courses:
 - GEOG 360. Weather and Climate (4)
 - GEOG 365. Climate Change (4)
 - GEOG 460. Biogeography (4)
 - GEOG 470. Hydrology and Water Resources (4)
 - GEOG 480. Geomorphology (4)
8. Eight units of upper-division course work in geography chosen in consultation with a departmental advisor. Only four of these units may be drawn from the area studies group.

B.A. IN GEOGRAPHY: GEOGRAPHIC ANALYSIS— SPATIAL TECHNICAL - TRACK B

Requirements (68 units)

Total units required for graduation: 180

Requirements for the B.A. in Geography: Geographic Analysis—Spatial/Technical - Track B:

Lower-division requirements (15 units)

1. GEOG 100. Introduction to Human Geography (4)
2. GEOG 103. Physical Geography (5)
3. GEOG 201. Map Interpretation (2)
4. GEOG 205. Geographical Statistics (4)

Upper-division requirements (53 units)

1. GEOG 301. Introduction to Geographic Information Systems and Mapping (5)
2. GEOG 380. Population Geography (4)
3. GEOG 415. Urban Planning and Land Development (4)
4. GEOG 420. Geography of Economic Activity (4)
5. GEOG 500. Senior Seminar (2)

6. A minimum of 22 units chosen from:
 - GEOG 304. Field Methods in Geography (4)
 - GEOG 305. Geographic Research Methods (4)
 - GEOG 306. Remote Sensing of Environment (4)
 - GEOG 401. Advanced Geographic Information Systems (5)
 - GEOG 402. Geographic Information Systems Applications (5)
 - GEOG 403. Advanced Map Design (5)
7. Four units chosen from:
 - GEOG 309. Area Study: Former and Post-Soviet Union (4)
 - GEOG 310. Area Study: Africa (4)
 - GEOG 321. Area Study: Latin America (4)
 - GEOG 323. Area Study: North America (4)
8. Eight units chosen from:

May choose only one of the following two courses:

 - GEOG 360. Weather and Climate (4)
 - GEOG 365. Climate Change (4)
 - GEOG 460. Biogeography (4)
 - GEOG 470. Hydrology and Water Resources (4)
 - GEOG 480. Geomorphology (4)

B.A. IN GEOGRAPHY: SOCIAL SCIENCE TEACHING CREDENTIAL OPTION - TRACK C

Requirements (118 units)

Total units required for graduation: 180

Requirements for the B.A. in Geography: Social Science Teaching Credential Option - Track C:

Core Requirements (93 units)

1. ANTH 102. Introduction to Anthropology: Culture and Society (4 units)
2. Four units chosen from:
 - ANTH 140. World Civilization I, the Rise of Civilization (4)
 - HIST 140. World Civilization I, the Rise of Civilization (4)
3. ECON 104. Economics of Social Issues (4)
4. ECON 200. Principles of Microeconomics (4)
5. ECON 202. Principles of Macroeconomics (4)
6. GEOG 103. Physical Geography (5)
7. Four units chosen from:
 - GEOG 100. Introduction to Human Geography (4)
 - SSCI 165. Regions and Peoples of the World (4)
8. GEOG 302. Geography of California (4)
9. HIST 142. World Civilization II, the Civilizations of the East and West (4)
10. HIST 144. World Civilization III, the Expansion of Europe (4)
11. HIST 200. United States History to 1877 (4)
12. HIST 201. United States History, 1877 to the Present (4)
13. HIST 370. History of California (4)
14. Four units chosen from:
 - PHIL 192. Introduction to Philosophy of Religion (4)
 - PHIL 193. Introduction to Eastern Philosophy (4)
15. PSCI 203. American Government (4)
16. PSCI 330. State and Local Politics (4)
17. PSYC 100. Introduction to Psychology (4)
18. SOC 100. The Study of Society (4)
19. Four units chosen from:
 - GEOG 380. Population Geography (4)
 - GEOG 420. Geography of Economic Activity (4)
20. Four units chosen from:
 - GEOG 309. Area Study: Former and Post-Soviet Union (4)
 - GEOG 310. Area Study: Africa (4)
 - GEOG 321. Area Study: Latin America (4)
21. Four units chosen from:
 - GEOG 323. Area Study: North America (4)
 - GEOG 330. The Geography of Gender (4)
 - GEOG 415. Urban Planning and Land Development (4)
 - GEOG 440. Understanding the City (4)
22. Four units chosen from:
 - HIST 350. The American Colonies, 1607-1783 (4)
 - HIST 351. The Evolution of American Democracy, 1783-1840 (4)
 - HIST 354. Civil War and Reconstruction (4)
 - HIST 356. The United States, 1877-1917 (4)
 - HIST 357. The United States, 1917-1945 (4)
 - HIST 359. The United States Since 1945 (4)
 - HIST 540. Constitutional History of the United States (4)
 - HIST 556. Foreign Relations of the United States (4)
23. Four units chosen from:
 - HUM 325. Perspectives on Gender (4)
 - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 - HUM 370. African Heritage in the Arts (4)
 - HUM 380. Comparative Studies in the Arts: East and West (4)
 - NSCI 325. Perspectives on Gender (4)
 - SSCI 316. Race and Racism (4)
 - SSCI 325. Perspectives on Gender (4)
 - SSCI 350. Roots of Modern Racism in America (4)

Geography requirements (25 units):

1. GEOG 201. Map Interpretation (2)
2. GEOG 301. Introduction to Geographic Information Systems and Mapping (5)
3. GEOG 500. Senior Seminar (2)
4. A minimum of four units chosen from:
 - GEOG 304. Field Methods in Geography (4)
 - GEOG 305. Geographic Research Methods (4)
 - GEOG 306. Remote Sensing of Environment (4)
 - GEOG 401. Advanced Geographic Information Systems (5)
 - GEOG 402. Geographic Information Systems Applications (5)
 - GEOG 403. Advanced Map Design (5)

5. Eight units chosen from:
May choose only one of the following two courses:
GEOG 360. Weather and Climate (4)
GEOG 365. Climate Change (4)
GEOG 460. Biogeography (4)
GEOG 470. Hydrology and Water Resources (4)
GEOG 480. Geomorphology (4)
6. Four units of upper division course work in geography and/or related fields chosen in consultation with a departmental advisor.

MINOR IN GEOGRAPHY

Requirements (33 units)

Requirements for a minor in Geography:

Lower-division requirements (9 units)

1. GEOG 100. Introduction to Human Geography (4)
2. GEOG 103. Physical Geography (5)

Upper-division requirements (24 units)

1. GEOG 420. Geography of Economic Activity (4)
2. Twenty units chosen from any upper-division geography courses chosen in consultation with a departmental advisor. Only four of these units may be drawn from the area studies group.

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Refer to [Page 61](#) for additional certificate information.

Certificate in Urban Planning

Certificate Requirements (24 units)

1. GEOG 301. Introduction to Geographic Information Systems and Mapping (5)
2. GEOG 306. Remote Sensing of Environment (4)
3. Four units chosen from:
GEOG 350. Conservation and Natural Resources (4)
ECON 360. Economics of the Environment (4)
4. GEOG 415. Urban Planning and Land Development (4)
5. GEOG 440. Understanding the City (4)
6. Four units chosen from:
ANTH 493. Urban Anthropology (4)
GEOG 575. Internship in Geography (4)
HSCI 478. Environmental Health Management (4)
PA 521. Principles of Planning (4)
SOC 420. Population and Social Ecology (4)
SOC 430. Urban Sociology (4)

COURSE OFFERINGS IN GEOGRAPHY (GEOG)

Lower Division

100. Introduction to Human Geography

Introduction to the global patterns and dynamics of such human activities as population growth and movements, politics, religion, language, urbanization, industrialization, and economic development. The course emphasizes the processes that produce regional and environmental differences. (GE=D.4) (GEOG 100=CAN GEOG 4) (4 units)

T. Introduction to the geographic study of human activities throughout the world. The instructor uses methods suitable for kindergarten through college classrooms. Intended for students in the B.A. in Liberal Studies, Accelerated Track. (4 units)

103. Physical Geography

Systematic approach to the physical environment of man stressing the relationships between the atmosphere, land, life forms and water. Four hours lecture and three hours laboratory. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B.3) (GEOG 103=CAN GEOG 6) (5 units)

201. Map Interpretation

Basic introduction to skills and reasoning ability needed to appreciate and use maps as professional tools. Course will focus on map reading in the environment. Participation in a weekend outdoor map reading exercise is required. Formerly GEOG 300. (2 units)

205. Geographical Statistics

Introduction to basic statistical concepts and procedures used in geography, including spatial analysis. This course uses a computer statistical program. (4 units)

Upper Division

301. Introduction to Geographic Information Systems and Mapping

An introduction to the fundamental principles and theories involved in working with geographic data within a geographic information system (GIS). Basic mapping concepts of scale, generalization, classification, map projections, coordinate systems, and spatial analysis are covered. Four hours lecture and three hours laboratory. (5 units)

302. Geography of California

Systematic and regional study of California geography stressing general geographical concepts to explain sequential human settlement patterns in relation to the natural environment. (4 units)

304. Field Methods in Geography

Introduction to methods and techniques for the acquisition of geographic data from direct field measurement and observations. One hour lecture and six hours field activity. Prerequisites: GEOG 103 and 201 (300). (4 units)

305. Geographic Research Methods

Quantitative methods in geography including computer applications and the writing of geographic research reports. Prerequisite: GEOG 205 or any introductory statistics course. (4 units)

306. Remote Sensing of Environment

Interpretation of environmental phenomena recorded by satellite and aerial multispectral sensing systems, especially conventional aerial photography. Prerequisite: GEOG 103 or consent of instructor. (4 units)

309. Area Study: Former and Post-Soviet Union

Regional analysis of socio-economic development and environmental problems. (4 units)

310. Area Study: Africa

Regional analysis of socio-economic development and environmental problems. (4 units)

321. Area Study: Latin America

Regional analysis of socio-economic development and environmental problems. (4 units)

323. Area Study: North America

Systematic examination of the physical and cultural geography of North America, stressing the relationships between the natural environment and human settlement and economic patterns. (4 units)

330. The Geography of Gender

Spatial analysis of social, political, and economic factors associated with gender relations and demographic patterns in the United States. An exploration of the causes of regional and spatial variations in gender patterns. (4 units)

340. Political Geography

An examination of contemporary problems in the spatial patterns of political processes at the international, interregional and urban scales. (4 units)

350. Conservation and Natural Resources

Principles of resource utilization and ecology as they involve human development and politico-economic policy. (4 units)

360. Weather and Climate

An examination of atmospheric processes and the relationships between the atmosphere, hydrosphere, lithosphere and biosphere that influence local, regional and global patterns of weather and climate. Relationships between human activity, vegetation patterns, weather and climate will be discussed. Prerequisite: GEOG 103 or consent of instructor. (4 units)

365. Climate Change

An examination of past climates, modern climates and evidence for future climate change. Students are required to attend two weekend field trips. Formerly a topic under GEOG 390. Prerequisite: GEOG 103 or GEOL 101. (4 units)

380. Population Geography

Spatial distribution and redistribution of population; interrelationships between population and the environment, including techniques of analysis. (4 units)

390. Selected Topics in Geography

Examination of selected topics of current interest in geography. May be repeated for credit as topics change. (4 units)

392. Selected Topics in Geography

Examination of selected topics of current interest in geography. May be repeated for credit as topics change. (2 units)

401. Advanced Geographic Information Systems

Advanced study of the principles and theories involved in working with geographic data within a geographic information system (GIS). Emphasis on the input, storage, manipulation, and analysis of geographic data. Four hours lecture and three hours laboratory. Prerequisite: GEOG 301 or consent of instructor. (5 units)

402. Geographic Information Systems Applications

An examination of case studies in which geographic information systems (GISs) have been used to address environmental problems. Individual and/or group projects required. Four hours lecture and three hours laboratory. Formerly a topic under GEOG 390. Prerequisite: GEOG 301 or consent of instructor. (5 units)

403. Advanced Map Design

Map compilation, design, and production using modern digital techniques. Emphasis on the effective display of geographic data. Four hours lecture and three hours laboratory. Formerly GEOG 303. Prerequisite: GEOG 301 or consent of instructor. (5 units)

406. Digital Image Processing

Geographic manipulation and interpretation of multispectral scanner data from satellites, radar and other digital image sources with the aid of computers. Prerequisite: GEOG 306 or consent of instructor. (4 units)

415. Urban Planning and Land Development

Comprehensive urban planning and land use controls. Emphasis on impact of urban development in North America. (4 units)

420. Geography of Economic Activity

Analysis of concepts of location, interaction and regionalization as they apply to economic activity. Special emphasis on economic growth and modernization. (4 units)

440. Understanding the City

A study of the physical and social attributes of the North American city. Emphasis is placed on urban planning and policy making. (4 units)

460. Biogeography

Investigation of plants and animals according to their environmental and spatial relationships. Biogeographic theory and regions will be examined; agents of biotic distribution and human influences will be noted. Prerequisites: upper-division standing, GEOG 103, and BIOL 201 or 202; or consent of instructor. (4 units)

470. Hydrology and Water Resources

Basic principles of hydrology: relationships between atmospheric, surface and groundwater phenomena; streamflow and flood prediction; water supply and quality. Prerequisite: GEOG 103 or consent of instructor. (4 units)

480. Geomorphology

Landforms and the processes that create them. Multi-day field trip required. Prerequisite: GEOG 103 or GEOL 101 or consent of instructor. (4 units)

500. Senior Seminar

An assessment of academic progress, required of all geography majors, will be made by completing a research paper and assembling an academic portfolio of completed coursework. Graded A, B, C/no credit. Prerequisites: senior standing in geography and permission of department. (2 units)

575. Internship in Geography

Supervised work in public or private organizations emphasizing practical applications of geographic concepts. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (5 units)

595. Independent Study

A total of eight units in GEOG 595 may be applied toward the major and graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 4 units)

Graduate level courses can be found on [Page 466](#).

GEOLOGY

Department of Geological Sciences

Biological Science Building, Room 122A
880-5336

Bachelor of Arts

Geology

Bachelor of Science

Geology

Geology Option

Environmental Geology Option

Teaching Credential Preparation Program

Geoscience Emphasis

Minor

Geology

FACULTY: Bonnie J. Brunkhorst, Louis A. Fernández,
Joan E. Fryxell, W. Britt Leatham, Sally F. McGill,
Alan L. Smith (Chair)

The study of geology is twofold: 1) geologists attempt to understand the physical and biological processes that affect and are recorded in rocks, minerals, and earth materials; and 2) geologists use that information to decipher the development of our planet. Much of the information geologists use is obtained by careful, systematic field work, which is an inherent requirement for geological studies.

Geology is a broad science that integrates with other classical sciences and disciplines such as chemistry, physics, biology, mathematics, computer science, and geography. Coursework in those disciplines, integrated within a geological framework, provides students with a broad, marketable understanding.

The B.S. degree is recommended for students planning to become professional geologists employed by environmental and geotechnical firms, governmental agencies, oil and mining companies and for those students planning to pursue a graduate degree in geology.

Both the B.S. and B.A. degrees are suitable for students planning a career in K-12 science teaching or environmental law. Students should be aware that additional courses beyond the B.S. and B.A. are required for the Teaching Credential Preparation program.

B.A. IN GEOLOGY

Requirements (85-88 units)

Total units required for graduation: 180

Requirements for the B.A. in Geology:

Lower-division requirements (37-40 units)

1. A minimum of five units chosen from:
 - CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
 - CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. GEOL 101. Introductory Geology (5)

3. GEOL 250. Historical Geology (5)
4. MATH 211. Basic Concepts of Calculus (4)
5. A minimum of 13 units chosen from Group A or B below:

Group A:

- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

Group B:

- PHYS 221. General Physics I (5)
 - PHYS 222. General Physics II (5)
 - PHYS 223. General Physics III (5)
6. BIOL 200. Biology of the Cell (5)

Upper-division requirements (48 units)

1. GEOL 301. Introduction to Geologic Mapping (4)
2. GEOL 310. Regional Field Geology (2)
3. GEOL 312. Geology of California (4)
4. GEOL 320. Mineralogy and Crystallography (5)
5. GEOL 322. Introduction to Geochemistry (3)
6. GEOL 325. Igneous and Metamorphic Petrology (5)
7. GEOL 330. Sedimentary Petrology (5)
8. GEOL 340. Stratigraphy (5)
9. GEOL 350. Paleontology (5)
10. GEOL 360. Structural Geology (5)
11. GEOL 370. Tectonics (4)
12. GEOL 590. Senior Seminar (1)

B.S. IN GEOLOGY

Requirements (118 units)

Total units required for graduation: 186

Requirements for the B.S. in Geology:

Lower-division requirements (54 units)

1. Five units chosen from:
 - BIOL 100. Topics in Biology (5)
 - BIOL 200. Biology of the Cell (5)
2. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
3. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
4. GEOL 101. Introductory Geology (5)
5. GEOL 250. Historical Geology (5)
6. MATH 211. Basic Concepts of Calculus (4)
7. MATH 212. Calculus II (4)
8. Four units chosen from:
 - MATH 262. Applied Statistics (4)
 - MATH 305. Statistics: Hypothesis Testing and Estimation (4)
9. PHYS 221. General Physics I (5)
10. PHYS 222. General Physics II (5)
11. PHYS 223. General Physics III (5)

Upper-division requirements (64 units)

1. GEOL 301. Introduction to Geologic Mapping (4)
2. GEOL 320. Mineralogy and Crystallography (5)
3. GEOL 321. Optical Mineralogy (2)
4. GEOL 322. Introduction to Geochemistry (3)
5. GEOL 325. Igneous and Metamorphic Petrology (5)

6. GEOL 330. Sedimentary Petrology (5)
7. GEOL 340. Stratigraphy (5)
8. GEOL 360. Structural Geology (5)
9. GEOL 390. Field Camp (8)
10. GEOL 590. Senior Seminar (1)

General Geology Option (21 units)

1. GEOL 310. Regional Field Geology (2)
2. GEOL 312. Geology of California (4)
3. GEOL 350. Paleontology (5)
4. GEOL 370. Tectonics (4)
5. Two units chosen from:
 - GEOL 395. Directed Studies (2)
 - GEOL 575. Internship in Geology (2)
6. Four units chosen from:
 - GEOG 301. Introduction to Geographic Information Systems and Mapping (5)
 - GEOG 470. Hydrology and Water Resources (4)
 - GEOG 480. Geomorphology (4)
 - GEOL 375. Groundwater Hydrology (4)
 - GEOL 430. Engineering Geology (5)
 - GEOL 460. Topics in Applied Geology (4)
 - GEOL 540. Advanced Topics in Geology (4)

Environmental Geology Option (21 units)

1. GEOG 470. Hydrology and Water Resources (4)
2. GEOL 375. Groundwater Hydrology (4)
3. GEOL 376. Field Methods in Hydrology (4)
4. GEOL 430. Engineering Geology (5)
5. Four units chosen from:
 - CHEM 206. Organic Chemistry (5)
 - GEOG 301. Introduction to Geographic Information Systems and Mapping (5)
 - GEOG 480. Geomorphology (4)
 - GEOL 312. Geology of California (4)
 - GEOL 540. Advanced Topics in Geology (4)
 - GEOL 575D. Internship in Geology (4)
 - HSCI 357. Hazardous Material Control (4)

TEACHING CREDENTIAL PREPARATION PROGRAM

Teaching Credential Preparation Program Subject Matter Preparation Program in Science: Geosciences

Students wishing to be recommended for a single subject teaching credential in science with a concentration in the geosciences must, either as part of the requirements for the Bachelor of Arts or Bachelor of Sciences in Geology or as electives in addition to the requirements for the degree, take the following courses:

1. One full year of biology coursework, such as:
 - BIOL 200. Biology of the Cell (5)
 - BIOL 201. Biology of Organisms (5)
 - BIOL 202. Biology of Populations (5)
2. One full year of chemistry coursework, such as:
 - CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
 - CHEM 215. General Chemistry: Atomic Structure and Chemical Bonding (6)

- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- 3. GEOL 306. Oceans and Atmospheres for the Science Teacher (3)
- 4. NSCI 300. Science and Technology (4)
- 5. PHYS 103. Descriptive Astronomy (5)

In addition, certain prerequisites and professional education courses are required. For information about admission to the teacher education program, education courses required or the specific requirements of the single subject credential program, see [Page 161](#) or contact the Credentials Office and the Department of Science, Mathematics and Technology Education in the College of Education.

MINOR IN GEOLOGY

Requirements (35 units)

Requirements for a minor in Geology:

Lower-division requirements (20 units)

1. GEOL 101. Introductory Geology (5)
2. GEOL 250. Historical Geology (5)
3. A minimum of five units chosen from:
 - CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
 - CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
4. A minimum of five units chosen from:
 - PHYS 121. Basic Concepts of Physics I (5)
 - PHYS 221. General Physics I (5)

Upper-division requirements (15 units)

1. A minimum of 15 units of upper-division geology courses. These units may not include GEOL 304, 305 or 306.

DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in geology after meeting the following requirements:

1. A grade-point average of at least 3.5 in all geology courses, with a minimum of five geology courses taken at this university;
2. Satisfactory completion of GEOL 595. Independent Study;
3. Presentation of the results of the independent study to the department or at a professional meeting.

COURSE OFFERINGS IN GEOLOGY (GEOL)

The quarters listed for course offerings are tentative.

Lower Division

101. Introductory Geology (FWS)

An introduction to the study of the earth, particularly the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. Four hours lecture and three hours laboratory. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B.3) (GEOL 101=CAN GEOL 2) (5 units)

210. Earthquakes: Science and Public Policy (FWS)

An introduction to the scientific study of earthquakes, the assessment of seismic hazards, earthquake engineering, and the physical and sociological effects of earthquakes. Various public policies aimed at mitigating earthquake hazards and attempts at earthquake prediction will also be examined. (GE=B.5) (2 units)

250. Historical Geology (S-03)

Study of the origin and evolution of the earth and its life forms as interpreted from the rock and fossil record. Four hours lecture and three hours laboratory. Overnight field trips may be required. (GEOL 250=CAN GEOL 4) (5 units)

295. Special Projects in Geology (FWS)

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of instructor. (Credit to be arranged: 1 or 2 units)

Upper Division**301. Introduction to Geologic Mapping (F-03)**

Field identification of igneous, sedimentary, and metamorphic rock units, sample collection, making rock descriptions, use of Brunton compass, pace and compass technique, topographic map reading, location determination, measuring geological features (e.g., strike and dip of bedding, lineation and foliation in metamorphic rocks), plotting geologic features on a topographic map, geologic symbol and notation conventions, topographic profile construction, geologic cross section construction and interpretation, geologic field note taking, and preparing geologic reports. Overnight field trips may be required. Two hours lecture and six hours laboratory. Prerequisite: GEOL 101 or GEOG 103. (4 units)

304. Geology in the Classroom (FWS)

Basic concepts of geology as related to the elementary and middle school classroom. Hands-on analysis of geological materials and processes. Identification and classification of minerals, rocks, and fossils. Study of volcanoes and earthquakes. One hour lecture and three hours laboratory. Materials fee required. Prerequisite: one college-level course in chemistry or physics. (2 units)

305. Demonstration Laboratory in Geology

A demonstration laboratory exploring the basic principles of geology through individual student demonstrations. Three hours laboratory. Prerequisite or corequisite: GEOL 304. (1 unit)

306. Oceans and Atmospheres for the Science Teacher (W-03)

Basic concepts of oceanography and meteorology as these relate to the classroom including seawater chemistry, oceanic and atmospheric circulation, air masses and fronts, El Niño, monsoons, waves, tides, shores and shoreline processes and evolution of the sea floor. Two hours lecture and three hours laboratory/field studies. Material fee required. Field trips may be required. Prerequisite: one laboratory course in physics or chemistry. (3 units)

310. Regional Field Geology (F or S)

Investigation of geologic features and their interpretation based on field observations of selected region or locality. Overnight field trips may be required. May be repeated for credit as topics change. Prerequisite: GEOL 101 or consent of instructor. (2 units)

312. Geology of California (W)

Interpretation of the geological features and evolution of California. Four hours lecture. Overnight field trips may be required. Formerly GEOL 440. Prerequisite: GEOL 101. (4 units)

320. Mineralogy and Crystallography (F-02)

Introduction to crystal symmetry, crystallography, crystal chemistry, mineral classification, mineral genesis, physical and chemical properties of minerals, and laboratory identification of important ore and rock-forming minerals. Three hours lecture and six hours laboratory. Field trips may be required. Prerequisite: GEOL 101. Prerequisite or corequisite: CHEM 205 or 215. (5 units)

321. Optical Mineralogy (W-03)

Theory and application of petrographic microscopy for the analysis and identification of minerals. One hour lecture and three hours laboratory. Formerly GEOL 315. Prerequisite: CHEM 205 or 215. Recommended: GEOL 320. (2 units)

322. Introduction to Geochemistry (W-03)

Distribution, migration, and reactions of chemical elements within the earth through space and time. Recommended as an elective for students of chemistry, environmental studies, and life sciences. Three hours lecture. Formerly GEOL 300. Prerequisite: CHEM 205 or 215. Recommended: GEOL 320. (3 units)

325. Igneous and Metamorphic Petrology (S-03)

Description and genesis of igneous and metamorphic rocks, their mineralogic and chemical composition, internal structure, and mode of occurrence. Three hours lecture and six hours laboratory. Overnight field trips may be required. Prerequisite: GEOL 320. Prerequisite or corequisite: CHEM 216. (5 units)

330. Sedimentary Petrology (F-03)

Study of sedimentary processes, depositional environments, and diagenesis, based on the interpretation and classification of sedimentary rocks. Overnight field trips may be required. Four hours lecture and three hours laboratory. Prerequisite: GEOL 101 or equivalent. (5 units)

340. Stratigraphy (W-04)

Principles of analysis, description, and interpretation of stratiform rock, including stratigraphic nomenclature, correlation, facies relationships, and paleoenvironmental reconstruction. Four hours lecture and three hours laboratory. Overnight field trips may be required. Prerequisite: GEOL 330. (5 units)

350. Paleontology (F-02)

Concepts of paleobiology exemplified by systematic study of important fossil groups. Four hours lecture and three hours laboratory. Overnight field trips may be required. Prerequisite: an introductory geology or biology course. (5 units)

360. Structural Geology (W-04)

Mechanics and characteristics of rock deformation and analytical techniques for the solution of structural relationships. Four hours lecture and three hours laboratory. Overnight field trips may be required. Prerequisites: GEOL 101 and PHYS 121 or 221. (5 units)

370. Tectonics (S-04)

Interpretation of the geological evidence for plate tectonics; the mechanisms that control it; the structures it produces; its control on igneous, metamorphic, sedimentologic, and biological processes; and plate interactions. Four hours lecture. Prerequisites: GEOL 325, 330 and 360. (4 units)

375. Groundwater Hydrology (S-03)

Occurrence, distribution, and movement of groundwater; properties of aquifers; principles of groundwater flow; effects of well extraction; regional groundwater flow; water quality and contamination. Four hours lecture. Prerequisites: GEOG 470, GEOL 101 and MATH 212. Recommended: MATH 251. (4 units)

376. Field Methods in Hydrology (F-03)

Measurement methods and analysis associated with the evaluation of water movement in the field. Sampling methods and use of data loggers and other sampling equipment are emphasized. Two hours lecture and six hours laboratory. Field trips are required. Prerequisite: GEOL 375. (4 units)

390. Field Camp

Geological field work at selected areas in the western United States. Techniques of geologic mapping and structural, petrologic, stratigraphic, and paleontologic interpretation will be used to interpret the geological history and significance of those areas through reports, maps, cross-sections, and diagrams. Prerequisites: GEOL 301, 340, 360 and consent of instructor. (8 units)

395. Directed Studies (FWS)

Individual laboratory, field or library study conducted under the direction of a faculty member. A total of six units in GEOL 395 may be applied toward graduation. A minimum of two units of GEOL 395 are required for the B.S. degree in Geology. Prerequisites: consent of the College of Natural Sciences and approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

430. Engineering Geology (S-04)

A survey of issues and techniques pertinent to geology as it applies to engineering of structures. Soil and rock mechanics; mass wasting processes; water-related issues; land subsidence; seismic hazards. Field trips are required. Three hours lecture and six hours laboratory, some of which will be conducted in the field. Prerequisite: GEOL 360. (5 units)

460. Topics in Applied Geology

A selected topic of applied geology such as engineering geology, groundwater, environmental geology, resource management, well-log analysis, and geological hazards. Four hours lecture. May be repeated for credit as topics change. Prerequisite: GEOL 360 or consent of instructor. (4 units)

510. Scientific Issues in Surface and Groundwater Management

Overview of groundwater concepts and issues, including groundwater origins and behavior; response to wells; water chemistry; water quality and contamination; development and management. Emphasis is given to applications and case studies. This course does not satisfy requirements for the B.A. and B.S. degrees in geology. Four hours lecture. (4 units)

520. Readings in Classical Geology (FWS)

Directed readings of important geologic literature that have shaped our understanding of the earth and its history. May be repeated for credit. Prerequisite: GEOL 250. (2 units)

530. Scanning Electron Microscopy

Theory and techniques of scanning electron microscopy. Lectures on theory of operation of the scanning electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the scanning electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. (Also offered as BIOL 530. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

531. Transmission Electron Microscopy

Theory and techniques of transmission electron microscopy. Lectures on theory of operation of the transmission electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the transmission electron microscope. Laboratory projects will teach technical aspects of specimen preparation and use. Three hours lecture and six hours laboratory. (Also offered as BIOL 531. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

532. Techniques in Ultrastructure Analysis

Specialized techniques in ultrastructural analysis using either the scanning or transmission electron microscope. Topics will vary, but will include specialized techniques in specimen preparation, alternative image detectors, and image analysis. Theory of the analysis and training in the technical aspects will be covered. Three hours lecture and six hours laboratory. (Also offered as BIOL 532. Students may not receive credit for both.) Prerequisites: BIOL 530 or 531 or GEOL 530 or 531 and consent of instructor. (5 units)

540. Advanced Topics in Geology

An advanced geologic topic, such as geophysics, carbonate petrology, seismic stratigraphy, biostratigraphy, advanced igneous and metamorphic petrology, volcanic processes, geochemistry, paleoecology, Quaternary geology, geostatistics, micropaleontology, vertebrate paleontology, paleobotany, marine geology, and rock mechanics. Overnight field trips may be required. May be repeated for credit as topics change. Prerequisites: GEOL 250 and consent of instructor. (4 units)

545. Laboratory for Advanced Topics in Geology

Laboratory work to accompany some topics offered in GEOL 540. Three hours laboratory. May be repeated for credit as topics change. Overnight field trips may be required. Corequisite: GEOL 540. (1 unit)

575. Internship in Geology (FWS)

Work experience off and on campus in geologically related work. Supervised by a member of Geological Sciences faculty. Graded credit/no credit. Prerequisite: consent of instructor. (Credit to be arranged: 2 to 4 units)

590. Senior Seminar (S)

Assessment of student learning through a standardized test and through written and oral presentation of a research project, which may have been initiated as part of another course. This course should be taken in the spring quarter immediately prior to graduation. Prerequisite or corequisite: GEOL 395 or 595. (1 unit)

595. Independent Study (FWS)

Laboratory, field or library research conducted under the direction of a faculty member. A total of six units in GEOL 595 may be applied towards the major in geology. Prerequisites: a minimum overall grade point average of 3.0, consent of the College of Natural Sciences, and approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

GERMAN

Department of Foreign Languages and Literatures

University Hall, Room 314
880-5847

Minor

German

Certificate Program

German/English Translators

The German program, open to all interested students, offers courses that develop language capabilities and an appreciation and comprehension of the literature and culture of Germany, Austria and Switzerland. Information on the special interdisciplinary major in German area studies may be obtained from the Department of Foreign Languages and Literatures.

Courses taught in English are listed under Foreign Languages and Literatures (Page 189) and Humanities (Page 237). Courses listed below are offered both to fulfill general education requirements and to support other major programs.

MINOR IN GERMAN

Requirements (24 units)

Requirements for a minor in German:

1. Proficiency in German equal to GER 150. Intermediate German or equivalent.
Note: Entering students with previous training in German, and those who are native speakers, should contact the Department of Foreign Languages and Literatures for information about advanced placement and credit by examination.

Lower-division requirements (12 units)

1. GER 212. Composition (4)
2. GER 214. Conversation (4)
3. GER 216. Introduction to Literary Texts (4)

Upper-division requirements (12 units)

1. GER 309. Advanced German Composition (4)
2. Eight units chosen from upper-division German courses.

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to Page 61 for additional certificate information.

Certificate for German/English Translators

Certificate requirements (36 units)

1. Proficiency in German equal to GER 150. Intermediate German or equivalent and completion of the following requirements with a grade point average of 2.7 ("B-") or better.
Note: Entering students with previous training in German, and those who are native speakers, should contact the Department of Foreign Languages and Literatures for information about advanced placement and credit by examination.

Lower-division requirements (12 units)

1. GER 212. Composition (4)
2. GER 214. Conversation (4)
3. GER 216. Introduction to Literary Texts (4)

Upper-division requirements (24 units)

1. ENG 306. Expository Writing (4)
2. GER 309. Advanced German Composition (4)
3. GER 311. Survey of German Literature (4)
4. GER 312. Business German (4)
5. GER 313. Technical and Scientific Translation (4)
6. HUM 460. Cultural Studies (4) (when the topic pertains to Germany)

COURSE OFFERINGS IN GERMAN (GER)

Lower Division

Courses at the 101, 102 and 150 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

101. College German I

Fundamentals of pronunciation, structure and German culture designed to develop the ability to use and understand basic spoken German. (4 units)

102. College German II

Further study of the fundamentals of pronunciation, structure and German culture designed to develop the ability to use and understand basic spoken German. Continuation of GER 101. (GE=C.3) (4 units)

150. Intermediate German

Emphasis on oral and written competency at the intermediate level in a cultural context. Prerequisite: two years of high school German or equivalent. (GE=C.3) (4 units)

212. Composition

Comprehensive review of the principles of German grammar, emphasizing their application to composition. Prerequisite: GER 150 or equivalent. (GE=C.3) (4 units)

214. Conversation

Practice of oral German stressing the discussion of current topics, panel discussions, debates, short talks and skits. Prerequisite: GER 150 or equivalent. (GE=C.3) (4 units)

216. Introduction to Literary Texts

Techniques of literary study and analysis. Vocabulary development. Prerequisite: GER 150 or equivalent. (GE=C.3) (4 units)

218. Culture

Introduction to the culture and traditions of the German-speaking countries (principally Germany, Austria and Switzerland) as reflected in the arts and other social institutions. Course taught in German. (4 units)

290. German Literature in English

Introduction to German literature read in English translation. (GE=C.3) (4 units)

Upper Division

Ordinarily, upper-division courses are conducted in German. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

308. Readings in German Literature

Selected literary genre or writer. May be repeated for credit as topics change. Prerequisite: one of the following: GER 212, 214, 216 or consent of instructor. (4 units)

309. Advanced German Composition

Practice in composition and short essay writing with emphasis on the development of good writing style and expressive vocabulary. Practical application in writing. Prerequisite: GER 212 or 216 or consent of instructor. (4 units)

310. Advanced German Conversation

Advanced practice of oral German stressing the discussion of topics based in part on current newspapers and periodicals. Prerequisite: GER 214 or consent of instructor. (4 units)

311. Survey of German Literature

Survey course designed to introduce the student to the major literary movements and representative writers of German speaking cultures. Prerequisites: GER 212, 214, 216 or consent of instructor. (4 units)

312. Business German

Practice in writing German business letters and translation from German to English of materials useful in business, politics and tourism. Prerequisite: GER 212 or 216 or consent of instructor. (4 units)

313. Technical and Scientific Translation

Translation from German to English of technical and scientific material. Prerequisite: GER 212 or 216 or consent of instructor. (4 units)

399. Community Service Project

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)

HEALTH ADMINISTRATION AND PLANNING

Department of Health Science and Human Ecology

Health and Physical Education, Room 235
880-5339, <http://health.csusb.edu/hsci/>

Bachelor of Science in Health Science

Concentration in Health Administration and Planning

Faculty: Daniel Fahey, Joseph Lovett

Health administration is concerned with the planning, organization, financing, delivery, and evaluation of public and personal health services. The health services administration concentration prepares students for careers in health services delivery organizations such as hospitals, clinics, managed care organizations, long-term care facilities, and medical offices. Graduates may also enter careers in governmental health care as local and state departments of health, the U.S. Public Health Service, and international health organizations. Management and staff opportunities for the trained baccalaureate include consulting firms, durable medical equipment, pharmaceutical companies, and healthcare information systems vendors.

The B.S. in Health Science, with a concentration in Health Administration may be combined with a minor in business.

For further program information, course descriptions, and requirements for the B.S. in Health Science, see the Department of Health Science and Human Ecology on [Page 209](#).

Health Administration and Planning Concentration

Required lower division courses:

1. HSCI 120. Health and Society: An Ecological Approach (5)
2. ACCT 211. Introductory Accounting I (4)
3. Five units chosen from:
 - BIOL 100. Topics in Biology (5)
 - BIOL 200. Biology of the Cell (5)
4. BIOL 223. Human Physiology and Anatomy I (5)
5. BIOL 224. Human Physiology and Anatomy II (5)
6. CSCI 121. Computer Technology and People (2)
7. CSCI 123. Using Computer Software (2)
8. Four units chosen from:
 - ECON 200. Principles of Microeconomics (4)
 - ECON 202. Principles of Macroeconomics (4)

Required upper division core courses:

1. HSCI 352. Principles of Environmental Health (4)
2. HSCI 355. Health, Consumer and Environmental Law (4)
3. HSCI 367. Human Disease Mechanisms (4)

4. HSCI 451. Principles of Epidemiology (4)
5. HSCI 470. Health Behavior (4)
6. Four units chosen from:
 - MATH 262. Applied Statistics (4)
 - MATH 305. Statistics: Hypothesis and Testing Estimation (4)

Required upper division concentration courses:

1. HSCI 371. Community Health Services (4)
2. HSCI 415. Medical Care Organizations (4)
3. HSCI 422. Health Planning (4)
4. HSCI 423. Health and Wellness of Older Adults (4)
5. Four units chosen from:
 - HSCI 427. Hospital Administration (4)
 - HSCI 452. Special Topics in Health Science and Human Ecology (4)
 - HSCI 455. Organization and Management Of Long Term Care Facilities (4)
6. HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
7. HSCI 489. Pre-Field Study Practicum (2)
8. HSCI 490. Health Service Administration (4)
9. HSCI 492A. Field Study: Action/Research in Human Ecology and Health (4)
10. HSCI 492B. Field Study: Action/Research in Human Ecology and Health (4)
11. HSCI 598. Research Methodology in Health Science (4)
12. Eleven units of health science electives or other electives approved by an advisor.

HEALTH EDUCATION

Department of Health Science and Human Ecology

Health and Physical Education, Room 235
880-5339, <http://health.csusb.edu/hsci/>

Bachelor of Science in Health Science

Concentrations in

Community Health Education and Promotion
School Health

Faculty: Kim Clark, Marsha Greer, Cindy Paxton

The School Health and the Community Health Education and Promotion concentrations prepare graduates to be eligible to take the Certified Health Education Specialist (CHES) national examination administered by the National Commission for Health Education Credentialing. In addition, the school health concentration contains all content areas required for a single subject teaching credential preparation program in the health sciences. For further program information, course descriptions, and requirements for the B.S. in Health Science, see the Department of Health Science and Human Ecology on [page 209](#).

Community Health Education and Promotion Concentration Core Courses

Required lower division courses:

1. HSCI 120. Health and Society: An Ecological Approach (5)
2. Five units chosen from:
 - BIOL 100. Topics in Biology (5)
 - BIOL 200. Biology of the Cell (5)
3. BIOL 220. Principles of Microbiology (5)
4. BIOL 223. Human Physiology and Anatomy I (5)
5. BIOL 224. Human Physiology and Anatomy II (5)
6. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)

Required upper division core courses:

1. HSCI 352. Principles of Environmental Health (4)
2. HSCI 355. Health, Consumer and Environmental Law (4)
3. HSCI 367. Human Disease Mechanisms (4)
4. HSCI 451. Principles of Epidemiology (4)
5. HSCI 470. Health Behavior (4)
6. Four units chosen from:
 - MATH 262. Applied Statistics (4)
 - MATH 305. Statistics: Hypothesis and Testing Estimation (4)

Required upper division concentration courses:

1. HSCI 301. Principles of Health Education for Health Educators (4)
2. HSCI 302. Instructional Methods in Health Education (4)

3. HSCI 310. Health and Human Sexuality (4)
4. HSCI 342. Nutrition for Your Health (4)
5. HSCI 364. Drug and Alcohol Use and Abuse (4)
6. HSCI 371. Community Health Services (4)
7. HSCI 373. Software Applications in the Health Sciences (4)
8. HSCI 471. Health Promotion: Program Planning and Implementation (4)
9. HSCI 472. Program Evaluation (4)
10. HSCI 489. Pre-Field Study Practicum (2)
11. HSCI 492A. Field Study: Action/Research in Human Ecology and Health (5)
12. HSCI 492B. Field Study: Action/Research in Human Ecology and Health (5)
13. HSCI 598. Research Methodology in Health Health Science (4)

Additional requirement for community health concentration.

1. HSCI 490. Health Service Administration (4)
2. Eight units of health science electives or other electives approved by an advisor.

Additional requirement for school health concentration.

1. Four units chosen from:
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
2. HSCI 334. School Health Administration and Planning (4)
3. HSCI 435. Health and Human Development (4)
4. Four units of health science electives or other electives approved by an advisor.

HEALTH SCIENCE

Department of Health Science and Human Ecology

Health and Physical Education, Room 235
880-5339

Bachelor of Science

Health Science

with concentrations in:

Community Health Education and Promotion

Environmental Health Science

Health Administration and Planning

School Health

Nutrition and Food Sciences

(Nutrition and food science requirements can be found on Page 300.)

Teaching Credential Preparation Program

Health Science

Credential

School Nurse

(Credential requirements can be found on Page 437.)

Minor

Health Science

Nutrition and Food Sciences

Master of Arts

Health Education Concentration, M.A. in Education

(Degree requirements can be found on Page 415.)

Master of Science

Health Services Administration

(Degree requirements can be found on Page 467.)

Certificate Programs

Community Mental Health

Gerontology

(Gerontology certificate requirements can be found on Page 333.)

Certification

Audiometrist Certification

FACULTY: Dorothy Chen-Maynard, Kim Clark, Richard Eberst, Daniel Fahey, Marsha Greer, Joe Hughes, Joseph Lovett, Lal Mian, Cindy Paxton (Chair)

The Department of Health Science and Human Ecology provides courses of instruction for personal growth, community service, intellectual stimulation and professional career opportunities in the public health and environmental fields. The department emphasizes an ecological approach to health and attempts to provide students with the tools necessary to understand factors contributing to the promotion of general health and well-being and the prevention of illness.

The Department of Health Science and Human Ecology also offers a Bachelor of Science in Health Science and a Bachelor of Science in Nutrition and Food Sciences. Students seeking a major in nutrition and food sciences should refer to Page 300 of this catalog for the description of this degree. In

addition the department offers a Master of Science in Health Services Administration, see Page 467. Within the M.A. in Education, students have the opportunity to take the option in Health Education. See Page 415 for this option. The department also offers certificates in several specialized areas.

A Bachelor of Science in Health Science with a given concentration is appropriate for students preparing to become health professionals, those who want to be health educators or health administrators, or those desiring to work in environmental protection agencies, private businesses, industrial hygiene, and safety. The program also is designed to provide a career ladder opportunity for persons currently engaged in public health and environmental occupations or preparing for graduate work in medicine, public health, social or natural sciences.

The department offers a blend of traditional and modern approaches to education and career development in the health science field. It encourages multidisciplinary orientation, community interaction and a social outlook, and provides appropriate instruction in the health related areas of science. In their senior year, students intern in community agencies, such as health departments, hospitals, industrial plants, environmental improvement agencies and consumer affairs offices, thus combining theory and practice.

The Environmental Health Science Concentration is the appropriate choice for students who want to become health inspectors (i.e., Registered Environmental Health Specialist), industrial hygienists, or hazardous waste control experts. For those who plan on becoming Registered Environmental Health Specialists, this concentration is approved by the Environmental Specialist Registration Committee of the California State Department of Health Services. Students who are certified by the environmental health coordinator will have met the academic and experience requirements for admittance to the State Environmental Health Specialist Registration Examination.

The School Health and the Community Health Education and Promotion concentrations prepare graduates to be eligible to take the Certified Health Education Specialist (CHES) national examination administered by the National Commission for Health Education Credentialing. In addition, the school health concentration contains all content areas required for a single subject teaching credential preparation program in the health sciences.

Pre-professional students of medicine, dentistry, veterinary medicine or other science-related fields seeking a major in health science should refer to Page 69 and consult with a department advisor.

Students interested in fields such as health or environmental law, clinical chemistry, business, health physics, or any other academic discipline should complete the minimum requirements of the major and select appropriate electives in consultation with a department advisor.

B.S. IN HEALTH SCIENCE

Requirements (111-122 units)

Total units required for graduation: 186

Requirements for the B.S. in Health Science:

Note: Certain required courses also apply in the university's general education program (refer to [Page 73](#)).

Lower-division requirement (5 units)

1. HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements (24 units)

1. HSCI 352. Principles of Environmental Health (4)
2. HSCI 355. Health, Consumer and Environmental Law (4)
3. HSCI 367. Human Disease Mechanisms (4)
4. HSCI 451. Principles of Epidemiology (4)
5. HSCI 470. Health Behavior (4)
6. Four units chosen from:
 - MATH 262. Applied Statistics (4)
 - MATH 305. Statistics: Hypothesis and Testing Estimation (4)

Concentration (79-93 units)

One of the following four concentrations is required for the major:

Community Health Education and Promotion Concentration (89 units)

1. Five units chosen from:
 - BIOL 100. Topics in Biology (5)
 - BIOL 200. Biology of the Cell (5)
 - BIOL 220. Principles of Microbiology (5)
 - BIOL 223. Human Physiology and Anatomy I (5)
 - BIOL 224. Human Physiology and Anatomy II (5)
 - CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
6. HSCI 301. Principles of Health Education for Health Educators (4)
7. HSCI 302. Instructional Methods in Health Education (4)
8. HSCI 310. Health and Human Sexuality (4)
9. HSCI 342. Nutrition for Your Health (4)
10. HSCI 364. Drug and Alcohol Use and Abuse (4)
11. HSCI 371. Community Health Services (4)
12. HSCI 373. Software Applications in the Health Sciences (4)
13. HSCI 471. Health Promotion: Program Planning and Implementation (4)
14. HSCI 472. Program Evaluation (4)
15. HSCI 489. Pre-Field Study Practicum (2)
16. HSCI 490. Health Service Administration (4)
17. HSCI 492A. Field Study: Action/Research in Human Ecology and Health (5)
18. HSCI 492B. Field Study: Action/Research in Human Ecology and Health (5)
19. HSCI 598. Research Methodology in Health Science (4)

20. Eight units of health science electives or other electives approved by an advisor.

Environmental Health Science Concentration (91 units)

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. Five units chosen from:
 - BIOL 220. Principles of Microbiology (5)
 - BIOL 320. Microorganisms (6)
5. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
6. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
7. Organic chemistry, a minimum of five units chosen from group A, B, or C:

Group A

- CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)

Group B

- CHEM 221A. Organic Chemistry I: Lecture (3)
- CHEM 221B. Organic Chemistry I: Laboratory (1)
- CHEM 222A. Organic Chemistry II: Lecture (3)
- CHEM 222B. Organic Chemistry II: Laboratory (1)
- CHEM 223A. Organic Chemistry III: Lecture (3)
- CHEM 223B. Organic Chemistry III: Laboratory (1)

Group C

- CHEM 321. Principles of Organic Chemistry I (5)
- CHEM 322. Principles of Organic Chemistry II (5)
- CHEM 323. Principles of Organic Chemistry III (5)
8. HSCI 380. Principles of Toxicology (4)
9. HSCI 401. Advanced Environmental Health (5)
10. HSCI 402. Principles of Occupational Health (5)
11. HSCI 403. Vector-borne Disease Control (5)
12. HSCI 490. Health Service Administration (4)
13. HSCI 496. Internship in Environmental Health (6)
14. Four units chosen from:
 - MATH 192. Methods of Calculus (4)
 - MATH 211. Basic Concepts of Calculus (4)
15. A minimum of thirteen units, choose Group A or B below:

Group A:

- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

Group B:

- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)
16. Ten units of health science electives chosen from:
 - HSCI 322. Air Pollution (2)
 - HSCI 324. Radiological Health and Safety (2)
 - HSCI 354. Solid Waste Management (2)
 - HSCI 356. Housing and Institutions (2)
 - HSCI 357. Hazardous Material Control (4)
 - HSCI 358. Water Quality and Pollution Control (4)
 - HSCI 381. Occupational Safety (4)
 - HSCI 430. Food-borne Illnesses and Their Prevention (4)
 - HSCI 477. Environmental Health Engineering (4)

- HSCI 478. Environmental Health Management (4)
 HSCI 499. Directed Reading (1-4)
 HSCI 595. Independent Study (1-6)

Health Administration and Planning Concentration (82 units)

- ACCT 211. Introductory Accounting I (4)
- Five units chosen from:
 - BIOL 100. Topics in Biology (5)
 - BIOL 200. Biology of the Cell (5)
- BIOL 223. Human Physiology and Anatomy I (5)
- BIOL 224. Human Physiology and Anatomy II (5)
- CSCI 121. Computer Technology and People (2)
- CSCI 123. Using Computer Software (2)
- Four units chosen from:
 - ECON 200. Principles of Microeconomics (4)
 - ECON 202. Principles of Macroeconomics (4)
- HSCI 371. Community Health Services (4)
- HSCI 415. Medical Care Organizations (4)
- HSCI 422. Health Planning (4)
- HSCI 423. Health and Wellness of Older Adults (4)
- Four units chosen from:
 - HSCI 427. Hospital Administration (4)
 - HSCI 452. Special Topics in Health Science and Human Ecology (4)
 - HSCI 455. Organization and Management of Long-Term Care Facilities (4)
- HSCI 460. Strategic Planning and Marketing in the Health Care System (4)
- HSCI 489. Pre-Field Study Practicum (2)
- HSCI 490. Health Service Administration (4)
- HSCI 492A. Field Study: Action/Research in Human Ecology and Health (5)
- HSCI 492B. Field Study: Action/Research in Human Ecology and Health (5)
- HSCI 598. Research Methodology in Health Science (4)
- Eleven units of health science electives or other electives approved by an advisor.

School Health Concentration (93 units)

- Five units chosen from:
 - BIOL 100. Topics in Biology (5)
 - BIOL 200. Biology of the Cell (5)
- BIOL 220. Principles of Microbiology (5)
- BIOL 223. Human Physiology and Anatomy I (5)
- BIOL 224. Human Physiology and Anatomy II (5)
- CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
- HSCI 301. Principles of Health Education for Health Educators (4)
- HSCI 302. Instructional Methods in Health Education (4)
- HSCI 310. Health and Human Sexuality (4)
- Four units chosen from:
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)

- HSCI 334. School Health Administration and Planning (4)
- HSCI 342. Nutrition for Your Health (4)
- HSCI 364. Drug and Alcohol Use and Abuse (4)
- HSCI 371. Community Health Services (4)
- HSCI 373. Software Applications in the Health Sciences (4)
- HSCI 435. Health and Human Development (4)
- HSCI 471. Health Promotion: Program Planning and Implementation (4)
- HSCI 472. Program Evaluation (4)
- HSCI 489. Pre-Field Study Practicum (2)
- HSCI 492A. Field Study: Action/Research in Human Ecology and Health (5)
- HSCI 492B. Field Study: Action/Research in Human Ecology and Health (5)
- HSCI 598. Research Methods (4)
- Four units of health science electives or other electives approved by an advisor.

TEACHING CREDENTIAL PREPARATION PROGRAM

The School Health Concentration is the appropriate choice for all students who want to teach health science in schools. It meets the requirements for secondary teaching level major in health science. Students wishing to be recommended for a single subject teaching credential in Health Science must complete the requirements for this concentration as well as certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program, or specific requirements for the single subject waiver program see [Page 161](#) or contact the Credentials Office (C.A.S.E.).

For teachers needing to clear their credential, the following courses meet the Single Subject Waiver Requirement for Health:

For elementary/multiple subjects credential candidates:
 HSCI 332. Health Education in the Elementary School

For secondary/single subject credential candidates:
 HSCI 333. Health Education in the Secondary School
 HSCI 440. Family Health Issues for Educators

For teachers wishing to add Health Science as a Supplemental Authorization to their existing credential, the following coursework is required:

HSCI 310. Health and Human Sexuality
 HSCI 333. Health Education in the Secondary School
 HSCI 342. Nutrition for Your Health
 HSCI 364. Drug and Alcohol Use and Abuse

MINOR IN HEALTH SCIENCE

Requirements (31 units)

Requirements for a minor in Health Science:

Lower-division requirement (5 units)

- HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements (26 units)

1. HSCI 352. Environmental Health I (4)
2. HSCI 451. Principles of Epidemiology (4)
3. Eighteen units of upper-division health science courses chosen in consultation with an advisor.

DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in health science after meeting the following requirements:

1. At least a 3.5 grade point average in all courses required for the major taken at California State University, San Bernardino;
2. At least a 3.0 ("B") grade point average overall;
3. An "A-" or better in HSCI 595. Independent Study (at least four units).

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Community Mental Health

Certificate requirements (30 units)

1. HSCI 371. Community Health Services (4)
2. HSCI 421. Community Mental Health (4)
3. PSYC 387. Community Psychology (4)
4. PSYC 390. Abnormal Psychology (4)
5. Fourteen units of electives chosen from the following in consultation with an advisor:
 - HSCI 364. Drug and Alcohol Use and Abuse (4)
 - HSCI 399. Community Service Project (1-2)
 - HSCI 423. Health and Wellness of Older Adults (4)
 - HSCI 451. Principles of Epidemiology (4)
 - HSCI 470. Health Behavior (4)
 - HSCI 492A. Field Study: Action/Research in Human Ecology and Health (5)
 - PSYC 201. Developmental Psychology (4)
 - PSYC 315. Communication Processes (4)
 - PSYC 329. Psychology of Adulthood and Aging (4)
 - PSYC 333. Drugs and Behavior (4)
 - PSYC 351. Behavior Modification: Principles and Applications (4)
 - PSYC 384. Personality and Social Development (4)
 - PSYC 385. Personality (4)
 - PSYC 386. Introduction to Psychotherapy (4)
 - PSYC 391. Psychopathology of Childhood (4)
 - SOC 355. Medical Sociology (4)
 - SOC 356. Sociology of Mental Illness (4)

Certificate in Gerontology

The Department of Health Science and Human Ecology participates in the interdisciplinary certificate in Gerontology. Details concerning this certificate are found under Sociology Certificate Programs, [Page 333](#).

CERTIFICATION

Audiometrist Certification

Certification requirements (4 units)

The following course leads to a certificate of registration as a school audiometrist issued by the California State Department of Health Services:

- HSCI 374. Basic Audiometry and Hearing Problems (4)

COURSE OFFERINGS IN HEALTH SCIENCE (HSCI)

Lower Division

120. Health and Society: An Ecological Approach

Nature and function of health in society through study of the fundamental concepts of living systems and their implication in the processes of health and illness in the human organism. Major health problems are analyzed to contribute to the student's understanding of his or her role as an individual and as a member of the community. Four hours lecture and three hours laboratory. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B.2) (5 units)

225. The Dietetic Profession

An overview of the professional development of dietetic education and scope of dietetic practice. (1 unit)

245. Introduction to Food Science

Application of scientific principles to the study of food; role of carbohydrates, lipids and proteins in food; principles of food safety. Four hours lecture and three hours laboratory. Prerequisites: HSCI 225 and CHEM 205. (5 units)

295. Special Projects in Health Science

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)

Upper Division

301. Principles of Health Education for Health Educators

Foundations of the health education process. Role of a health educator in school, community, work and hospital settings, as well as consultant in health promotion activities. Course does not fulfill the state health education requirement. Prerequisite: HSCI 120 or consent of instructor. (4 units)

302. Instructional Methods in Health Education

Theory, research and practice of a variety of individual, small group and large group instructional strategies utilized in health education and health behavior change programs in school, community and/or clinical settings. (4 units)

310. Health and Human Sexuality

Relationship between health and human sexuality with a theme of prevention of disease, disorder and dysfunction through education. Prerequisite: HSCI 120 or consent of instructor. (4 units)

322. Air Pollution

Principles of air quality management, including health implications of polluted air, applicable fundamentals of meteorology, air quality regulations and current concepts in air pollution control technology. Prerequisites: college-level courses in biology and chemistry. (2 units)

324. Radiological Health and Safety

Ionizing radiation and its effects on health. Methods of identification, evaluation and control are emphasized. Prerequisites: college-level courses in biology, chemistry and physics. (2 units)

332. Health Education in the Elementary School

Health education concepts and content applied specifically to grades K-6. Stresses communication and instruction in health education for the teacher/school nurse, emphasizing the uniqueness and personal nature of health; techniques of health education; recognition of health education and other aspects of normal health and diseases/disorders common in children. Conforms with the State Framework for Education in the Health Sciences. Prerequisite: HSCI 120 or consent of instructor. (4 units)

333. Health Education in the Secondary School

Health education concepts and content applied to grades 7-12. Stresses the personal nature of health instruction for the teacher/school nurse; the importance of individual responsibility in health related issues; characteristics of junior high and high school students and their relationship with health education techniques; recognition of health educational and other aspects of normal health and diseases/disorders common in adolescents and teenagers. Conforms with the State Framework for Education in the Health Sciences. Prerequisite: HSCI 120 or consent of instructor. (4 units)

334. School Health Administration and Planning

Philosophical framework and history of the school health education program, including organization, administration and legal aspects. Emphasis on the roles of school health administrators, teachers and nurses within the contexts of school health services, health instruction and healthful school living. Prerequisite: HSCI 332 or 333 or consent of instructor. (4 units)

342. Nutrition for Your Health

Application of basic nutrition principles to the prevention of disease through the life cycle; food choices that represent these principles; current trends, fads and fallacies in nutrition. May not be counted towards fulfilling requirements in the nursing major. (4 units)

344. International Perspectives on Nutrition

Study and comparison of the incidence and causes of malnutrition in developing and industrialized nations. Discussion of political, economic, ecological, and cultural factors influencing malnutrition. (4 units)

345. Advanced Food Science

Study of food processing technology including thermal processing, dehydration, heat removal, and osmotic preservation. Food product development and sensory evaluation of food. Four hours lecture and three hours laboratory. Prerequisites: CHEM 206 or equivalent and HSCI 245. (5 units)

350. Principles of Nutrition

Physiologic and chemical roles of carbohydrates, lipids, proteins, vitamins, minerals and water in the human body. Factors affecting absorption, utilization and the need for nutrients. Formerly HSCI 362. Prerequisites: CHEM 205, 206 and 207 or consent of instructor. (4 units)

351. Nutritional Biochemistry and Metabolism

Study of metabolic roles of macro- and micronutrients and in-depth analysis of nutritional biochemistry and metabolism. Integration of metabolism with regard to specific organ systems and nutrient interactions. Discussion of metabolic diseases and their effects on body functions. Prerequisite: HSCI 350 or consent of instructor. (4 units)

352. Principles of Environmental Health

Introduction to the effects of the physical, chemical, and biological environments and their impacts on human health and well-being. Emphasis is placed on the principles of assessment, evaluation and control of environmental risks related to public health. Discussion topics include air, water and solid waste pollution plus food protection, radiation, hazardous wastes and environmental impacts. Prerequisites: college-level course in biology and HSCI 120. (4 units)

354. Solid Waste Management

Principles of solid waste management from generation and collection to disposal. Includes evaluation of methods of waste disposal, and discussion of relevant legislation. The contribution of solid waste to air, water and soil pollution. Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor. (2 units)

355. Health, Consumer and Environmental Law

Health laws and regulations, basis for their enactment and impact on facilities and programs, e.g. hospitals, health planning. Impact of environmental law on public health and mechanisms involved in protecting health consumers. Legal basis of the health care system and related aspects. (4 units)

356. Housing and Institutions

Basic health principles and environmental quality considerations associated with housing and institutions (for example, health care, educational, penal). Relationship of housing quality to physical, socio-economic and ethnic factors and their influence on health. (2 units)

357. Hazardous Material Control

Major methods for the control of hazardous wastes from generation through disposal, including disease, environmental and legal aspects of hazardous wastes as well as discussion of various disposal techniques. Prerequisites: college-level biology and chemistry courses. (4 units)

358. Water Quality and Pollution Control

Major sources and control of water pollution. Includes discussion of water legislation, wastewater treatment, quality control criteria for safe drinking water and their impact on aquatic life. Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor. (4 units)

359. International Perspectives on Health

Study and comparison of patterns in personal and community health in developing and industrialized nations. Introduction to the impact of behavioral, ecological, economic and governmental factors on health status and health care organization and delivery. Discussion of national, regional, and international health problems and programs. Prerequisites: HSCI 120 and one of the following: ANTH 102, PSYC 100 or SOC 100. (4 units)

361. Principles of Accident Prevention

Ecological and medical aspects of accident prevention in residential, work, educational, medical and recreational environments. Legal aspects and governmental organizations involved in accident prevention. (2 units)

364. Drug and Alcohol Use and Abuse

Analysis of factors influencing human use or abuse of drugs, alcohol and other substances and their effects on the health and well-being of the individual, family and society. (4 units)

365. Nutrition Throughout the Life Cycle

Nutritional needs through the life cycle. Factors that affect cultural, ethnic and religious food preferences in individuals and groups. Prerequisite: HSCI 362. (4 units)

367. Human Disease Mechanisms

Ecological and medical aspects of human disease and the body's response to the disease process and the effects on normal function. Prerequisites: HSCI 120; and either BIOL 223 and 224 or BIOL 200, 201 and 202. (4 units)

371. Community Health Services

Consideration and comparison of traditional and current programs in official and voluntary health agencies. (4 units)

373. Software Applications in the Health Sciences

Overview and application of a variety of software applications currently utilized in health science-related programs, including but not limited to assessment, planning, program implementation and management software; statistical packages; regional and national databases; and integrated applications. Prerequisites: prior or concurrent enrollment in HSCI 371, MATH 305, or consent of instructor. (4 units)

374. Basic Audiometry and Hearing Problems

Examination of the anatomy and physiology of the auditory mechanism. Nature of the acoustic stimulus, hearing disorders, problems of the hard of hearing and pure-tone audiometry. This course leads to the certificate of registration as school audiometrist, granted by the California Department of Health Services upon successful completion. (4 units)

378. Peer Education Training in Health Science

Content and methods related to peer education in Health Science. Small group process, techniques in health counseling, accessing resources and referrals and the development of presentation skills will be emphasized. (4 units)

379. Peer Education Supervision in Health Science

Ongoing supervision for those students previously trained as peer educators in health science who are currently providing services to the CSUSB Peer Education Program. May be repeated once for credit. Graded credit/no credit. Prerequisite: HSCI 378. (2 units)

380. Toxicology

Principles of chemical toxicity and relationship to public health, including principles, intoxication, disease, dose-response measurement, mechanisms of action and principles of antidotal therapy. Specific toxicologic studies as related to various food, drug, consumer, industrial and environmental problems. Studies of various classes of chemical intoxicants. Prerequisites: college-level biology and chemistry courses. (4 units)

381. Occupational Safety

Principles of industrial safety, including general principles; accident control; industrial, mechanical, electrical, chemical and flammability hazards; fire and explosion protection; accident investigation; industrial safety inspections; record keeping; safety training and emergency planning; methods of industrial safety management as a unifying theme. (4 units)

382. Nutrition for Health, Fitness and Sports

Addresses the nutrition needs of active people and athletes. Topics include macro- and micro-nutrient requirements for fitness and sport. Popular nutrition supplements and ergogenic aids used by active people and athletes will also be discussed. (4 units)

383. Advanced Nutrition

Integration of nutritional biochemistry and topics relevant to nutrition and dietetic practice. Evaluation and interpretation of current trends and topics related to nutritional science. Formerly HSCI 447. Prerequisite: HSCI 351 or consent of instructor. (2 units)

384. Research Methodology in Nutrition

Analysis of experimental designs and methods employed in nutritional science research. Integration and understanding of interactions among nutrients and metabolic functions by performing experiments in the laboratory. Laboratory experience in nutritional assessment using anthropometric, dietary, biochemical and clinical tests and criteria. One hour lecture and three hours laboratory. Prerequisite: HSCI 383 or consent of instructor. (2 units)

385. Cultural Aspects of Food: Traditions and Trends

Understanding of relationships among cultural, religious and geographical locations to food consumed by people around the world. Comparison of differences and similarities in types of food and cuisines. Exploration of factors that affect types of food consumed and their effects on nutrition and health status. (4 units)

399. Community Service Project

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses.

es may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)

401. Advanced Environmental Health

An integrated view of the factors that contribute to illness, injury, or death, and that affect the health status of individuals and populations. Topics include epidemiology, demographics and statistics on health status, determinants of health and illness, behavioral aspects of health and preventive care. Environmental health laws and regulations as well as compliance with current regulations are emphasized. The laboratory emphasizes methods of measuring and evaluating environmental health risks as well as field experience. Topics include: environments within buildings, food sanitation, water sanitation and control, solid and hazardous waste and control, air pollution and control, community noise and control. Four hours lecture and three hours laboratory. Formerly HSCI 353. Prerequisites: HSCI 352, college-level course work in biology, chemistry and physics is recommended or consent of instructor. (5 units)

402. Principles of Occupational Health

Principles of occupational health risks including anticipation, recognition, evaluation, and control. Influence of workplace risks on human health and their relationship to occupational medicine. Study of occupational health laws and regulations as well as methods of compliance with current regulations. Laboratory and field experience in topics that include: toxic and hazardous chemicals, airborne chemicals, materials of biological origin, noise, and electromagnetic radiation. Four hours lecture and three hours of laboratory per week. Formerly HSCI 353. Prerequisites: HSCI 352 or consent of instructor. College-level course work in chemistry and physics is recommended. (5 units)

403. Vector-borne Disease Control

Identification and control of insect and other vectors of diseases. Discussion of major topics in vector ecology including natural and chemical control methods and their impact on health and environmental quality. Four hours lecture and three hours laboratory. Formerly HSCI 458. Prerequisites: HSCI 352, college-level coursework in biology and chemistry, or consent of instructor. (5 units)

404. Women's Health Issues

Analysis of biological, psychological and sociocultural issues related to the health and health care of women. Emphasis on responsibilities of women in maintaining and promoting their health. (4 units)

415. Medical Care Organizations

Analysis of the organization of health and medical care services, resources, facilities, financial aspects and other related topics. Prerequisite: HSCI 371 or consent of instructor. (4 units)

421. Community Mental Health

Mental health care delivery system with emphasis on a community approach to prevailing problems and issues. Methods of evaluating community and school mental health education programs; survey of available resources. (4 units)

422. Health Planning

Health planning systems and procedures. Prerequisite: HSCI 371 or consent of instructor. (4 units)

423. Health and Wellness of Older Adults

The physiological, sociological and psychological aspects of the aging process. Disease prevention and health promotion concepts related to the quality of life of older adults. (4 units)

424. Health Facilities Planning

Activities in health care facilities planning, for example, architectural, engineering, contractual, environmental and other regulatory aspects. Facility planning processes, environmental forces, administrative coordination and historical development. (4 units)

425. Hearing Conservation and Noise Measurement

Principles of audiology and noise measurements and their application to environmental and industrial hearing conservation programs. (2 units)

427. Hospital Administration

Organization and administration of hospital facilities including planning and evaluation of services. Role of the hospital as part of the community. Prerequisites: HSCI 371 and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

430. Food-Borne Illnesses and Their Prevention

Food-borne illnesses and food poisoning of microbial and chemical origins, causation and environmental control measures; proper environmental control measures; and proper environmental health conditions involved in storage, transportation and service of foods in order to minimize health dangers. Prerequisite: HSCI 352. (4 units)

435. Health and Human Development

Issues regarding the health and well-being of children and adolescents will be emphasized including physical, cognitive, emotional, and social development from an applied perspective. (4 units)

440. Family Health Issues for Educators

Factors which influence the overall health status of today's adolescents, their families and communities, including fitness, nutrition, substance abuse, suicide, stress and sexuality issues. The role of the secondary classroom teacher within the school health services and referral system is emphasized. Course conforms with the State Framework for Education in the Health Sciences for middle school and high school teacher candidates. May not be taken for elective credit in school health or community health concentrations. (4 units)

443. Medical Nutrition Therapy I

Nutritional screening and skills needed for dietary intervention in disease processes; special emphasis on interrelationships between pathophysiology of disease processes and dietary modifications to improve quality of life. Formerly HSCI 368. Prerequisite: HSCI 365, concurrent enrollment in HSCI 383, 384, or consent of instructor. (4 units)

444. Medical Nutrition Therapy II

Continuation of Medical Nutrition Therapy I, assessment and skills needed for dietary intervention in disease processes; special emphasis on interrelationships between pathophysiology of disease processes and dietary modifications to improve quality of life. Formerly HSCI 369. Prerequisite: HSCI 443 or consent of instructor. (4 units)

445. Community Nutrition

The role of public and private agencies in nutrition programs. Application of nutrition principles to the improvement of the health status of individuals and groups in the community. Emphasis on program planning, educational methods and evaluation. Prerequisites: HSCI 302 and 444. (4 units)

451. Principles of Epidemiology

Distribution and dynamics of human health problems; principles and procedures used to determine circumstances under which disease occurs or health prevails. The broadened scope of epidemiology is examined through case studies and community health approach. Prerequisite: HSCI 120 or consent of instructor. (4 units)

452. Special Topics in Health Science and Human Ecology

Examination of selected topics of current interest in health science. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

455. Organization and Management of Long-Term Care Facilities

Examination of the professional administrative role and managerial concepts in long-term facilities, including nursing homes. Prerequisites: HSCI 371 and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

460. Strategic Planning and Marketing in the Health Care System

Strategy-oriented management planning process, basic approaches and methodologies employed in strategic planning and health care marketing; economic and political forces which give form and shape to the health care marketplace. (4 units)

465. Foodservice Production and Procurement

Principles and procedures of menu planning, quantity food production, production scheduling, recipe adaptation, equipment operation, sanitation and formula costing. Principles of procurement including purchasing, selection, storage of equipment and quantity foods. Three hours lecture and six hours laboratory. Prerequisites: HSCI 345 and 350, or consent of instructor. (5 units)

467. Foodservice Systems Management

Distribution and management of resources in food service management: personnel, facilities, materials, time and money. Prerequisites: HSCI 465 and either MGMT 302 or PSYC 302, or consent of instructor. (4 units)

470. Health Behavior

Theoretical foundation for the development, analysis and interpretation of individual and community influences on decisions which impact health status. Strategies for health behavior modification. Prerequisites: prior or concurrent enrollment in HSCI 120 and 301 or consent of instructor. (4 units)

471. Health Promotion: Program Planning and Implementation

Introduction to the methods and processes of health promotion and change programs for both individuals and groups; emphasis in program design and implementation. Prerequisite: HSCI 470. (4 units)

472. Program Evaluation

Theory of and practice in a variety of program evaluation strategies in the school, community agency and/or health care settings. Prerequisites: prior or concurrent enrollment in HSCI 471 and 598 or permission of instructor. (4 units)

474. Advanced Audiometry

Hearing tests, their objectives and uses for diagnostic and rehabilitative purposes. Techniques for administering auditory tests and the interpretation of their results emphasizing pure-tone audiometry. Prerequisite: HSCI 374 or 425 or equivalent. (4 units)

477. Environmental Health Engineering

Methods used in designing systems which mitigate environmental contamination of air, soil, and water. Topics include stream re-aeration, kinetics of biological degradation, soil mechanics, adsorption and other principles related to environmental media protection and renovation. Prerequisites: HSCI 120 and 352. (4 units)

478. Environmental Health Management

Methods of management for promoting optimum environmental health, emphasizing land use planning, environmental impact reporting, facility planning and risk assessment. Prerequisite: HSCI 120. (4 units)

489. Pre-Field Study Practicum

Preparatory work for field assignments through classroom discussion, agency contacts and experience. Prerequisites: prior or concurrent enrollment in HSCI 471 (for health education majors); HSCI 415, 427 and 490 (for health services administration majors); or consent of instructor. (2 units)

490. Health Service Administration

Introduction to management theory and practice as they apply to the administration of health service programs. Emphasis is placed on the planning, analysis, organizing, staffing, directing and evaluation functions necessary to administration of health service organizations. Budgeting functions and processes are discussed as they relate to health services administration. Prerequisite: HSCI 120. (4 units)

492. Field Study: Action/Research in Human Ecology and Health

Individual and team field studies and research in agencies with activities relevant to career goals and interests. Prerequisite: HSCI 489 or 491 or consent of instructor.

A. (5 units)

B. (5 units)

494. Internship in Health Science

Internship option for students completing a second area of concentration in health sciences or student teaching experience for school nurses. Prerequisite: consent of instructor. (Credit to be arranged: 1 to 5 units)

496. Internship in Environmental Health

Individual studies in environmental health. Students will be placed with public health agencies to gain applied and/or research experience. Prerequisites: health science majors with a concentration in environmental health science and senior class standing or consent of instructor. (6 units)

499. Directed Reading

Library/literature research of special topic under the direction of a faculty member. A maximum of eight units may be applied toward graduation. Units from Directed Reading may not be used by student for departmental honors. Prerequisites: a minimum overall grade point average of 3.0 and completion of basic course work in topic area. A written plan of study must be submitted to and approved by the supervising faculty prior to registration in the course. (Credit to be arranged: 1 to 4 units)

525. Health Data Analysis and Demography

Introduction to analysis of health data using statistical procedures, development of skills for determining analytical techniques and procedures for interpretation and presentation of resultant data; examination of sources and evaluation of demographic data and relationships to such topics as fertility, morbidity, mortality, population projection, life tables and migration. Prerequisites: HSCI 451 and MATH 305 or 350 or consent of instructor. (4 units)

550. The Health Aspects of Death and Dying

Investigation of how the realities of death and loss influence the quality of a person's life and their personal health status. The focus is on assisting students and professionals in developing the skills necessary to assist individuals deal with death, loss, grief, bereavement, and mourning in the healthiest ways possible. Formerly a topic under HSCI 542. (4 units)

560. Individual and Small Group Interventions in Health Promotion

Theories and strategies of individual and group intervention in behaviors related to premature morbidity and mortality. Includes assessment, intervention, planning and follow-up, referral skills for the health education/health promotion specialist. Prerequisite: HSCI 470 or consent of instructor. (4 units)

590. Current Topics in Health Administration and Planning

Presentation and analysis of a particular issue or topic in health services administration or planning. May be repeated for credit as topics change. (2 units)

595. Independent Study

Research in special topics or projects including literature review for laboratory and/or applied research under the direction of a faculty member. A written report of the end product must be submitted and approved by a committee of faculty. Review of literature alone on a specific topic may not be used for independent study. A total of eight units may apply toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

598. Research Methodology in Health Science

Research methods and application to contemporary health and environmental problems. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. Prerequisite: MATH 305 or 350 or consent of instructor. (4 units)

HISTORY

Department of History

Social and Behavioral Sciences Building, Room 327F
880-5524

Bachelor of Arts

History - Track A
History - Track B

Teaching Credential Program

Single Subject

Minor

History

Master of Arts

Secondary Education - History Option
(Degree requirements can be found on [Page 422.](#))

FACULTY: Elliot Barkan, Robert Blackey, Brett Flehinger, Joyce Hanson, Lanny Fields, Ward McAfee, Michael Persell, Cheryl Riggs (Chair), Pedro Santoni, Kent Schofield (Emeritus)

History has been called the "extension of memory" which enables one to utilize past experiences. The study of history nurtures and refines a broad spectrum of skills which make not only for good historians and teachers, but for good workers in many fields where men and women are sought who can read critically, analyze and write. In fact, while teaching and research have traditionally been the avenues history majors have followed, a multitude of career opportunities has always existed for those who like history but do not wish to become teachers. The skills history majors learn and refine in thinking, research, problem defining and solving, speaking and writing—in conjunction with skills acquired from other selected courses—ideally suit them for positions in the business world and with governmental agencies.

The History Department has developed a major that can be completed by taking one of two tracks: Track A (designed for students wishing to be recommended for a single subject credential in social science) and Track B (designed for students interested in any of the other fields open to History majors). Both tracks include courses that provide surveys of United States and world history, and an introduction to the nature of historical study. To meet the remainder of the requirements for Track A, students are required to take a number of other courses in history and from among the other social science fields. To meet the remainder of the requirements for Track B, students are required to choose from a wide spectrum of courses in an area of concentration.

Currently, the department consists of faculty specializing in the areas of American, European, African, Asian and Latin American history.

Lower-division courses may not be taken by students who have received credit for work in the subject in advance of the lower-division course, except where permission is granted by the department.

B.A. IN HISTORY - TRACK A (SOCIAL SCIENCE CREDENTIAL OPTION)

Requirements (125 units)

Total units required for graduation: 180

All students who are enrolled in the teacher credential program should see a faculty advisor for assistance in choosing courses.

Requirements for the B.A. in History - Track A (Social Science Credential Option):

Core Requirements (69 units, 25 of which also count toward meeting General Education requirements):

1. ANTH 102. Introduction to Anthropology: Culture and Society (4)
2. Four units chosen from:
 - ANTH 140. World Civilizations I, the Rise of Civilization (4)
 - HIST 140. World Civilizations I, the Rise of Civilization (4)
3. Four units chosen from:
 - ECON 104. Introduction to Economics (4)
 - ECON 510. Economics in the Classroom (4)
4. ECON 200. Principles of Microeconomics (4)
5. ECON 202. Principles of Macroeconomics (4)
6. GEOG 103. Physical Geography (5)
7. Four units chosen from:
 - GEOG 100. Introduction to Human Geography (4)
 - SSCI 165. Regions and Peoples of the World (4)
8. Eight units chosen from:
 - GEOG 302. Geography of California (4)
 - HIST 370. History of California (4)
 - PSCI 330. State and Local Politics (4)
9. HIST 142. World Civilizations II, the Civilizations of the East and West (4)
10. HIST 144. World Civilizations III, the Expansion of Europe (4)
11. HIST 200. United States History to 1877 (4)
12. HIST 201. United States History, 1877 to the Present (4)
13. Four units chosen from:
 - HIST 380. History of World Religions (4)
 - PHIL 192. Introduction to Philosophy of Religion (4)
 - PHIL 193. Introduction to Eastern Philosophy (4)
14. PSCI 203. American Government (4)
15. PSYC 100. Introduction to Psychology (4)
16. SOC 100. The Study of Society (4)

History requirements (52 units)

1. HIST 305. Ancient and Medieval Europe (4)
2. HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
3. HIST 307. Modern Europe, 1815 to the Present (4)
4. Twelve units of other upper-division coursework in history.
 1. Four units chosen from:
 - HIST 383. Central and Western Islamic World to End of Ottoman Empire (4)

- HIST 384. History of Contemporary Southwest Asia (4)
- HIST 426. Early Imperial China (4)
- HIST 428. Medieval China (4)
- HIST 430. China, 1895-Present (4)
- HIST 432. Communist China (4)
- HIST 434. East Asia Since World War II (4)
- HIST 440. Japan, 1868-Present (4)
2. Four units chosen from:
- HIST 385. Africa to 1500 (4)
- HIST 386. Africa 1500 to 1870 (4)
- HIST 387. Africa 1870 to Present (4)
- HIST 450. History of South Africa (4)
3. Four units chosen from:
- HIST 390. History of Modern Mexico (4)
- HIST 465. Modern Central America (4)
- HIST 466. Foreign Relations of Latin America (4)
- HIST 467. Latin American History Through Film (4)
- HIST 469. Colonial Latin America (4)
- HIST 470. Modern Latin America (4)
5. Twelve units of upper-division coursework in history.
1. At least four units chosen from:
- HIST 340. African-American History, 1620-1865 (4)
- HIST 341. African-American History, 1865-Present (4)
- HIST 344. Women in U.S. History, 1620-1865 (4)
- HIST 345. Women in U.S. History, 1865-Present (4)
- HIST 391. Chicano History (4)
- HIST 565. Ethnic Minorities in American History (4)
- HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
- HIST 567. The Asian-American Experience (4)
2. At least four units chosen from:
- HIST 350. The American Colonies, 1607-1783 (4)
- HIST 351. The Evolution of American Democracy, 1783-1840 (4)
- HIST 354. Civil War and Reconstruction (4)
- HIST 356. The United States, 1877-1917 (4)
- HIST 357. The United States, 1917-1945 (4)
- HIST 359. The United States Since 1945 (4)
- HIST 540. Constitutional History of the United States (4)
- HIST 556. Foreign Relations of the United States (4)
6. HIST 490. The Study of History (4)
7. Twelve units of electives must be chosen from any of the previously listed history courses (provided that none have been used to meet requirements for the major) or any from the following:
- May choose only one of the following two courses:
- ANTH 312. Historical Archaeology (4)
- HIST 312. Historical Archaeology (4)
- HIST 320. History of Ancient Greece (4)
- HIST 321. History of Rome (4)
- HIST 395. Topics in History (4)
- HIST 396. Topics in History (2)
- HIST 400. Early Medieval Europe (4)
- HIST 401. Late Medieval Europe (4)
- HIST 402. Renaissance and Reformation (4)
- HIST 403. The Age of Absolutism and Enlightenment (4)
- HIST 410. Hitler's Europe (4)
- HIST 422. 20th Century Americans (4)
- HIST 480. History of Christianity I (4)
- HIST 481. History of Christianity II (4)
- HIST 500. Tudor and Stuart England (4)
- HIST 501. Britain, 1688-1901 (4)
- HIST 503. Europe Since 1945 (4)
- HIST 509. United States History in the Classroom (4)
- HIST 520. Tsarist Russia (4)
- HIST 521. The Soviet Union (4)
- HIST 535. Studies in European National History (4)
- HIST 560. History of the American West (4)
- HIST 562. History of Southern California (4)
- HIST 589. Revolutions in History (4)
- Additional requirement (four units, which also counts toward meeting General Education requirements)
1. Four units chosen from:
- HUM 325. Perspectives on Gender (4)
- HUM 335. The Origin and Contemporary Role of Latino Culture (4)
- HUM 350. The Cultures of American Childhood (4)
- HUM 370. African Heritage in the Arts (4)
- HUM 380. Comparative Studies in the Arts: East and West (4)
- NSCI 325. Perspectives on Gender (4)
- SSCI 316. Race and Racism (4)
- SSCI 325. Perspectives on Gender (4)
- SSCI 350. Roots of Modern Racism in America (4)

B.A. IN HISTORY - TRACK B

Requirements (68 units)

Total units required for graduation: 180

Requirements for the B.A. in History - Track B:

1. Four units chosen from:
- ANTH 140. World Civilizations I, the Rise of Civilization (4)
- HIST 140. World Civilizations I, the Rise of Civilization (4)
2. HIST 142. World Civilizations II, the Civilizations of the East and West (4)
3. HIST 144. World Civilizations III, the Expansion of Europe (4)
4. HIST 200. United States History to 1877 (4)
5. HIST 201. United States History, 1877 to the Present (4)
6. HIST 490. The Study of History (4)

7. Forty-four units of other upper-division course work in history selected in consultation with an advisor, twenty-four of which must be chosen from one of the following areas:

African History

- ANTH 302. African Archaeology (4)
 GEOG 310. Area Study: Africa (4)
 HIST 385. Africa to 1500 (4)
 HIST 386. Africa 1500 to 1870 (4)
 HIST 387. Africa 1870 to Present (4)
 HIST 450. History of South Africa (4)
 PSCI 481. Contemporary African Politics (4)

Asian History

- HIST 383. Central and Western Islamic World to End of Ottoman Empire (4)
 HIST 384. History of Contemporary Southwest Asia (4)
 HIST 426. Early Imperial China (4)
 HIST 428. Medieval China (4)
 HIST 430. China, 1895-Present (4)
 HIST 432. Communist China (4)
 HIST 434. East Asia Since World War II (4)
 HIST 440. Japan, 1868-Present (4)

European History

- HIST 305. Ancient and Medieval Europe (4)
 HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
 HIST 307. Modern Europe, 1815 to the Present (4)
 HIST 320. History of Ancient Greece (4)
 HIST 321. History of Rome (4)
 HIST 400. Early Medieval Europe (4)
 HIST 401. Late Medieval Europe (4)
 HIST 402. Renaissance and Reformation (4)
 HIST 403. The Age of Absolutism and Enlightenment (4)
 HIST 410. Hitler's Europe (4)
 HIST 480. History of Christianity I (4)
 HIST 481. History of Christianity II (4)
 HIST 500. Tudor and Stuart England (4)
 HIST 501. Britain, 1688-1901 (4)
 HIST 503. Europe Since 1945 (4)
 HIST 520. Tsarist Russia (4)
 HIST 521. The Soviet Union (4)
 HIST 535. Studies in European National History (4)

Latin American History

- HIST 390. History of Modern Mexico (4)
 HIST 391. Chicano History (4)
 HIST 465. Modern Central America (4)
 HIST 466. Foreign Relations of Latin America (4)
 HIST 467. Latin American History Through Film (4)
 HIST 469. Colonial Latin America (4)
 HIST 470. Modern Latin America (4)

United States History

- HIST 340. African-American History, 1620-1865 (4)
 HIST 341. African-American History, 1865-Present (4)
 HIST 344. Women in U.S. History, 1620-1865 (4)

- HIST 345. Women in U.S. History, 1865-Present (4)
 HIST 350. The American Colonies, 1607-1783 (4)
 HIST 351. The Evolution of American Democracy, 1783-1840 (4)
 HIST 354. Civil War and Reconstruction (4)
 HIST 356. The United States, 1877-1917 (4)
 HIST 357. The United States, 1917-1945 (4)
 HIST 359. The United States Since 1945 (4)
 HIST 422. 20th Century Americans (4)
 HIST 509. United States History in the Classroom (4)
 HIST 540. Constitutional History of the United States (4)
 HIST 556. Foreign Relations of the United States (4)
 HIST 560. History of the American West (4)
 HIST 562. History of Southern California (4)
 HIST 565. Ethnic Minorities in American History (4)
 HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
 HIST 567. The Asian American Experience (4)
 Up to 12 units from supporting disciplines outside the History Department may be included with approval of the advisor or department chair. Students working to develop other 24-unit concentrations may do so with the approval of the advisor and department chair.

TEACHING CREDENTIAL PROGRAM

Students wishing to be recommended for a single subject teaching credential in history must complete Track A of the Bachelor of Arts in History as well as certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program, or specific requirements for the single subject credential see [Page 161](#) or contact the Credentials Office (C.A.S.E.).

MINOR IN HISTORY

Requirements (32 units)

Requirements for a minor in History:

Requirements for a minor in history include 32 units, of which 24 units must be upper-division, to include 12 units as follows:

1. United States history
 Four units chosen from:
 May choose only one of the following two courses:
 ANTH 312. Historical Archaeology (4)
 HIST 312. Historical Archaeology (4)
 HIST 340. African-American History, 1620-1865 (4)
 HIST 341. African-American History, 1865-Present (4)
 HIST 344. Women in U.S. History, 1620-1865 (4)
 HIST 345. Women in U.S. History, 1865-Present (4)
 HIST 350. The American Colonies, 1607-1783 (4)
 HIST 351. The Evolution of American Democracy, 1783-1840 (4)
 HIST 354. Civil War and Reconstruction (4)
 HIST 356. The United States, 1877-1917 (4)
 HIST 357. The United States, 1917-1945 (4)

- HIST 359. The United States Since 1945 (4)
 HIST 391. Chicano History (4)
 HIST 395. Topics in History (4)
 HIST 396. Topics in History (2)
 HIST 422. 20th Century Americans (4)
 HIST 509. United States History in the Classroom (4)
 HIST 540. Constitutional History of the United States (4)
- HIST 556. Foreign Relations of the United States (4)
 HIST 560. History of the American West (4)
 HIST 565. Ethnic Minorities in American History (4)
 HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
 HIST 567. The Asian-American Experience (4)
2. European history
 Four units chosen from:
 HIST 305. Ancient and Medieval Europe (4)
 HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
 HIST 307. Modern Europe, 1815 to the Present (4)
 HIST 320. History of Ancient Greece (4)
 HIST 321. History of Rome (4)
 HIST 400. Early Medieval Europe (4)
 HIST 401. Late Medieval Europe (4)
 HIST 402. Renaissance and Reformation (4)
 HIST 403. The Age of Absolutism and Enlightenment (4)
 HIST 480. History of Christianity I (4)
 HIST 481. History of Christianity II (4)
 HIST 500. Tudor and Stuart England (4)
 HIST 501. Britain, 1688-1901 (4)
 HIST 503. Europe Since 1945 (4)
 HIST 520. Tsarist Russia (4)
 HIST 521. The Soviet Union (4)
 HIST 535. Studies in European National History (4)
3. Nonwestern history
 Four units chosen from:
 HIST 380. History of World Religions (4)
 HIST 383. Central and Western Islamic World to End of Ottoman Empire (4)
 HIST 384. History of Contemporary Southwest Asia (4)
 HIST 386. Africa to 1800 (4)
 HIST 387. Africa 1800 to Present (4)
 HIST 390. History of Modern Mexico (4)
 HIST 426. Early Imperial China (4)
 HIST 428. Medieval China (4)
 HIST 430. China, 1895-Present (4)
 HIST 432. Communist China (4)
 HIST 434. East Asia Since World War II (4)
 HIST 440. Japan, 1868-Present (4)
 HIST 450. History of South Africa (4)
 HIST 465. Modern Central America (4)
 HIST 466. Foreign Relations of Latin America (4)
 HIST 469. Colonial Latin America (4)
 HIST 470. Modern Latin America (4)

Other Requirements (20 units)

- Sixteen units of electives.
- Four units, which also count toward meeting General Education requirements, chosen from:
 - HUM 325. Perspectives on Gender (4)
 - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 - HUM 370. African Heritage in the Arts (4)
 - HUM 380. Comparative Studies in the Arts: East and West (4)
 - NSCI 325. Perspectives on Gender (4)
 - SSCI 316. Race and Racism (4)
 - SSCI 325. Perspectives on Gender (4)
 - SSCI 350. Roots of Modern Racism in America (4)

DEPARTMENTAL HONORS

Students majoring in history are eligible to receive honors in history at graduation if the following conditions are met:

- At least one-half of the course work required in the major is completed at this university;
- Earned a grade point average of at least 3.5 in the major, including courses for the major taken elsewhere;
- Earned an overall undergraduate grade point average of 3.0 ("B") or better;
- Successful completion of HIST 597. Senior Honors Project, resulting in a thesis paper.

Applications for candidacy must be made by the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor and one other faculty reader from the department will have the responsibility for evaluation of the completed thesis paper.

PHI ALPHA THETA

Students who have completed at least 12 units of history at CSUSB and who have a grade point average of at least 3.3 ("B+") in ALL history courses at the college level and who have a minimum overall grade point average of 3.0 ("B") in two-thirds of all other college level course work may join the university's chapter of Phi Alpha Theta, the international honor society in history. Additional information can be obtained from the Department of History.

MASTER OF ARTS

The university offers a Master of Arts in Education, Secondary Education Option, with an option in History, for secondary teachers. Details on this graduate program may be secured from the Department of History or the College of Education.

COURSE OFFERINGS IN HISTORY (HIST)

Lower Division

140. World Civilizations I, the Rise of Civilization

Activities and achievements of humans through the rise and diffusion of civilizations in Eurasia, Africa, and the Americas to about the dawn of the Christian era. (Also offered as ANTH 140. Students may not receive credit for both.) Formerly SSCI 140. (GE=D.3) (HIST 140+142+144=CAN HIST SEQ C) (4 units)

T. The instructor uses methods suitable for kindergarten through college classrooms. This course is intended for students in the B.A. in Liberal Studies, Accelerated Track. (Also offered as ANTH 140T. Students may not receive credit for both.) (4 units)

142. World Civilizations II, the Civilizations of the East and West

Major civilizations of the past, including the Mediterranean world, ancient India and China, the Byzantine, Islamic, sub-Saharan African and Amerindian Empires, Europe in the Middle Ages and the connections between and among some of these societies from approximately 100 B.C.E. to about 1450 C.E. (GE=D.3) (HIST 140+142+ 144=CAN HIST SEQ C) (4 units)

144. World Civilizations III, the Expansion of Europe

Rise to dominance of the European states and their impact throughout the world, 1500 C.E. to the present. (GE=D.3) (HIST 140+142+144=CAN HIST SEQ C) (4 units)

146. American Civilization

Historical development of the fundamental values of the American culture and the influences of these in selected areas of American life. This course meets the state code requirements in the U.S. Constitution and in U.S. history. (GE=D.1) (4 units)

200. United States History to 1877

Survey of the history of the United States from the colonial beginnings to 1877. This course meets the state code requirement in U.S. history. It also meets the state code requirement in the U.S. Constitution when taken in conjunction with HIST 201. (GE=D.1) (HIST 200=CAN HIST 8; HIST 200+201=CAN HIST SEQ B) (4 units)

201. United States History, 1877 to the Present

Survey of the history of the United States from 1877 to the present. This course meets the state code requirement in U.S. history. It also meets the state code requirement in the U.S. Constitution when taken in conjunction with HIST 200. (GE=D.1) (HIST 201=CAN HIST 10; HIST 200+201=CAN HIST SEQ B) (4 units)

Upper Division

305. Ancient and Medieval Europe

Institutions, culture and political development of Europe in the ancient and medieval periods from circa the eighth century B.C.E. to 1350. (4 units)

306. Early Modern Europe, the Renaissance to 1815

Institutions, culture, and political development of Europe from the Renaissance to the end of the Napoleonic Wars. Formerly HIST 300. (4 units)

307. Modern Europe, 1815 to the Present

Institutions, culture, and political development of Europe from the Congress of Vienna to the present. Formerly HIST 301. (4 units)

312. Historical Archaeology

Use of archaeological methods to study historic peoples. Historical and archaeological methods and their results. Focus will be primarily on North America from A.D. 1492 to modern times. (Also offered as ANTH 312. Students may not receive credit for both.) (4 units)

320. History of Ancient Greece

Greek history from the Minoan and Mycenaean civilizations to the reign of the Roman Emperor Justinian in 527-565 C.E. (4 units)

321. History of Rome

Roman history from earliest times to the end of the Roman Empire in the West. (4 units)

340. African-American History, 1620-1865

History of African-American people in the United States during the slave era. This course will examine the lives of slaves, the slave owners, and the system that bound them together as well as the place of free blacks in American society. (4 units)

341. African-American History, 1865-Present

Social, cultural, political and economic history of African-American people from emancipation to the present. This course will place special emphasis on African-American agency, self-development and self-determination. (4 units)

344. Women in U.S. History, 1620-1865

Examines women's roles in American history from colonial times through the Civil War. Special emphasis on the diversity among the lives of women. Formerly HIST 513. (4 units)

345. Women in U.S. History, 1865-Present

Examines women's roles in American history from 1865 to the present. Examines the diversity of women's experiences and their struggles for social, economic, political and cultural equality. Formerly HIST 513. (4 units)

350. The American Colonies, 1607-1783

The thirteen colonies from European origins to the attainment of independence. (4 units)

351. The Evolution of American Democracy, 1783-1840

Analysis of the development of American society, politics and economy during the Confederation, Federalist, Jeffersonian and Jacksonian Eras. (4 units)

354. Civil War and Reconstruction

Background and causes of the Civil War and the problems of Reconstruction. (4 units)

356. The United States, 1877-1917

Transformation of the nation between the end of Reconstruction and entrance into World War I. (4 units)

357. The United States, 1917-1945

Principal developments in American life from World War I to the end of World War II. (4 units)

358. United States in World War II

Survey of the diplomatic, military, social, economic and constitutional issues of the United States during World War II. (4 units)

359. The United States Since 1945

Major changes in the United States since the end of World War II. (4 units)

370. History of California

Political, economic, social and cultural development of California from Spanish times to the present. This course meets the state code requirement in state and local government. Formerly HIST 370A/370B. (4 units)

380. History of World Religions

Historical development of Judaism, Hinduism, Buddhism, Christianity and Islam. (4 units)

383. Central and Western Islamic World to End of Ottoman Empire

An introduction to the Islamic period in the Central and Western (North African and Ottoman) Islamic lands. Considers the development of Islam as a religion and civilization, the expansion of the Islamic world, the rise and fall of the Ottoman empire, and the confrontation with Europe. (4 units)

384. History of Contemporary Southwest Asia

History of the contemporary central Islamic lands since the fall of the Ottoman empire and the promulgation of the Balfour declaration, including the creation of new nation-states, Arab-Israeli and intra-Islamic conflicts, and Islamic fundamentalism. (4 units)

385. Africa to 1500

Deals with the main themes of African history to 1500: Ancient Egypt, the Mediterranean intercommunicating zone during the Phoenician, Greek and Roman empires, Christianity, trans-Saharan and other intra-African trading and exchange networks, Indian Ocean trading system, Islam and Islamization, development of African state systems and "stateless" sociopolitical constructs. (4 units)

386. Africa 1500 to 1870

Deals with the main themes of African history in the period following western European expansion and the developing world trade system that resulted. Topics covered include African political development, development and abolition of trans-Atlantic slave trade, discussion of trans-Saharan and Indian ocean slave and commodity export trades, and comparison of various social systems that developed on the continent. (4 units)

387. Africa 1870 to Present

Deals with the main themes of African history since 1870, including European partition of the continent, resistance to partition and colonial rule, systems of colonial rule in Africa, Christianity and Islam during the colonial period, independence movements, post-colonial states and development issues. (4 units)

390. History of Modern Mexico

Survey of Mexican history from the nineteenth century wars of independence to the present. (4 units)

391. Chicano History

Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest. (4 units)

395. Topics in History

Examination of topics of interest in history. May be repeated for credit as topics change. (4 units)

396. Topics in History

Examination of topics of interest in history. May be repeated for credit as topics change. (2 units)

399. Community Service Project

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of four units. No more than four units of credit for community service project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: a project proposal must be approved by the department in advance of enrollment. (Credit to be arranged: 1 or 2 units)

400. Early Medieval Europe

Survey of the political, economic, and social transformation of Europe from the fall of Rome through the eleventh century. (4 units)

401. Late Medieval Europe

Survey of the political, economic, and social transformation of Europe during the high Middle Ages, from the eleventh century to the fourteenth century. (4 units)

402. Renaissance and Reformation

Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648. (4 units)

403. The Age of Absolutism and Enlightenment

The period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement and the growth of revolutionary ideas. (4 units)

410. Hitler's Europe

Development of totalitarian ideologies focusing primarily on the theory and practice of National Socialism in Germany during the period 1918-1945. (4 units)

422. 20th Century Americans

Biographical focus on key American leaders who affected the course of 20th century American history. (4 units)

426. Early Imperial China

Principal political, social, economic, and cultural developments of China from the advent of Confucianism (500 B.C.E.) to the founding of the Sui Dynasty (589 C.E.). (4 units)

428. Medieval China

Principal political, social, economic, and cultural developments in China from 589-1644. (4 units)

430. China, 1895-Present

Institutions, culture, society, economy and political development of China from the Sino-Japanese War (1894-95) to the present. (4 units)

432. Communist China

Principal political, social, economic, and cultural developments in the People's Republic of China. (4 units)

434. East Asia Since World War II

Principal themes in the histories of Japan, China, Korea, and Vietnam since 1945. (4 units)

440. Japan, 1868-Present

Institutions, culture, society, economy and political development of Japan from the Meiji Restoration to the present. (4 units)

450. History of South Africa

History of the region of the Republic of South Africa, including early African settlement, European trade, conflict and conquest, the development and demise of apartheid, and contemporary developments. (4 units)

465. Modern Central America

Survey of the political, economic, and social history of the five major Central American nations—Nicaragua, El Salvador, Guatemala, Honduras, and Costa Rica—from their independence in the early 19th century to the present. (4 units)

466. Foreign Relations of Latin America

Survey of the foreign relations of the nations of Latin America with special emphasis on U.S.-Latin American relations. Formerly HIST 550. (4 units)

467. Latin American History Through Film

Cultural, social, political and economic issues that have shaped Latin America through the study and analysis of feature films and associated readings. (4 units)

469. Colonial Latin America

Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period. (4 units)

470. Modern Latin America

Survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America. (4 units)

480. History of Christianity I

Historical development of early Christianity from its origins to the fall of Rome. (4 units)

481. History of Christianity II

Historical development of Christianity from the fall of Rome to the eve of the Protestant Reformation. (4 units)

490. The Study of History

Introduction to the nature of history through a consideration of the problems of historical knowledge and of the works of major historians of the past. (4 units)

500. Tudor and Stuart England

Principal political, social, economic and religious developments of England from 1485 to 1688. (4 units)

501. Britain, 1688-1901

Principal political, social, economic and religious developments in Britain in the age of revolution and reform, from the Glorious Revolution to the death of Queen Victoria. (4 units)

503. Europe Since 1945

Europe since 1945, emphasizing the evolution of supranational political, economic, diplomatic, and military institutions in the Cold War and post-Cold War eras. (4 units)

509. United States History in the Classroom

Review of United States history from the perspective of the classroom teacher (grades 6 through 12). Identifies teaching strategies for various content areas in United States history. (4 units)

510. Modern France

History of French culture, society, and politics from the fall of Napoleon to the present. (4 units)

520. Tsarist Russia

Principal political, social, economic, and cultural developments in Russia from the Kievan state to the Soviet state, c. 900-1917. (4 units)

521. The Soviet Union

Principal political, social, economic, and cultural developments in the Soviet Union since 1917. (4 units)

535. Studies in European National History

Historical development of individual European nations (for example, Germany, France, Great Britain, Russia, Spain) in the modern period. May be repeated for credit as topics change. (4 units)

540. Constitutional History of the United States

American constitutional development from English and European origins to the present day. This course meets the state code requirement in U.S. history and U.S. Constitution. Prerequisite: HIST 200 or 201, or PSCI 410 or consent of instructor. (4 units)

556. Foreign Relations of the United States

Survey of American foreign policy with special emphasis on America's rise to world power in the 20th century. (4 units)

560. History of the American West

Survey of the western expansion of the American nation. (4 units)

562. History of Southern California

Political, economic, social and cultural development of Southern California from Pre-Columbian times. (4 units)

565. Ethnic Minorities in American History

Historical perspective of the major ethnic groups, their efforts to assimilate and their interaction with American society. (4 units)

566. Ethnic Minorities in the American Southwest: Past and Present

A comparative approach to the historical and contemporary experiences of Chicanos, Indians, Asians and other ethnic minorities in the Southwestern/Western United States. (4 units)

567. The Asian-American Experience

Examination of the immigration and post-immigration experiences of Chinese, Japanese, Filipino, Korean, and Southeast Asian newcomers to the United States since the 1840s. (4 units)

575. Internship in History

Supervised work and study in work situations involving historical skills. May be repeated once for credit. Prerequisites: major in history; one introductory statistics course; INFO 220, and ACCT 311; or consent of the department. (4 units)

589. Revolutions in History

Nature and causes of revolutions from an historical as well as a broad social science perspective; both revolutions and revolutionists from different parts of the world are examined. (4 units)

595. Independent Study

Special topics in historical research. A total of four units in HIST 595 may be applied toward the history major and eight units in HIST 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 4 units)

597. Senior Honors Project

Original research in an area of historical studies, culminating in a major research report receiving approval of the history faculty. Enrollment limited to students whose formal application for departmental honors is approved. (5 units)

Graduate level courses can be found on [Page 471](#).

HUMAN DEVELOPMENT

Department of Psychology

Social and Behavioral Sciences Building, Room 425
880-5570

Bachelor of Arts

Human Development

Child Development, Track I

Child Development, Track II: Multiple Subject
Equivalency Program

Adult Development and Aging Track

Life-Span Development Track

FACULTY: Esteban Diaz, Chuck Hoffman, Todd Jennings, Laura Kamptner, Rosemary McCaslin, Meridyth McLaren, Jim Pierson, Jason Reimer, Robert Ricco, Sue Spitzer, Sharon Ward, Amanda Wilcox-Herzog, Michael Weiss, Eugene Wong (Coordinator), Joanna Worthley

The human development major is an interdisciplinary program of study of the processes and changes that characterize human development. The major provides an important advantage of promoting an holistic and interdisciplinary approach to human growth and development that no single discipline can offer. Course offerings are drawn primarily from human development, psychology, sociology and anthropology, with electives available from other departments.

Students selecting the Bachelor of Arts degree in Human Development, with the study of human development and behavior as its major theme, typically choose careers related to working with people when they graduate, e.g., education, social services, counseling and guidance or in health delivery settings. The major also provides academic preparation for graduate-level training in related fields, including human or child development, family studies, psychology, social work, law, gerontology, human ecology, and education. Human development majors who plan on pursuing graduate level training should take at least one research methodology course as part of their degree program.

The following four tracks are available for students working toward a Bachelor of Arts in Human Development:

Child Development, Track I is designed to provide students with a solid background in child growth and development, and includes the option of focusing on early childhood education. This track prepares students for occupations or professions that call for child development specialists, e.g., early childhood education, infant and toddler specialists, and other positions involving work with children and families. This track will also prepare students for graduate level training in related fields (e.g. a multiple subjects teaching credential). The CSUSB Children's Center is an integral component of this track, and is used as an observation and practicum site for students. Students selecting this track may also earn the Children's Center Instructional and Supervisory Permits (i.e., early childhood teaching and administrative credentials).

Child Development, Track II: Multiple Subjects Equivalency Program is designed for students who plan to pursue an elementary teaching credential. This track is comprised of three components: 1) general education requirements, 2) a basic program which allows graduates to waive the examination requirement for entering multiple subject teaching credential programs, and 3) child development coursework designed to prepare students with a solid foundation in child growth and development. The latter also includes coursework in child assessment, child guidance, developmentally-appropriate practices with children, cognitive development, individual differences in learning style, the value of play, parenting and family relations, and exceptional development. The Liberal Studies Office (CH-137) coordinates this track and advises all Track II majors.

Adult Development and Aging Track is designed to prepare graduates for careers related to serving the needs of adults or the elderly, or as preparatory work for graduate level study in related fields. Students selecting this track may also earn a Certificate in Applied Gerontology (see [Page 333](#) or a human development advisor for details).

Life-Span Development Track is designed for students who wish to obtain a broad interdisciplinary background of human development and behavior across the life span.

A dual-degree program in Psychology and Human Development is also available for students seeking a combined program of study. This program may be especially suited for students planning to pursue careers in working with children and families, adult services, and also for those planning on pursuing graduate study in child or developmental psychology, clinical or counseling psychology, child or human development, or social work. See the human development coordinator for more information.

B.A. IN HUMAN DEVELOPMENT-CHILD DEVELOPMENT, TRACK I

Requirements (85 units)

Total units required for graduation: 180

Requirements for the B.A. in Human Development - Child Development Track I:

Lower-division requirements (32 units)

1. BIOL 100. Topics in Biology (5)
2. HD 280. Early Childhood Development (5)
3. HD 281A. Guidance of Young Children (4)
4. HD 281B. Laboratory: Guidance of Young Children (2)
5. PSYC 100. Introduction to Psychology (4)
6. PSYC 201. Developmental Psychology (4)
7. PSYC 270. Infant and Toddler Development (4)
8. SOC 100. The Study of Society (4)

Upper-division requirements (41 units)

1. Four units chosen from:
 - ANTH 330. Cross-Cultural Child-Rearing Practices (4)
 - ANTH 331. Anthropology of Human Development (4)
2. HD 324. Developmental Psychobiology (4)

3. Four units chosen from:
 - ESPE 530. Psychology and Education of Exceptional Individuals (4)
 - PSYC 350. Development of Exceptional Children (4)
 - PSYC 391. Psychopathology of Childhood (4)
 4. Four units chosen from:
 - HD 575. Internship (4)
 - HD 585. Student Teaching in Early Childhood Education (4-10)
 5. HD 480. Advanced Human Development (4)
 6. PSYC 320. Psychology of Middle Childhood (4)
 7. Four units chosen from:
 - PSYC 358. Cognitive Development (4)
 - PSYC 384. Personality and Social Development (4)
 8. Four units chosen from:
 - PSYC 303. Parenting and Family Relations (4)
 - SOC 340. Sociology of the Family (4)
 9. PSYC 400. Child Assessment (5)
 10. Four units chosen from:
 - ANTH 327. Primate Evolution and Ecology (4)
 - HD 302. History of Childhood (4)
 - HD 305. Multicultural Child Development (4)
 - HD 520. Intergenerational Aspects of Human Development (4)
 - SOC 339. Socialization (4)
- Statistics/Methodology (4 units)
1. A minimum of four units chosen from:
 - PSYC 210. Psychological Statistics (5)
 - SSCI 215. Statistics for the Social Sciences (4)
 - SOC 307. Social Research I (5)
- Electives (8 units)
1. Eight units chosen from (at least four must be upper-division):
 - ANTH 326. Human Origins (4)
 - ANTH 327. Primate Evolution and Ecology (4)
 - ANTH 330. Cross-Cultural Child-Rearing Practices (4)
 - ANTH 331. Anthropology of Human Development (4)
 - ANTH 460. Language and Culture (4)
 - ANTH 480. Magic, Religion and Science (4)
 - BIOL 306. Human Heredity and Development (4)
 - EELB 130. Introduction to Careers in Education (2)
 - EELB 321. Culture and Schooling (4)
 - EESL 536. Crosscultural Teaching (4)
 - ESPE 530. Psychology and Education of Exceptional Individuals (4)
 - ENG 320. Children's Literature (4)
 - HD 282A. Early Childhood Curriculum and Programs (4)
 - HD 282B. Laboratory: Early Childhood Curriculum and Programs (2)
 - HD 302. History of Childhood (4)
 - HD 303. Theories of Play (4)
 - HD 305. Multicultural Child Development (4)
 - HD 372. Psychology of Death and Dying (4)
 - HD 520. Intergenerational Aspects of Human Development (4)
 - HD 582. Special Topics in Human Development (1-5)
 - HD 595. Independent Study (2-4)
 - HSCI 342. Nutrition for Your Health (4)
 - HSCI 435. Health and Human Development (4)
 - HSCI 440. Family Health Issues for Educators (4)
 - MUS 410. Music in the Elementary Schools (4)
 - PSCI 450. Political Socialization (4)
 - PSYC 210. Psychological Statistics (5)
 - PSYC 303. Parenting and Family Relations (4)
 - PSYC 305. Psychology of Language (4)
 - PSYC 311. Introduction to Experimental Psychology (6)
 - PSYC 328. Psychology of Adolescent Development (4)
 - PSYC 329. Adulthood and Aging (4)
 - PSYC 350. Development of Exceptional Children (4)
 - PSYC 358. Cognitive Development (4)
 - PSYC 363. Biological Psychology (4)
 - PSYC 384. Personality and Social Development (4)
 - PSYC 391. Psychopathology of Childhood (4)
 - PSYC 431. Experimental Psychology: Developmental (6)
 - SOC 307. Social Research I (5)
 - SOC 339. Socialization (4)
 - SOC 340. Sociology of the Family (4)
 - SOC 341. Marriage and Family Among Blacks (4)
 - SOC 342. The Chicano Family (4)
 - SOC 343. Sociology of Family Violence (4)
 - SOC 352. Juvenile Offender (4)
 - SOC 354. Deviant Behavior (4)
 - SOC 410. Sociology of Race and Ethnicity (4)
 - SOC 418. Sociology of Social Welfare (4)
 - SOC 434. Community Organization (4)
 - SOC 436. Group Dynamics (4)
 - SOC 484. Social Casework (4)
 - TA 483. Children's Theater (4)
- Courses taken as electives may not have been used to satisfy upper-division requirements previously in the major.

B.A. IN HUMAN DEVELOPMENT, CHILD DEVELOPMENT - TRACK II: MULTIPLE SUBJECTS EQUIVALENCY PROGRAM

Requirements (177 units)

Total units required for graduation: 180

(For students planning on entering elementary teaching credential programs; includes general education requirements.)

This track is advised by the Liberal Studies Program Office.

BASIC PROGRAM (127 units)

- A. Language Arts (24 units)
- B. Humanities and the Arts (29 units)
- C. Mathematics and Natural Sciences (36 units)
- D. Social and Behavioral Sciences (28 units)
- E. Lifelong Understanding (10 units)
- F. Multicultural/Gender Category

CHILD DEVELOPMENT (50 units)

- G. Child Development Core (34 units)
- H. Biological Processes in Child Development (4 units)
- I. Sociocultural Processes in Child Development (4 units)
- J. Exceptional Child Development (4 units)
- K. Field Experience (4 units)

PROGRAM TOTAL: 177 units

All students choosing this track should give special attention to the following points before they begin their course work:

1. Since this program contains a variety of choices, students should seek advisement as early as possible at the Liberal Studies Peer Advising Center (PALS), CH-137;
2. By completing this track, students also can fulfill the general education requirements of the university;
3. A course can be counted only once for credit within this track;
4. With advisement and a careful selection of courses, students can also:
 - A. Complete a second major in certain fields;
 - B. Complete the requirements leading to a multiple subject teaching credential. See "Basic Teaching Credentials" in this catalog, [Page 154](#);
5. Credential candidates must maintain an overall grade point average of 2.7. Generally, courses taken in category F will be counted under categories A through D. Within categories A through E, the course work is subdivided further into courses in required sections and electives. Sections throughout the basic program that also meet general education requirements are marked "G.E."

Note: No one course may be counted in more than one category.

The number of majors in Child Development, Track II may be limited due to potential resource constraints.

Requirements for the B.A. in Child Development - Track II: Multiple Subjects Equivalency Program:

A. Language Arts Breadth Area (24 units)

1. Written Communication (G.E.):
 - ENG 101. Freshman Composition (4)
2. Upper-division Writing Requirement (G.E.):

Four units chosen from (ENG 306. Expository Writing is recommended; but any of the following courses qualifies):

 - EDUC 306. Expository Writing for Education (4)
 - ENG 306. Expository Writing (4)
 - HUM 306. Expository Writing for the Humanities (4)
 - MGMT 306. Expository Writing for Administration (4)
 - NSCI 306. Expository Writing for the Natural Sciences (4)
 - SSCI 306. Expository Writing for the Social Sciences (4)

Note: This requirement also can be met by passing a proficiency examination. Students who pass the exam may use the four units as free electives.

3. Oral Communication (G.E.)
 - COMM 120. Oral Communication (4)

4. Literature (G.E.)

Four units chosen from:

- ENG 110. World Literature I (4)
- ENG 111. World Literature II (4)
- ENG 160. World Drama (4)
- ENG 170. Studies in Literature (4)
- TA 160. World Drama (4)
- TA 212. Oral Interpretation of Literature (4)

5. Development of Language
 - ENG 311. The English Language (4)

6. Analysis of Literature

Four units chosen from:

- ENG 301. Analysis of Poetry (4)
- ENG 302. Analysis of Drama (4)
- ENG 303. Analysis of Prose Fiction (4)
- ENG 304. Analysis of Nonfiction Prose (4)
- TA 302. Analysis of Drama (4)

B. Humanities and the Arts Breadth Area (29 units)

1. Critical Thinking (G.E.)

Four units chosen from:

- COMM 180. Critical Thinking Through Argumentation (4)
- MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
- PHIL 105. Critical Thinking Through Argument Analysis (4)
- PHIL 200. Critical Thinking Through Symbolic Logic (4)
- PSYC 105. Critical Thinking Through Problems Analysis (4)
- SOC 180. Critical Thinking About Social Problems (4)

2. Philosophy (G.E.)

Four units chosen from:

- PHIL 190. Introduction to Philosophical Issues (4)
- PHIL 191. Introduction to Ethics (4)
- PHIL 192. Introduction to Philosophy of Religion (4)
- PHIL 193. Introduction to Eastern Philosophy (4)
- PHIL 194. Introduction to Knowledge and Reality (4)

3. Foreign Language (G.E.)

Four units chosen from:

- FLAN 150. Intermediate Language Study (4)
- FREN 150. Intermediate French (4)
- FREN 200. Culture and Communication (4)
- FREN 201. Conversation and Composition I (4)
- FREN 202. Conversation and Composition II (4)
- GER 150. Intermediate German (4)
- GER 212. Composition (4)
- GER 214. Conversation (4)
- GER 216. Introduction to Literary Texts (4)
- JAPN 150. Intermediate Japanese (4)
- MAND 150. Intermediate Mandarin (4)
- SPAN 150. Intermediate Spanish (4)
- SPAN 155. Intermediate Spanish for Spanish Speakers (4)
- SPAN 212. Composition (4)
- SPAN 213. Composition for Spanish Speakers (4)
- SPAN 214. Conversation (4)

4. Arts

1. Four units in the arts (G.E.) chosen from:
 - ART 200. Studies in Art (4)
 - MUS 180. Studies in Music (4)
 - TA 260. Introduction to Theatre (4)
2. ART 395. Art in the Classroom (3)
3. MUS 531. Musical Development for the Elementary Teacher (3)
4. Three units chosen from:
 - TA 385. Acting for Non-Majors (4)
 - TA 481. Creative Drama in the Classroom (3)
 - TA 483. Children's Theatre (4)
 - TA 484. Readers Theatre in the Classroom (4)
 - TA 579. Theatre in the Elementary Classroom (4)

Note: The extra units from TA 385, 483, 484 or 579 may count towards free electives.

5. Integrative Capstone in the Humanities (G.E.)

Four units chosen from:

- HUM 319. Myth, Metaphor and Symbol (4)
- HUM 325. Perspectives on Gender (meets the requirement in category F1) (4)
- HUM 330. Arts and Ideas (4)
- HUM 335. The Origin and Contemporary Role of Latino Culture (meets the requirement in category F1) (4)
- HUM 340. Interpretation and Values (4)
- HUM 344. Ideas in American Culture (4)
- HUM 350. The Cultures of American Childhood (meets the requirement in category F1) (4)
- HUM 370. African Heritage in the Arts (meets the requirement in category F1) (4)
- HUM 380. Comparative Studies in the Arts: East and West (meets the requirement in category F1) (4)
- HUM 385. A Cultural History of Fashion (4)

Note: Students can receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
- NSCI 325. Perspectives on Gender
- SSCI 325. Perspectives on Gender

C. Mathematics and Natural Sciences Breadth Area (36 units)

1. Mathematics (G.E.)

Four units chosen from:

- MATH 110. College Algebra (4)
- MATH 115. The Ideas of Mathematics (4)
- MATH 120. Pre-Calculus Mathematics (4)
- MATH 192. Methods of Calculus (4)
- MATH 211. Basic Concepts of Calculus (4)

2. Mathematical Applications

Four units chosen from:

- MATH 211. Basic Concepts of Calculus (4)
- MATH 212. Calculus II (4)
- MATH 302. Problem Solving in Mathematics (4)

Note: MATH 211. Basic Concepts of Calculus may not be taken for credit by students who have received credit for this course in category C1.

3. Life Science (G.E.)

BIOL 100. Topics in Biology (5)

4. Physical and Earth Sciences

Nine units chosen from one of the following three-course sequences (1, 2 or 3) to include one course in each of the physical sciences (physics and chemistry) and earth/space sciences (geology, geography and astronomy):

1. a. One of the following:

- CHEM 100. Chemistry in the Modern World (5)
- CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)

- b. GEOL 304. Geology in the Classroom (2)
- c. PHYS 304. Physics in the Classroom (2)

2. a. One of the following:

- PHYS 100. Physics in the Modern World (5)
- PHYS 121. Basic Concepts of Physics (5)
- PHYS 221. General Physics I (5)
- b. CHEM 304. Chemistry in the Classroom (2)
- c. GEOL 304. Geology in the Classroom (2)

3. a. One of the following:

- GEOG 103. Physical Geography (5)
- GEOL 101. Introductory Geology (5)
- PHYS 103. Descriptive Astronomy (5)

- b. CHEM 304. Chemistry in the Classroom (2)
- c. PHYS 304. Physics in the Classroom (2)

5. Special Topics in Science and Technology (G.E.)

Two units chosen from:

- BIOL 216. Genetics and Society (2)
- BIOL 217. Biology of Sexually Transmitted Diseases (2)
- CHEM 105. Chemicals in Our Environment (2)
- CSCI 124. Exploring the Information Superhighway (2)
- GEOL 210. Earthquakes: Science and Public Policy (2)

6. Mathematics and Natural Sciences Electives

1. CSCI 127. Introduction to Computer Technology for Educators (4)
2. MATH 301. Basic Mathematics for Educators (4)

Note: The following courses can be used to satisfy only one category and students cannot receive credit for both:

- CSCI 121. Computer Technology and People

and

- CSCI 127. Introduction to Computer Technology for Educators

7. Integrative Capstone in the Natural Sciences (G.E.)

Four units chosen from:

- NSCI 300. Science and Technology (4)
- NSCI 310. The Environment and Human Survival (4)
- NSCI 314. Life in the Cosmos (4)
- NSCI 320. Energy (4)
- NSCI 325. Perspectives on Gender (meets the requirement in category F1) (4)
- NSCI 351. Health and Human Ecology (4)
- NSCI 360. Legacy of Life (4)

Note: Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
 NSCI 325. Perspectives on Gender
 SSCI 325. Perspectives on Gender

D. Social and Behavioral Sciences Breadth Area (28 units)

- American History and Civilization (G.E.)
 Four units chosen from:
 HIST 146. American Civilization (4)
 HIST 200. United States History to 1877 (4)
 HIST 201. United States History, 1877 to the Present (4)
 - American Institutions (G.E.)
 PSCI 203. American Government (4)
Note: The American History, Constitution, State and Local Government requirement can be met by taking PSCI 203 and either HIST 146, 200, or 201. However, even if this requirement is met by examination, students must still take eight units of lower-division course work chosen from categories D3 and D4 and counted in categories D1 and D2.
 - World Cultures (G.E.)
 Four units chosen from:
 ANTH 140. World Civilizations I, the Rise of Civilization (4)
 HIST 140. World Civilizations I, the Rise of Civilization (4)
 HIST 142. World Civilizations II, the Civilizations of the East and West (4)
 HIST 144. World Civilizations III, the Expansion of Europe (4)
 SSCI 165. Regions and Peoples of the World (4)
 - Discipline Perspectives (G.E.)
 PSYC 100. Introduction to Psychology (4)
 SOC 100. The Study of Society (4)
 - PSYC 320. Psychology of Middle Childhood (4)
 - Integrative Capstone in the Social and Behavioral Sciences (G.E.)
 Four units chosen from:
 SSCI 300. Nonwestern World (4)
 SSCI 304. Contemporary Latin America (4)
 SSCI 315. Cultural Adaptation: The Quest for Survival (4)
 SSCI 316. Race and Racism (meets the requirement in category F1) (4)
 SSCI 320. Understanding Capitalism (4)
 SSCI 321. Urbanization and the Urban Environment (4)
 SSCI 325. Perspectives on Gender (meets the requirement in category F1) (4)
 SSCI 343. Understanding Socialism (4)
 SSCI 345. Religious Expression in America (4)
 SSCI 350. Roots of Modern Racism in America (4) (meets the requirement in Category F1)
- Note:** Students may receive credit for only one of the following courses:
 HUM 325. Perspectives on Gender
 NSCI 325. Perspectives on Gender
 SSCI 325. Perspectives on Gender

E. Lifelong Understanding (10 units)

- The Whole Person—physical and physiological issues (G.E.)
 Two units chosen from:
 KINE 205. Foundations for Lifetime Fitness and Wellness (2)
 NSCI 110. Health and Self Care (2)
- The Whole Person—social and psychological issue (G.E.)
 Two units chosen from:
 PHIL 101. Moral Choices in Life (2)
 PSYC 115. Personal and Social Adjustment (2)
 SOC 110. Choices in the Life Course (2)
- Physical Education (G.E.)
 - Two units chosen from courses listed below. Students are encouraged to elect a dance course, KINE 150:
 KINE 101. Individual and Dual Activities (2)
 KINE 114. Physical Fitness and Conditioning Activities (2)
 KINE 120. Combative and Martial Arts Activities (2)
 KINE 121. Team Activities (2)
 KINE 137. Aquatic Activities (2)
 KINE 147. A Fitness Odyssey (2)
 KINE 149. Independent Activity Project (2)
 KINE 150. Dance Activities (2)
 - Four units chosen from:
 DAN 481. Creative Dance in the Classroom (4)
 KINE 352. Movement for Children (4)

F. Multicultural/Gender Category

All students must take one upper-division course designated as meeting this requirement, chosen from groups 1 or 2 below:

- An appropriate Integrative capstone course in one of the following categories: B6, C7, or D6.
 HUM 325. Perspectives on Gender (4)
 HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 HUM 350. The Cultures of American Childhood (4)
 HUM 370. African Heritage in the Arts (4)
 HUM 380. Comparative Studies in the Arts: East and West (4)
 NSCI 325. Perspectives on Gender (4)
 SSCI 316. Race and Racism (4)
 SSCI 325. Perspectives on Gender (4)
 SSCI 350. Roots of Modern Racism in America (4)
- Upper-division general education elective courses that satisfy the Multicultural/Gender requirement:
 ANTH 325. Human Variation and the Concept of Race (4)
 ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
 COMM 304. Intercultural Communication (4)
 COMM 401. Gender, Race and Media (4)
 CJUS 451. Women and Crime (4)
 ECON 352. Political Economy of Poverty and Discrimination (4)
 ENG 314. American Indian Literature (4)
 HUM 460. Cultural Studies (4)
 MUS 308. Women in Music (4)

- MUS 350. Music of World Cultures (4)
 PA 305. Organizations in Multicultural and Diverse Societies (4)
 PHIL 364. Philosophy of Race and Gender (4)
 PHIL 367. Philosophy and Sexual Politics (4)
 TA 462. African-American Theatre and Drama (4)

G. Child Development Core (34 units)

1. HD 280. Early Childhood Development (5)
2. HD 281A. Guidance of Young Children (4)
3. HD 282A. Early Childhood Curriculum and Programs (4)
4. HD 303. Theories of Play (4)
5. PSYC 201. Developmental Psychology (4)
6. Four units chosen from:
 PSYC 303. Parenting and Family Relations (4)
 SOC 340. Sociology of the Family (4)
7. PSYC 358. Cognitive Development (4)
8. PSYC 400. Child Assessment (5)

H. Biological Processes in Child Development (4 units)

1. HD 324. Developmental Psychobiology (4)

I. Sociocultural Processes in Child Development (4 units)

1. Four units chosen from:
 ANTH 327. Primate Evolution and Ecology (4)
 ANTH 330. Cross-Cultural Child Rearing Practices (4)
 ANTH 331. Anthropology of Human Development (4)
 HD 302. History of Childhood (4)
 HD 305. Multicultural Child Development (4)
 SOC 339. Socialization (4)
 SOC 341. Marriage and Family Among Blacks (4)
 SOC 342. The Chicano Family (4)

J. Exceptional Child Development (4 units)

1. Four units chosen from:
 PSYC 350. Development of Exceptional Children (4)
 PSYC 391. Psychopathology of Childhood (4)

K. Field Experience (4 units)

1. Four units chosen from:
 EELB 275. Internship in Service Learning (1-5) for a total of (4)

Note: Internship must be performed in a school setting.

B.A. IN HUMAN DEVELOPMENT - ADULT DEVELOPMENT AND AGING TRACK

Requirements (85 units)

Total units required for graduation: 180

Requirements for the B.A. in Human Development - Adult Development and Aging Track:

Lower-division requirements (17 units)

1. BIOL 100. Topics in Biology (5)
2. PSYC 100. Introduction to Psychology (4)
3. PSYC 201. Developmental Psychology (4)
4. SOC 100. The Study of Society (4)

Upper-division requirements (52 units)

1. Four units chosen from:
 ANTH 331. Anthropology of Human Development (4)
 ANTH 332. Cross-Cultural Perspectives on Aging (4)
2. HD 324. Developmental Psychobiology (4)
3. HD 460. Adult Assessment (4)
4. HD 480. Advanced Human Development (4)
5. HD 575. Internship (4)
6. HSCI 423. Health and Wellness of Older Adults (4)
7. Four units chosen from:
 PSYC 303. Parenting and Family Relations (4)
 SOC 340. Sociology of the Family (4)
8. PSYC 329. Psychology of Adulthood and Aging (4)
9. Four units chosen from:
 PSYC 390. Abnormal Psychology (4)
 SOC 354. Deviant Behavior (4)
10. SOC 330. Social Gerontology (4)
11. Four units chosen from:
 HD 372. Psychology of Death and Dying (4)
 HSCI 550. The Health Aspects of Death and Dying (4)
12. Four units chosen from:
 HD 540. Work, Retirement and Leisure (4)
 SOC 368. Sociology of Work (4)
13. Applications:
 A minimum of four units chosen from:
 EVOC 504. Principles of Adult Education (4)
 HSCI 371. Community Health Services (4)
 May choose only one of the following two courses:
 PSCI 380. Introduction to Public Administration (4)
 PA 380. Introduction to Public Administration (4)
 PSYC 387. Community Psychology (4)
 SOC 418. Sociology of Social Work (4)
 SOC 484. Social Casework (4)

Statistics/Methodology (4 units)

1. A minimum of four units chosen from:
 PSYC 210. Psychological Statistics (5)
 SSCI 215. Statistics for the Social Sciences (4)
 SOC 307. Social Research I (5)

Electives (12 units)

1. Twelve units chosen from:
 ANTH 326. Human Origins (4)
 ANTH 327. Primate Evolution and Ecology (4)
 ANTH 331. Anthropology of Human Development (4)
 ANTH 332. Cross-Cultural Perspectives on Aging (4)
 ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
 ANTH 460. Language and Culture (4)
 ANTH 466. Anthropology of Health, Illness and Healing (4)
 ANTH 480. Magic, Religion and Science (4)
 ART 415. Senior Seminar: Art and Society (2)
 BIOL 306. Human Heredity and Development (4)
 BIOL 314. Biology of Human Sexuality (4)
 CJUS 462. Family Violence (4)

- COMM 304. Intercultural Communication (4)
 COMM 403. Interpersonal Relations (4)
 COMM 422. Communication in Conflict (4)
 ECON 352. Economics of Poverty and Discrimination (4)
 EVOC 504. Principles of Adult Education (4)
 HD 280. Early Childhood Development (5)
 HD 372. Psychology of Death and Dying (4)
 HD 520. Intergenerational Aspects of Human Development (4)
 HD 540. Work, Retirement and Leisure (4)
 HD 582. Special Topics in Human Development (1-5)
 HD 595. Independent Study (4)
 HIST 357. The United States, 1917-1945 (4)
 HIST 359. The United States Since 1945 (4)
 HSCI 310. Health and Human Sexuality (4)
 HSCI 342. Nutrition for Your Health (4)
 HSCI 364. Drug and Alcohol Use and Abuse (4)
 HSCI 371. Community Health Services (4)
 HSCI 374. Basic Auditory and Hearing Problems (4)
 HSCI 415. Medical Care Organizations (4)
 HSCI 422. Health Planning (4)
 HSCI 455. Organization and Management of Long-Term Care Facilities (4)
 HSCI 470. Health Behavior (4)
 HSCI 550. The Health Aspects of Death and Dying (4)
 KINE 205. Foundations for Lifetime Fitness and Wellness (2)
 KINE 210B. Topics in the Foundations of Physical Education: Introduction to Adapted Physical Education (2)
 KINE 277. Recreation Programming (4)
 KINE 330. Physical Education for the Exceptional Individual (4)
 KINE 331. Topics in Adapted Physical Education (2)
 KINE 483. Exercise Prescription (5)
 NURS 454. Anatomical/Physiological Processes of Aging (4)
 NURS 455. Chronic Diseases of the Aging Population (4)
 NURS 456. Adaptation to Chronic Illness (4)
 NURS 457. Health Services for the Non-Institutionalized Aging Person (2)
 May choose only one of the following two courses:
 PSCI 380. Introduction to Public Administration (4)
 PA 380. Introduction to Public Administration (4)
 PHIL 350. Ethics (4)
 PHIL 355. Contemporary Ethical Issues (4)
 PHIL 372. Philosophy of Religion (4)
 PSYC 210. Psychological Statistics (5)
 PSYC 270. Infant and Toddler Development (4)
 PSYC 301. Psychology of Human Sexuality (4)
 PSYC 303. Parenting and Family Relations (4)
 PSYC 311. Introduction to Experimental Psychology (6)
 PSYC 315. Communication Processes (4)

- PSYC 318. Health Psychology (4)
 PSYC 320. Psychology of Middle Childhood (4)
 PSYC 328. Psychology of Adolescent Development (4)
 PSYC 331. The Psychology of Women (4)
 PSYC 333. Drugs and Behavior (4)
 PSYC 340. Prejudice, Race, and Racism (4)
 PSYC 345. Cross-Cultural Psychology (4)
 PSYC 358. Cognitive Development (4)
 PSYC 363. Biological Psychology (4)
 PSYC 384. Personality and Social Development (4)
 PSYC 387. Community Psychology (4)
 PSYC 390. Abnormal Psychology (4)
 PSYC 431. Experimental Psychology: Developmental (6)
 SOC 307. Social Research I (4)
 SOC 339. Socialization (4)
 SOC 340. Sociology of the Family (4)
 SOC 341. Marriage and Family Among Blacks (4)
 SOC 342. The Chicano Family (4)
 SOC 354. Deviant Behavior (4)
 SOC 355. Medical Sociology (4)
 SOC 368. Sociology of Work and the Professions (4)
 SOC 380. Sociology of Religion (4)
 SOC 410. Sociology of Race and Ethnicity (4)
 SOC 418. Sociology of Social Welfare (4)
 SOC 434. Community Organization (4)
 SOC 436. Group Dynamics (4)
 SOC 444. Sociology of Gender (4)
 SOC 484. Social Casework (4)
 TA 510. Studies of Major Figures and Genres (4)

Courses taken as electives may not have been used to satisfy upper-division requirements previously in the major.

B.A. IN HUMAN DEVELOPMENT - LIFE-SPAN DEVELOPMENT TRACK

Requirements (85 units)

Total units required for graduation: 180

Requirements for the B.A. in Human Development - Life-Span Development Track:

Lower-division requirements (17 units)

1. BIOL 100. Topics in Biology (5)
2. PSYC 100. Introduction to Psychology (4)
3. PSYC 201. Developmental Psychology (4)
4. SOC 100. The Study of Society (4)

Upper-division requirements (32 units)

1. ANTH 331. Anthropology of Human Development (4)
2. HD 324. Developmental Psychobiology (4)
3. HD 575. Internship (4)
4. HD 480. Advanced Human Development (4)
5. Four units chosen from:
 - PSYC 303. Parenting and Family Relations (4)
 - SOC 340. Sociology of the Family (4)
6. PSYC 358. Cognitive Development (4)
7. PSYC 384. Personality and Social Development (4)

8. Four units chosen from:

- ANTH 327. Primate Evolution and Ecology (4)
 HD 302. History of Childhood (4)
 HD 305. Multicultural Child Development (4)
 HD 520. Intergenerational Aspects of Human Development (4)
 SOC 339. Socialization (4)

Developmental Stages (12 units)

1. A minimum of 12 units chosen from:

- HD 280. Early Childhood Development (5)
 PSYC 270. Infant and Toddler Development (4)
 PSYC 320. Psychology of Middle Childhood (4)
 PSYC 328. Psychology of Adolescent Development (4)

May choose only one of the following two courses:

- PSYC 329. Psychology of Adulthood and Aging (4)
 SOC 330. Social Gerontology (4)

Statistics/Methodology (4 units)

1. A minimum of four units chosen from:

- PSYC 210. Psychological Statistics (5)
 SSCI 215. Statistics for the Social Sciences (4)
 SOC 307. Social Research I (5)

Electives (20 units)

1. Twenty units chosen from (of which at least sixteen must be upper-division):

- ANTH 326. Human Origins (4)
 ANTH 327. Primate Evolution and Ecology (4)
 ANTH 330. Cross-Cultural Child-Rearing Practices (4)
 ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
 ANTH 460. Language and Culture (4)
 ANTH 480. Magic, Religion and Science (4)
 BIOL 306. Human Heredity and Development (4)
 BIOL 314. Biology of Human Sexuality (4)
 EELB 321. Culture and Schooling (4)
 May choose one of the following two courses, if not previously taken:
 HD 280. Early Childhood Development (5)
 PSYC 280. Early Childhood Development (5)
 HD 281A. Guidance of Young Children (4)
 HD 281B. Laboratory: Guidance of Young Children (2)
 HD 282A. Early Childhood Curriculum and Programs (4)
 HD 282B. Laboratory: Early Childhood Curriculum and Programs (2)
 HD 302. History of Childhood (4)
 HD 303. Theories of Play (4)
 HD 305. Multicultural Child Development (4)
 HD 372. Psychology of Death and Dying (4)
 HD 460. Adult Assessment (4)
 HD 520. Intergenerational Aspects of Human Development (4)
 HD 540. Work, Retirement, and Leisure (4)
 HD 582. Special Topics in Human Development (1-5)

- HD 595. Independent Study (2-4)
 HSCI 310. Health and Human Sexuality (4)
 HSCI 342. Nutrition for Your Health (4)
 HSCI 364. Drug and Alcohol Use and Abuse (4)
 HSCI 423. Health and Wellness of Older Adults (4)
 HSCI 435. Health and Human Development (4)
 HSCI 440. Family Health Issues for Educators (4)
 HSCI 470. Health Behavior (4)
 HSCI 550. The Health Aspects of Death and Dying (4)
 PSCI 450. Political Socialization (4)
 PSYC 210. Psychological Statistics (5)
 PSYC 270. Infant and Toddler Development (4)
 PSYC 301. Psychology of Human Sexuality (4)
 PSYC 303. Parenting and Family Relations (4)
 PSYC 305. Psycholinguistics (4)
 PSYC 311. Introduction to Experimental Psychology (6)
 PSYC 320. Psychology of Middle Childhood (4)
 PSYC 328. Psychology of Adolescent Development (4)
 PSYC 329. Psychology of Adulthood and Aging (4)
 PSYC 331. The Psychology of Women (4)
 PSYC 340. Prejudice, Race and Racism (4)
 PSYC 345. Cross-Cultural Psychology (4)
 PSYC 350. Development of Exceptional Children (4)
 PSYC 363. Biological Psychology (4)
 PSYC 390. Abnormal Psychology (4)
 PSYC 391. Psychopathology of Childhood (4)
 PSYC 400. Child Assessment (5)
 PSYC 431. Experimental Psychology: Developmental (6)
 SOC 307. Social Research I (5)
 SOC 330. Social Gerontology (4)
 SOC 339. Socialization (4)
 SOC 340. Sociology of the Family (4)
 SOC 341. Marriage and Family Among Blacks (4)
 SOC 342. The Chicano Family (4)
 SOC 343. Sociology of Family Violence (4)
 SOC 352. Juvenile Offender (4)
 SOC 354. Deviant Behavior (4)
 SOC 410. Sociology of Race and Ethnicity (4)
 SOC 418. Sociology of Social Welfare (4)
 SOC 434. Community Organization (4)
 SOC 436. Group Dynamics (4)
 SOC 444. Sociology of Gender (4)
 SOC 484. Social Casework (4)

Courses taken as electives may not have been used to satisfy upper-division requirements previously in the major.

Note: Occasionally topic and seminar courses are offered in various disciplines throughout the university that would be relevant for human development majors. Students interested in receiving elective credit toward the major for these courses should contact the coordinator of the human development program.

COURSE OFFERINGS IN HUMAN DEVELOPMENT (HD)

Lower Division

280. Early Childhood Development

Physical, social, emotional, and intellectual development of the young child from ages two to eight. Laboratory involves observation of young children. Four hours lecture and three hours laboratory. (Also offered as PSYC 280. Students may not receive credit for both.) Prerequisite: PSYC 100. (5 units)

281. Guidance of Young Children

- A. Child development theories and their implications for communicating and interacting with young children, for guiding child behavior, and for designing early childhood settings. Prerequisite: HD 280 or PSYC 280. (4 units)
- B. Laboratory: Supervised experience focusing on developmentally appropriate practices in communicating and interacting with young children and guiding child behavior. Six hours laboratory. Prerequisite: concurrent enrollment in HD 281A. (2 units)

282. Early Childhood Curriculum and Programs

- A. Methods, materials, and activities in early childhood education. Prerequisite: HD 281A. (4 units)
- B. Laboratory: Supervised experience focusing on planning, implementing, and evaluating curriculum activities in an early childhood setting. Six hours laboratory. Prerequisites: HD 281A and 281B and concurrent enrollment in HD 282A. (2 units)

Upper Division

302. History of Childhood

Historical survey of childhood within the contexts of family and society. (4 units)

303. Theories of Play

Interdisciplinary survey of theories of play and their applications to child development. Prerequisite: PSYC 201 (or equivalent) or HD 280 or PSYC 280. (4 units)

305. Multicultural Child Development

Theories of cultural and ethnic diversity and their applications to child development. (4 units)

315. The School-Aged Child

An interdisciplinary perspective of school-aged children's (5-12 years old) physical, cognitive, social and emotional development in educational settings. Emphasis will be placed on linking children's developmental characteristics with the school environment and developmentally-appropriate classroom practices. Requires five hours of observation and participation in a public elementary school classroom. Corequisite: EELB 310. (4 units)

324. Developmental Psychobiology

Psychobiological bases of human behavioral development throughout the life span. (Also offered as PSYC 324. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

372. Psychology of Death and Dying

A review of current theory and research on the psychology of grief, death and dying. (Also offered as PSYC 372. Students may not receive credit for both.) Prerequisite: PSYC 201 or equivalent. (4 units)

460. Adult Assessment

Theory, issues, and procedures in assessment of physical, cognitive, social, and emotional functioning in adulthood and old age. (Also offered as PSYC 460. Students may not receive credit for both.) Prerequisite: HSCI 423, or PSYC 329, or SOC 330 or consent of instructor. (4 units)

480. Advanced Human Development

Theory and research on physical, social, psychological and cultural aspects of human development from an interdisciplinary perspective. Formerly HD 580. Prerequisites: senior standing, 12 units of course work in human growth and development. (4 units)

513. Motivation and Behavior Management of Children

Addresses developmentally-appropriate practices in motivating and sustaining school-aged children's interest, involvement, and appropriate conduct. Theories of achievement motivation and research on student involvement will be addressed as they apply to classrooms where students differ in culture, gender, language, ethnicity, socioeconomic status, and handicapping conditions. Approaches to management of classroom resources and student behavior will be analyzed as students develop their own discipline plans. Five hours of observation/participation in a public elementary school classroom are required. (Also offered as EELB 513. Students may not receive credit for both.) Prerequisites: senior standing, EELB 310 and HD 315 or equivalent. (3 units)

520. Intergenerational Aspects of Human Development

Theory and research on the processes through which family members of different generations influence one another's development. (4 units)

540. Work, Retirement and Leisure

Theory and research on work, retirement, and leisure during the adult years. (Also offered as PSYC 540. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

575. Internship

Supervised work and study in private and public organizations. May be repeated once for credit. (Only four units may be applied to upper-division credit in the Human Development major.) Arrangements for the internship must be made during the quarter preceding the quarter in which the student plans on enrolling in this course (see Human Development coordinator). Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

582. Special Topics in Human Development

An intensive study of selected topics related to human development. May be repeated for credit as topics change. Prerequisite: upper-division or graduate standing. (Credit to be arranged: 1 to 5 units)

585. Student Teaching in Early Childhood Education

Supervised teaching in early childhood education programs. Graded credit/no credit. Prerequisites: HD 282A and 282B, consent of instructor and department. (Credit to be arranged: 4 to 10 units)

595. Independent Study

Special topics involving literature or field study. A total of eight units of HD 595 may be applied toward graduation, of which a maximum of four units can be applied toward upper-division elective requirements in the major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 4 units)

HUMAN SERVICES

Department of Sociology

Social and Behavioral Sciences Building, Room 327E
880-5541

Bachelor of Arts

Human Services

COORDINATOR: Randi Miller

Human Services is an interdisciplinary, career-oriented degree program drawing from sociology, psychology and health science. It is particularly suited to the paraprofessional person whose work role is that of a generalist who must serve in a variety of work settings and deal with a variety of human needs. Consequently, courses have been selected and designed to meet general occupational needs of human services personnel.

B.A. IN HUMAN SERVICES

Requirements (73 units)

Total units required for graduation: 180

Requirements for the B.A. in Human Services:

Lower-division requirements (13 units)

1. HSCI 120. Health and Society: An Ecological Approach (5)
2. PSYC 100. Introduction to Psychology (4)
3. SOC 100. The Study of Society (4)

Human Development and Behavior (20 units)

1. PSYC 201. Developmental Psychology (4)
2. PSYC 390. Abnormal Psychology (4)
3. SOC 340. Sociology of the Family (4)
4. SOC 354. Deviant Behavior (4)
5. Four units chosen from:
 - SOC 410. Sociology of Race and Ethnicity (4)
 - PSYC 345. Cross-Cultural Psychology (4)

Delivery of Human Services (8 units)

1. Four units chosen from:
 - HSCI 371. Community Health Services (4)
 - PSYC 387. Community Psychology (4)
2. SOC 434. Community Organization (4)

Human Services Practice (16 units)

1. Sixteen units chosen from:
 - ANTH 330. Cross-Cultural Child-Rearing Practices (4)
 - HSCI 301. Principles of Health Education for Health Educators (4)
 - HSCI 342. Nutrition for Your Health (4)
 - HSCI 364. Drug and Alcohol Use and Abuse (4)
 - HSCI 404. Women's Health Issues (4)
 - HSCI 423. Health and Wellness of Older Adults (4)
 - HSCI 440. Family Health Issues for Educators (4)
 - HSCI 470. Health Behavior and Community Health Education (4)
 - HSCI 489. Pre-Field Study Practicum (2)

- PSYC 329. Psychology of Adulthood and Aging (4)
- PSYC 331. The Psychology of Women (4)
- PSYC 333. Drugs and Behavior (4)
- PSYC 351. Behavior Modification: Principles and Applications (4)
- PSYC 391. Psychopathology of Childhood (4)
- SOC 330. Social Gerontology (4)
- SOC 343. Sociology of Family Violence (4)
- SOC 352. Juvenile Offender (4)
- SOC 355. Medical Sociology (4)
- SOC 356. Sociology of Mental Illness (4)
- SOC 418. Sociology of Social Welfare (4)
- SOC 444. Sociology of Gender (4)

Practice Methods (4 units)

1. Four units chosen from:
 - PSYC 315. Communication Processes (4)
 - SOC 484. Social Casework (4)

Research Skills (4 units)

1. A minimum of four units chosen from (the following courses require a prerequisite):
 - HSCI 598. Research Methodology in Health Science (4)
 - PSYC 311. Introduction to Experimental Psychology (6)
 - SOC 309. Social Research II (5)

Internship/Field Study (8 units)

A two quarter sequence of internship to be selected in consultation with an advisor to correspond with previous course work and career goals.

Note: All internship/field study units must be taken in the same department.

1. A minimum eight units chosen from:
 - A. HSCI 492A. Field Study: Action/Research in Human Ecology and Health (5)
 - HSCI 492B. Field Study: Action/Research in Human Ecology and Health (5)
 - B. PSYC 575. Internship in Psychology (4) for a total of (8)
 - C. SOC 575. Internship in Sociology and Social Work (5) for a total of (10)

HONORS IN THE MAJOR

Students majoring in human services are eligible to receive honors in human services at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Completion of a senior project approved in advance by the program coordinator.

Students interested in receiving this recognition must initiate the process by making a formal application with the Sociology Department.

HUMANITIES

College of Arts and Letters

University Hall, Room 237 or 339
880-5800 or 880-5869

The university offers courses of an interdisciplinary nature, but no degree program under the humanities designation.

COURSE OFFERINGS IN HUMANITIES (HUM)

Lower Division

180. The Art of Film

Developing critical appreciation of film as a mode of artistic expression. Explores creative applications of photography, literature, performance, music and scripting through screening of films ranging from productions of major studios to works of avant-garde artists. (GE=C.1) (4 units)

Upper Division

306. Expository Writing for the Humanities

Writing related to the humanities including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly HUM 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F.1) (4 units)

312. Theories of Language Acquisition and Learning

An examination of the linguistic, psychological and social aspects of first and second language acquisition, second dialect learning and learning theories. Prerequisite: ENG 311. (4 units)

319. Myth, Metaphor and Symbol

Nature and function of myth and mythmaking; ways in which figurative language is used in different disciplines to create models for understanding the world and human experience. Prerequisite: junior or senior standing. (GE=C.5) (4 units)

325. Perspectives on Gender

This interdisciplinary course uses scientific, humanistic and social science perspectives to foster an understanding of how gender roles in Western culture are established, maintained and changed. (Also offered as SSCI 325 and NSCI 325. Students may receive credit for only one of these courses.) Prerequisite: junior or senior standing. (GE=C.5,G.1) (4 units)

330. Arts and Ideas

An interdisciplinary exploration of the interaction between fundamental ideas (truth, goodness, beauty, freedom, equality, justice) and the arts (music, literature, painting, sculpture) in various Western cultures, as seen from philosophical, religious and historical perspectives. Prerequisite: junior or senior standing. (GE=C.5) (4 units)

335. The Origin and Contemporary Role of Latino Culture

An exploration of the birth of Latino culture in Spain and its continued development in Latin America and the United States as seen in literature, art, music, and philosophy. Prerequisite: junior or senior standing. (GE=C.5,G.1) (4 units)

340. Interpretation and Values

Investigation of different ways in which people find the meaning, or meanings, in texts or events. Alternative theoretical approaches applied to specific literary, artistic, legal, religious and historical examples. Prerequisite: junior or senior standing. (GE=C.5) (4 units)

344. Ideas in American Culture

An examination of recurring ideas in American culture, from Colonial times to the present, as seen in literature, art and thought. Prerequisite: junior or senior standing. (GE=C.5) (4 units)

350. The Cultures of American Childhood

An exploration of the ways childhood has been defined by biological, theoretical, cultural and social means in the United States. Special emphasis on the changing notions of childhood in terms of pop culture and the increasingly multiethnic landscape of America. (GE=C.5,G.1) (4 units)

370. African Heritage in the Arts

The various threads of African culture (religion, myth, philosophy, literature, painting, sculpture, music) are traced from their origin on the African continent through their impact in the Americas from the 16th century to the present. Prerequisite: junior or senior standing. (GE=C.5,G.1) (4 units)

380. Comparative Studies in the Arts: East and West

Explores the interplay of key ideas of religion and philosophy in literature, painting, music and film in selected Asian cultures as contrasted with analogous ideas and artistic genres in the West. Prerequisite: junior or senior standing. (GE=C.5,G.1) (4 units)

385. A Cultural History of Fashion

The history of clothing and its relation to other arts as a form of self-expression within shifting sociocultural circumstances. Prerequisite: junior or senior standing. (GE=C.5) (4 units)

460. Cultural Studies

Aspects of culture, language and civilization of selected ethnic groups within the United States and their contributions to American society; special attention to gender issues. (GE=C.5) (4 units)

496. Selected Topics in Humanities

Seminar in special topics chosen from arts or humanities. May be repeated for credit as topics change. (4 units)

497. Senior Assessment

Written examination of selected topics covered in the upper-division courses of the major. Generally assumes 30 hours of preparation and supervised review. May be repeated twice for credit. Graded credit/no credit. Prerequisite: senior standing. (4 units)

499. Methods and Materials in the Teaching of Humanities

Integration of educational philosophy and pedagogical concepts with the specific teaching materials of disciplines in the humanities. This course may not be counted toward fulfilling requirements of courses in the majors below. May be repeated for credit as topics change. Prerequisites: ESEC 332, senior or graduate standing and admission to the single subject credential program.

- A. Art (4 units)
- B. Foreign Languages (4 units)
- C. English (4 units)
- D. Music (4 units)
- E. Theatre Arts (4 units)
- F. Humanities (4 units)

500. Current Ideas and Issues in Latin America

An interdisciplinary exploration of the cultural, social, historical, and political contexts of Latin America in the 20th century. Serves as a culminating experience in the Latin American Studies Minor. Topics include the relationship between "high" and popular cultures, the role of history in the interplay between the various regions of the continent, the impact of mass media on cultural production, and recent political developments. Prerequisite: consent of instructor or completion of 16 units of interdisciplinary studies or Latin American Studies Minor.

- A. Taught in English. (4 units)
- B. Taught in Spanish. (4 units)

575. Internship in Service Learning

Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 30 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Graded credit/no credit. Prerequisite: one upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor. (Credit to be arranged: 1 to 5 units)

Graduate level courses can be found on [Page 472](#).

INFORMATION MANAGEMENT

Department of Information and Decision Sciences

Jack Brown Hall, Room 460
880-5723

FACULTY: Anthony Coulson, Yasha Karant, Frank Lin,
Tapie Rohm, Conrad Shayo, Walt Stewart (Chair),
Bob Wilson

The university offers concentrations in information management within the Bachelor of Arts in Administration, the Bachelor of Science in Administration and the Master of Business Administration. The details of these programs are listed under Administration on [Page 79](#). The Master of Business Administration can be found on [Page 379](#). The courses listed below are offered in support of these programs. Further information is available from the Department of Information and Decision Sciences.

COURSE OFFERINGS IN INFORMATION MANAGEMENT (INFO)

Lower Division

101. Introduction to Information Technology

An introduction to information technology concepts and skills. A survey of current computer systems, their use in organizations, and attending ethical issues. An introduction to popular software applications (word processing, spreadsheets, databases, and Internet). No prior computer experience necessary. Formerly INFO 220. Three hours lecture and two hours activity laboratory. (4 units)

107. Business Software

No prior computer experience necessary. One hour lecture and two hour activity laboratory. Materials fee required. Each topic may be taken once for credit. These courses may not be substituted for INFO 101.

- A. Microsoft Access (2 units)
- B. Microsoft PowerPoint (2 units)
- C. Microsoft Windows Environment (2 units)
- D. Introduction to Microsoft SQL Server (2 units)
- E. Oracle Data Base Systems (2 units)

125. Business Operating Systems

No prior computer experience necessary. One hour lecture and two hour activity laboratory. Materials fee required. Each topic may be taken once for credit. These courses may not be substituted for INFO 101.

- A. Using UNIX (2 units)
- B. UNIX Server (2 units)
- C. Microsoft Windows NT Server (2 units)
- D. Novel Netware Server (2 units)

140. The World Wide Web and Multimedia

No prior computer experience necessary. One hour lecture and two hour activity laboratory. Materials fee required. Each topic may be taken once for credit. These courses may not be substituted for INFO 101.

- A. Web Page Design (2 units)
- B. Web Master Administration (2 units)
- C. Multimedia (2 units)

274. Data Base Management

Fundamentals of data base design and use. Topics include data base application in organizations, end user needs analysis, logical data base design, data integrity and data base security. Students design and create working applications using a popular business data base program. Prerequisite: INFO 101 or consent of instructor. (4 units)

275. Information Networking

An introduction to the data communications field for the business student. Covers the introductory topics of hardware, software, protocols, channels, modems, local area networks, wide area networks and various applications. Students will gain hands-on experience with current popular data communication systems. Prerequisite: INFO 101 or consent of instructor. (4 units)

276. Systems Analysis and Design

Traditional systems analysis and design methods and tools. Topics include role of the systems analyst, feasibility studies, modeling technique systems design, reporting and documentation, and implementation strategies. Students will develop conceptual, analytical and practical skills in modeling organizational processes. Prerequisite: INFO 101 or consent of instructor. (4 units)

280. Information Mapping and Data Visualization

Introduction to concepts and tools of data visualization. Together with traditional charting and graphing methods, students are introduced to the use of geographic information systems (GIS). Using spatial modeling tools and quantitative methods, the course provides students with practical applications for converting data into information. Prerequisite: INFO 101 or consent of instructor. (4 units)

282. Business Systems I

An introduction to business system development in an object-oriented environment. Emphasizes object-oriented programming in a graphical user interface environment. Object-oriented concepts are applied to computer problem solving. Knowledge of computer programming is not essential. Prerequisite: INFO 101 or consent of instructor. (4 units)

283. Business Systems II

An advanced study of information systems development in an object-oriented environment. Object-oriented concepts are applied to construction of computer solutions for business information systems. Knowledge of computer programming is essential. Prerequisite: INFO 101, 282 or consent of instructor. (4 units)

285. Electronic Commerce

Fundamentals of e-commerce that build student skills and knowledge in developing, designing and managing e-commerce business. Topics include technical issues such as internet, intranet, extranet, tools, and technology; and business issues such as business concepts, current practice, and strategic opportunities that surround the emergence of e-commerce. Students will develop an understanding of technology infrastructure that enables e-commerce and the impact to e-commerce on business and the economy. (4 units)

Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 89.9 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

309. Information Management

Application of computer systems in organizations. Covers the topics of information systems planning, information forecasting, information technology and information processing. Prerequisite: INFO 101. (4 units)

372. Information Technology

Basic computer hardware, software, maintenance and training technologies. Topics include hardware components, operating system functions, information systems maintenance strategies for the organization, and end-user training options. Hands-on experience with different computer hardware, operating systems and software utilities. Formerly INFO 472. Prerequisite: INFO 309 or consent of instructor. (4 units)

378. Information Problem Solving

Systematic approaches to problem solving and decision making. Students will learn behavioral and organizational decision making processes relating to their roles as both manager and information systems designer. Topics include recognizing and defining the problem, troubleshooting, individual and group decision making, creativity and implementation strategies. Formerly INFO 478. Prerequisite: INFO 309 or consent of instructor. (4 units)

474. Advanced Data Base Management

Advanced computer data base concepts and skills including: data modeling, Structured Query Language (SQL), and client-server applications. Students will create applications using an advanced data base program package. Prerequisites: INFO 274, 372 and 378. (4 units)

475. Advanced Information Networking

Advanced computer networking and their application in organizations. Students will learn current computer network strategies and create advanced network applications. Prerequisites: INFO 275, 372 and 378. (4 units)

476. Advanced Systems Analysis and Design

Advanced analysis, design and implementation of information systems for organizations. Topic areas include data, process and network modeling techniques; structured, information engineering and object-oriented approaches to systems design; systems testing methods; implementation strategies and project management. Prerequisites: INFO 276, 372 and 378. (4 units)

477. Decision Support Systems

Formal information systems that support organizational decision making. Topics include the strategy, framework, design, implementation and evaluation of decision support systems. Students will create and apply decision support systems to planning, coordinating, organizing, controlling and/or directing tasks. (Also offered as MSCI 477. Students may not receive credit for both.) Prerequisites: INFO 309 and OM 304. (4 units)

479. Studies in Information Management

Research and discussion of current topics, problems, research, employment opportunities, and developments in the computer and information management fields. Prerequisite: INFO 309. (4 units)

480. Advanced Information Mapping and Visualization

Advanced study in and implementation of data visualization methods. Integration of information mapping, forecasting and data base tools and concepts to solve problems and support decision making. Students will learn and apply a popular geographic information system (GIS) to typical organizational problems. Prerequisites: INFO 274, 280, 372 and 378. (4 units)

484. Expert Systems

An introduction to concepts and techniques of expert systems. Covers the design, development, use and management of expert systems and other types of "intelligent" software used to solve problems. Students will build an expert system as a course project. Prerequisites: INFO 372 and 378 or consent of instructor. (4 units)

485. Advanced Electronic Commerce

Advanced technical and business skills for designing, developing and managing web-based e-commerce applications. Topics include technology infrastructure, industry analysis, business opportunities, organization applications, web technology, development tools, electronic payment systems, security, and legal and social issues. Specifically, students will develop a business plan, design the site, develop content, populate the database, create an advertising and marketing strategy, develop customer service and loyalty programs, and manage the business. Prerequisite: INFO 285. (4 units)

490. Information Systems Planning and Policy

An advanced study of Information Systems Planning for top management. Information Systems Planning is necessary for an organization to deploy, manage and control its information resources. Covers the theory, methods, tools and practices of Information Systems Planning, and the design and implementation of information systems policy and strategy. Students should take this course near the end of their concentration program. Prerequisites: INFO 372 and 378. (4 units)

575. Internship in Information Management

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Information Management

An intensive study of some phase of information management to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

INTERDISCIPLINARY STUDIES

The university offers a limited number of courses outside of its department and college structure.

Also offered as interdisciplinary studies are the certificate programs in international relations and bilingual/cross-cultural studies. See [Pages 313](#) and [338](#).

COURSE OFFERINGS IN INTERDISCIPLINARY STUDIES (IS)

Lower Division

101. Words and Ideas

A course combining ENG 101, Freshman Composition and PHIL 105, Critical Thinking Through Argument Analysis. Students must complete IS 101A and 101B before credit can be granted for either. IS 101A must be taken before 101B. Prerequisites: satisfactory score on the English Placement Test, or completion of the test and at least a grade of "C" in English 85 or 95.

A. (4 units)

B. (4 units)

Upper Division

460. Aspects of Chicano Culture

Cultural, political and social values of the Chicano as reflected in Chicano literature, art, music, teatro and other forms and their relationship to concurrent developments in Mexico.

(4 units)

KINESIOLOGY

Department of Kinesiology

Health and Physical Education Building, Room 120
880-5349

Bachelor of Science

Kinesiology
Exercise Science
Pedagogy
Pre-Physical Therapy

Teaching Credential Programs

Adapted Physical Education Specialist Credential
(Offered through the College of Education.)
Single Subject

Master of Arts

Education - Kinesiology Option
(Degree requirements can be found on [Page 417.](#))

Minor

Kinesiology
Recreation

Certificate Programs

Coaching
Fitness Management
Recreation Leadership

FACULTY: Sarah Boeh, Robert Carlson, Jerry Freischlag, Chris Grenfell, Bryan Haddock, Steve Kinzey, Carolyn Martin, Greg Price, Reg Price, Terry Rizzo (Chair), Cliff Singh, Belinda Stillwell

The Department of Kinesiology offers a curriculum leading to a Bachelor of Science degree with a major in kinesiology. In addition, a minor in kinesiology, a minor in recreation, an adapted physical education specialist credential and a single subject teaching credential are offered. The credentials are offered through the College of Education.

The major in kinesiology is designed for the student preparing to:

1. Become a physical education teacher;
2. Select a career in nonteaching fields related to physical activity, such as commercial physical fitness, sport business or commercial leisure services;
3. Pursue graduate work in kinesiology or related disciplines.

B.S. IN KINESIOLOGY

Requirements

Exercise Science (88 units)

Pedagogy (80 units)

Pre-Physical Therapy (123 units)

Total units required for graduation: 186

Requirements for the B.S. in Kinesiology:

Core requirements (46 units)

1. BIOL 223. Human Physiology and Anatomy I (5)
2. BIOL 224. Human Physiology and Anatomy II (5)
3. KINE 210A. Introduction to Kinesiology (2)
4. KINE 254. Field Experience (2)
5. KINE 261D. Professional Activity Preparation in Individual and Dual Sports: Fitness and Conditioning (2)
6. KINE 305. Prevention and Treatment of Sports Injuries (4)
7. KINE 310. History and Philosophy of Physical Activity (4)
8. KINE 325. Motor Development (2)
9. KINE 370. Measurement and Evaluation in Kinesiology (4)
10. KINE 410. Motor Control and Skill Learning (4)
11. KINE 480. Biomechanics (5)
12. KINE 481. Exercise Physiology (5)
13. KINE 490. Senior Seminar in Kinesiology (2)

Concentrations (34-77 units)

One of the following three concentrations is required for the major:

Exercise Science Concentration (42 units)

Lower-division requirements (16 units)

1. KINE 200. First Aid (2)
2. KINE 240. Exercise Science Software (4)
3. Physics

A minimum of five units chosen from:

- PHYS 100. Physics in the Modern World (5)
- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 221. General Physics I (5)

4. Chemistry

A minimum of five units chosen from:

- CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)

Upper-division requirements (26 units)

1. Four units chosen from:

- KINE 323. Sociology of Physical Activity (4)
- KINE 324. Psychology of Physical Activity (4)

2. KINE 360. Physical Activity and Aging (2)
3. KINE 382. Nutrition for Health, Fitness and Sports (4)
4. KINE 471. Exercise Science Program Management (4)
5. KINE 483. Exercise Prescription (4)

6. KINE 485. EKG Interpretation (2)
7. KINE 486. Instrumentation in Exercise Science (2)
8. KINE 488. Legal Issues in Exercise Science (2)
9. KINE 493. Internship (2)

Pedagogy Concentration (34 units)

Lower-division requirements (18 units)

1. KINE 210B. Introduction to Kinesiology: Adapted Physical Education (2)
2. KINE 261C. Professional Activity Preparation in Individual and Dual Sports: Dance (2)
3. KINE 261F. Professional Activity Preparation in Individual and Dual Sports: Gymnastics (2)
4. KINE 261H. Professional Activity Preparation in Individual and Dual Sports: Swimming (2)
5. Two units chosen from:
 - KINE 261B. Professional Activity Preparation in Individual and Dual Sports: Badminton (2)
 - KINE 261E. Professional Activity Preparation in Individual and Dual Sports: Golf (2)
 - KINE 261G. Professional Activity Preparation in Individual and Dual Sports: Racquetball (2)
 - KINE 261J. Professional Activity Preparation in Individual and Dual Sports: Tennis (2)
 - KINE 261K. Professional Activity Preparation in Individual and Dual Sports: Track and Field (2)
6. Eight units chosen from:
 - KINE 263A. Professional Activity Preparation of Team Sports: Basketball (2)
 - KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag) (2)
 - KINE 263C. Professional Activity Preparation of Team Sports: Soccer (2)
 - KINE 263D. Professional Activity Preparation of Team Sports: Softball (2)
 - KINE 263E. Professional Activity Preparation of Team Sports: Volleyball (2)

Upper-division requirements (16 units)

1. KINE 323. Sociology of Physical Activity (4)
2. KINE 324. Psychology of Physical Activity (4)
3. KINE 472. Program Design in Physical Education (4)
4. KINE 473. Instructional Strategies in Physical Education (4)

Pre-Physical Therapy Concentration (77 units)

Students are advised to work closely with an advisor, following entrance requirements for the graduate program to which the student will apply.

Note: Several required courses also apply in the university's general education program (refer to [Page 73](#)).

Lower-division requirements (69 units)

1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. BIOL 200. Biology of the Cell (5)
4. BIOL 201. Biology of Organisms (5)
5. BIOL 202. Biology of Populations (5)
6. BIOL 220. Principles of Microbiology (5)
7. PSYC 100. Introduction to Psychology (4)
8. PSYC 201. Developmental Psychology (4)
9. MATH 192. Methods of Calculus (4)
10. Physics

A minimum of 13 units chosen from Group A or B:

Group A

- PHYS 121. Basic Concepts of Physics I (5)
- PHYS 122. Basic Concepts of Physics II (4)
- PHYS 123. Basic Concepts of Physics III (4)

Group B

- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)

11. COMM 120. Oral Communication (4)
12. ENG 101. Freshman Composition (4)
13. English
 - Four units chosen from:
 - ENG 110. World Literature I (4)
 - ENG 111. World Literature II (4)

Upper-division requirements (8 units)

1. NSCI 306. Expository Writing for the Natural Sciences (4)
2. PSYC 390. Abnormal Psychology (4)

ADAPTED PHYSICAL EDUCATION SPECIALIST CREDENTIAL

Requirements (16 units)

Credential Requirements (16 units)

Upper-division requirements (16 units)

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
2. KINE 330. Physical Education for the Exceptional Individual (4)
3. Eight units chosen from:
 - KINE 331A. Topics in Adapted Physical Education: Adapted aquatics (2)
 - KINE 331B. Topics in Adapted Physical Education: Physically handicapped (2)
 - KINE 331C. Topics in Adapted Physical Education: Learning handicapped (2)
 - KINE 331D. Topics in Adapted Physical Education: Communicatively handicapped (2)
 - KINE 331E. Topics in Adapted Physical Education: Severely handicapped (2)

SINGLE SUBJECT TEACHING CREDENTIAL

The Bachelor of Science in Kinesiology is approved as a single subject matter teaching credential program. In addition to the requirements of the major, students must complete certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program or specific requirements for the single subject matter waiver program see [Page 161](#) or contact the Credentials Office (C.A.S.E.).

MINOR IN KINESIOLOGY

Requirements (43 units)

Requirements for a minor in Kinesiology:

Lower-division requirements (30 units)

1. BIOL 223. Human Physiology and Anatomy I (5)
2. BIOL 224. Human Physiology and Anatomy II (5)
3. KINE 210A. Introduction to Kinesiology (2)
4. KINE 254. Field Experience (2)
5. Eight units chosen from:
 - KINE 261A. Professional Activity Preparation in Individual and Dual Sports: Archery (2)
 - KINE 261B. Professional Activity Preparation in Individual and Dual Sports: Badminton (2)
 - KINE 261C. Professional Activity Preparation in Individual and Dual Sports: Dance (2)
 - KINE 261D. Professional Activity Preparation in Individual and Dual Sports: Fitness and Conditioning (2)
 - KINE 261E. Professional Activity Preparation in Individual and Dual Sports: Golf (2)
 - KINE 261F. Professional Activity Preparation in Individual and Dual Sports: Gymnastics (2)
 - KINE 261G. Professional Activity Preparation in Individual and Dual Sports: Racquetball (2)
 - KINE 261H. Professional Activity Preparation in Individual and Dual Sports: Swimming (2)
 - KINE 261J. Professional Activity Preparation in Individual and Dual Sports: Tennis (2)
 - KINE 261K. Professional Activity Preparation in Individual and Dual Sports: Track and Field (2)
6. Four units chosen from:
 - KINE 263A. Professional Activity Preparation of Team Sports: Basketball (2)
 - KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag) (2)
 - KINE 263C. Professional Activity Preparation of Team Sports: Soccer (2)

- KINE 263D. Professional Activity Preparation of Team Sports: Softball (2)
- KINE 263E. Professional Activity Preparation of Team Sports: Volleyball (2)
- 7. KINE 305. Prevention and Treatment of Sports Injuries (4)

Upper-division requirements (13 units)

1. Four units chosen from:
 - KINE 323. Sociology of Physical Activity (4)
 - KINE 324. Psychology of Physical Activity (4)
2. Four units chosen from:
 - KINE 471. Exercise Science Program Management (4)
 - KINE 472. Program Design in Physical Education (4)
3. KINE 481. Exercise Physiology (5)

MINOR IN RECREATION

Requirements (24 units)

Requirements for a minor in Recreation:

Lower-division requirements (16 units)

1. KINE 200. First Aid (2)
2. KINE 203. Introduction to Recreation (4)
3. KINE 254. Field Experience (2)
4. KINE 271. Recreation Leadership (4)
5. KINE 277. Recreation Programming (4)

Upper-division requirements (8 units)

1. KINE 365. Outdoor Education and Camp Leadership (4)
2. KINE 471. Exercise Science Program Management (4)

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to: a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for further certificate information.

Certificate in Coaching

Certificate requirements (32 units)

Lower-division requirements (12 units)

1. KINE 200. First Aid (2)
2. Four units chosen from:
 - KINE 261A. Professional Activity Preparation in Individual and Dual Sports: Archery (2)
 - KINE 261B. Professional Activity Preparation in Individual and Dual Sports: Badminton (2)
 - KINE 261C. Professional Activity Preparation in Individual and Dual Sports: Dance (2)

- KINE 261D. Professional Activity Preparation in Individual and Dual Sports: Fitness and Conditioning (2)
 - KINE 261E. Professional Activity Preparation in Individual and Dual Sports: Golf (2)
 - KINE 261F. Professional Activity Preparation in Individual and Dual Sports: Gymnastics (2)
 - KINE 261G. Professional Activity Preparation in Individual and Dual Sports: Racquetball (2)
 - KINE 261H. Professional Activity Preparation in Individual and Dual Sports: Swimming (2)
 - KINE 261J. Professional Activity Preparation in Individual and Dual Sports: Tennis (2)
 - KINE 261K. Professional Activity Preparation in Individual and Dual Sports: Track and Field (2)
3. Four units chosen from:
- KINE 263A. Professional Activity Preparation of Team Sports: Basketball (2)
 - KINE 263B. Professional Activity Preparation of Team Sports: Football (Flag) (2)
 - KINE 263C. Professional Activity Preparation of Team Sports: Soccer (2)
 - KINE 263D. Professional Activity Preparation of Team Sports: Softball (2)
 - KINE 263E. Professional Activity Preparation of Team Sports: Volleyball (2)
4. KINE 267. Sports Officiating (2)

Upper-division requirements (20 units)

- 1. KINE 323. Sociology of Physical Activity (4)
- 2. KINE 324. Psychology of Physical Activity (4)
- 3. KINE 343. Methods and Techniques of Coaching (4)
- 4. KINE 472. Program Design in Physical Education (4)
- 5. KINE 480. Biomechanics (4)

Certificate in Fitness Management

Certificate requirements (33 units)

- 1. KINE 305. Prevention and Treatment of Sports Injuries (4)
- 2. KINE 454. Field Work in Physical Education or Recreation II (3)
- 3. KINE 471. Exercise Science Program Management (4)
- 4. KINE 480. Biomechanics (4)
- 5. KINE 481. Exercise Physiology (5)
- 6. KINE 482. Contemporary Fitness Programs (4)
- 7. KINE 483. Exercise Prescription (5)
- 8. KINE 580. Exercise, Energy and Human Performance (4)

Certificate in Recreation Leadership

Certificate requirements (31 units)

Lower-division requirements (20 units)

- 1. KINE 203. Introduction to Recreation (4)
- 2. KINE 271. Recreation Leadership (4)
- 3. KINE 277. Recreation Programming (4)
- 4. Four units chosen from:
 - KINE 137A. Aquatic Activities: Lifeguard training (2)
 - KINE 137C. Aquatic Activities: Basic and emergency water safety (2)
 - KINE 137D. Aquatic Activities: Boating and canoeing (2)
 - KINE 137F. Aquatic Activities: Scuba diving (2)
 - KINE 137G. Aquatic Activities: Skin diving (2)
 - KINE 137H. Aquatic Activities: Springboard diving (2)
 - KINE 137J. Aquatic Activities: Swimming (2)
 - KINE 137K. Aquatic Activities: Water polo (2)
- 5. Four units chosen from:
 - KINE 146A. Outdoor Skills Activities: Backpacking (2)
 - KINE 146B. Outdoor Skills Activities: Camping (2)
 - KINE 146C. Outdoor Skills Activities: Mountaineering (2)
 - KINE 146D. Outdoor Skills Activities: Orienteering (2)
 - KINE 146E. Outdoor Skills Activities: Survival skills (2)

Upper-division requirements (11 units)

- 1. KINE 365. Outdoor Education and Camp Leadership (4)
- 2. KINE 454. Field Work in Physical Education or Recreation II (3)
- 3. Four units chosen from:
 - KINE 471. Exercise Science Program Management (4)
 - KINE 472. Program Design in Physical Education (4)

DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in kinesiology after meeting the following requirements:

- 1. Earned a 3.5 grade point average in all kinesiology course work;
- 2. Earned a 3.0 ("B") grade point average overall;
- 3. Over one-half of the course work for the kinesiology major must be taken at California State University, San Bernardino;
- 4. Recommendation by the kinesiology faculty.

KINESIOLOGY - BASIC INSTRUCTION PROGRAM

Kinesiology 101-150

The basic instruction program offers a wide variety of courses that provides students an opportunity to: participate in physical activity on a regular basis; develop, improve and maintain physical fitness; learn and practice lifetime sports skills; and acquire the knowledge that physical exercise is essential for healthful adult living in current society. Not all courses listed are offered each academic year.

Kinesiology - Intercollegiate Athletics (160 and 190)

These courses are designed for those students participating in intercollegiate sports. If a student does not become a member of a team, they will be dropped from the course.

General education requirement for graduation:

All students are required to complete a basic instruction activity course chosen from any one of the following categories:

- KINE 101. Individual and Dual Activities
- KINE 114. Physical Fitness and Conditioning Activities
- KINE 120. Combative and Marital Arts Activities
- KINE 121. Team Activities
- KINE 137. Aquatic Activities
- KINE 147. A Fitness Odyssey
- KINE 149. Independent Activity Project
- KINE 150. Dance Activities

Ten additional units of basic instruction activity courses (numbered 150 and below) for a total of twelve units maximum may be applied toward graduation. These units may be from the same course.

COURSE OFFERINGS IN KINESIOLOGY (KINE)

Lower Division

The following activities include instruction at all skill levels unless specified in the class schedule as limited to beginning, intermediate or advanced level instruction.

101. Individual and Dual Activities

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports. Graded ABC/no credit. Formerly PE 101. (GE=E.3)

- A. Archery (2 units)
- B. Badminton (2 units)
- C. Bicycling (Field trips required.) (2 units)
- D. Bowling (Field trips required.) (2 units)
- F. Golf (Field trips required.) (2 units)
- G. Gymnastics (2 units)
- N. Racquetball (2 units)
- P. Skiing-Alpine (Field trips required.) (2 units)
- Q. Skiing-Nordic (Field trips required.) (2 units)
- S. Tennis (2 units)

114. Physical Fitness and Conditioning Activities

Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Graded ABC/no credit. Formerly PE 114. (GE=E.3)

- A. Body conditioning (2 units)
- B. Circuit training (2 units)
- C. Jogging (2 units)
- E. Weight training (2 units)
- F. Yoga (2 units)

120. Combative and Martial Arts Activities

Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Graded ABC/no credit. Formerly KINE 117 and PE 117. (GE=E.3)

- A. Aikido (2 units)
- B. T'ai Chi (2 units)
- C. Capoeira (2 units)
- D. Judo (2 units)
- E. Karate (2 units)
- F. Self-Defense (2 units)
- G. Cardio-Arts (2 units)
- H. Fencing (2 units)
- I. Wrestling (2 units)

121. Team Activities

Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Graded ABC/no credit. Formerly PE 121. (GE=E.3)

- A. Basketball (2 units)
- C. Flag football (2 units)
- F. Soccer (2 units)
- G. Softball (2 units)
- J. Team handball (2 units)
- K. Volleyball (2 units)

137. Aquatic Activities

Instruction and practice of basic skills and techniques used in aquatic activities. Graded ABC/no credit. (GE=E.3)

- A. Lifeguard training. (Red Cross certification available.) Formerly PE 137A. (2 units)
- C. Basic and emergency water safety. (Red Cross certification available.) Formerly PE 137C. (2 units)
- D. Boating and canoeing. (Field trips required. Red Cross certification available.) Formerly PE 137D. (2 units)
- F. Scuba diving. (Field trips required. NAUI certification available. Doctor's physical examination required.) Formerly PE 137F. Prerequisite: skin diving or consent of instructor. (2 units)
- G. Skin diving. (Field trips required. NAUI certification available.) Formerly PE 137G. (2 units)
- H. Springboard diving. Formerly PE 137H. (2 units)
- J. Swimming. (Red Cross certification available.) Formerly PE 137J. (2 units)
- K. Water polo. Formerly PE 137K. (2 units)

146. Outdoor Skills Activities

Introduction and practice to basic skills, equipment and safety techniques common to the spectrum of outdoor/wilderness activities. Field trips required. Graded ABC/no credit. Formerly PE 146.

- A. Backpacking (2 units)
- B. Camping (2 units)

- C. Mountaineering (2 units)
- D. Orienteering (2 units)
- E. Survival Skills (2 units)

147. A Fitness Odyssey

A self-paced exercise and/or plan of study for the mature adult. Programs designed to fit individual life style needs on a contract basis following examination of past and present activity patterns. Graded ABC/no credit. Formerly PE 147. (GE=E.3) (2 units)

148. Leisure Sports

Mild to moderately active leisure activities suited to the capabilities and interests of the mature adult. Graded ABC/no credit. Formerly PE 148. (2 units)

149. Independent Activity Project

Activity project designed to satisfy individual needs of students who cannot meet requirements of a regular activity class due to a medical, physical or other conflict; under the supervision of a faculty member. Graded ABC/no credit. Formerly PE 149. Prerequisite: consent of department chair. (GE=E.3) (2 units)

150. Dance Activities

Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Graded ABC/no credit. Formerly KINE 141 and PE 141. (GE=E.3)

- A. Aerobic (2 units)
- B. Low-Impact Aerobic (2)
- C. Step Aerobic (2)
- D. Ballet (2 units)
- E. Ethnic (2 units)
- F. Jazz (2 units)
- G. Modern (2 units)
- H. Tap (2 units)
- I. Country and Western (2)
- J. Sampler (2 units)
- K. Social (2 units)

160. Women's Intercollegiate Activities

Enrollment limited to members of intercollegiate sports teams. The intercollegiate activity units may not be substituted for physical education activity units in the undergraduate degree requirements. Volleyball, cross country, basketball, tennis, softball, water polo, soccer. Graded ABC/no credit. Formerly PE 160. (2 units)

190. Men's Intercollegiate Activities

Enrollment limited to members of intercollegiate sports teams. The intercollegiate activity units may not be substituted for physical education activity units in the undergraduate degree requirements. Soccer, basketball, golf, baseball. Graded ABC/no credit. Formerly PE 190. (2 units)

200. First Aid

The emergency care and treatment of illnesses and injuries including training in cardiopulmonary resuscitation (CPR). May lead to certification in Standard First Aid from the American Red Cross and/or CPR from the American Heart Association. Formerly PE 200. (2 units)

203. Introduction to Recreation

Orientation to recreation as a profession. Meaning, content, history, philosophy and scope of the field of recreation. Formerly PE 203. (4 units)

205. Foundations for Lifetime Fitness and Wellness

Introduction and discussion of the interrelationship of physical fitness and wellness. Benefits associated with physical activity, and how exercise on a regular basis contributes to the development of healthier lifestyles. Topics include: components of physical fitness (including assessment techniques), weight control, nutrition, stress management, health benefits of active lifestyles, and exercise guidelines for each area of fitness. Formerly PE 205. (GE=E.1) (2 units)

210. Introduction to Kinesiology

- A. Provides an overview of the discipline of kinesiology. Formerly PE 210A. Two hours lecture. (2 units)
- B. Provides an overview of adapted physical education. Formerly PE 210B. Two hours lecture. (2 units)

237. Water Safety Instruction

Materials and methods in organizing school, community and camp aquatic programs. Supervised practice in teaching aquatics. Meets standards for Red Cross certification. One hour lecture and three hours laboratory. Formerly PE 237 and 362. Prerequisite: KINE 137A or 137C or equivalent. (2 units)

240. Exercise Science Software

Examination and analysis of computer software utilized in exercise science, physical education and athletics. Content is consistent with skills necessary to prepare students as a health fitness instructor by the American College of Sports Medicine. Four hours activity. (2 units)

254. Field Experience

Supervised off-campus observational field experience in a teaching, fitness or recreation setting. One hour lecture and three hours of observation. Formerly PE 254. Prerequisite: one course from either KINE 261 or 263 sequence. (2 units)

261. Professional Activity Preparation in Individual and Dual Sports

The development of techniques and skills of individual/dual activities. Formerly PE 261. Prerequisite: one of the following: KINE 210A, 210B, or 310.

- A. Archery (2 units)
- B. Badminton (2 units)
- C. Dance (2 units)
- D. Fitness and Conditioning (2 units)
- E. Golf (2 units)
- F. Gymnastics (2 units)
- G. Racquetball (2 units)
- H. Swimming (2 units)
- J. Tennis (2 units)
- K. Track and Field (2 units)

263. Professional Activity Preparation of Team Sports

The development of techniques and skills of team activity. Formerly PE 263. Prerequisite: one of the following: KINE 210A, 210B, or 310.

- A. Basketball (2 units)

- B. Football (Flag) (2 units)
- C. Soccer (2 units)
- D. Softball (2 units)
- E. Volleyball (2 units)

267. Sports Officiating

An introduction to contest rules and mechanics of officiating for selected sports. Personal and philosophical bases for successful officiating are examined. Formerly PE 267. (2 units)

271. Recreation Leadership

Organization, supervision and administration of recreation programs and practical experience in recreation situations which provide the opportunity to develop leadership skills. Formerly PE 271. (4 units)

277. Recreation Programming

Materials and methods used in planning and conducting programs in recreation, such as social recreation, dramatics, art and sports. Formerly PE 277. Prerequisite: KINE 203 or 271. (4 units)

Upper Division

305. Prevention and Treatment of Sports Injuries

Theories and methods in the prevention, assessment, treatment and rehabilitation of sports injuries. Four hours lecture, laboratory experiences included. Formerly PE 280 and KINE 280. Materials fee required. Prerequisites: BIOL 223 and 224. (4 units)

310. History and Philosophy of Physical Activity

The evolution of sport and physical activity including historical and philosophical influences from ancient societies through the present. Formerly PE 310. Four hours lecture. (4 units)

323. Sociology of Physical Activity

Sociocultural aspects of sport and physical activity, including socialization process, social issues, reflection of social values and interaction with other social institutions. Formerly PE 321 and 323. Four hours lecture. (4 units)

324. Psychology of Physical Activity

A behavioral science perspective is used to examine sport and physical activity, including motivation, personality, anxiety, aggression, group cohesion. Includes theoretical foundations and practical application. Four hours lecture. Formerly PE 322 and 324. (4 units)

325. Motor Development Across the Lifespan

Concepts of growth and motor development of human beings throughout the lifespan. Major emphasis on the period of birth through adolescence. Two hours lecture with demonstrations. Laboratory experiences included. Prerequisite: BIOL 223. (2 units)

330. Physical Education for the Exceptional Individual

Investigation and analysis of disabilities encountered in the environment of physical education. Formerly PE 330. Prerequisites: KINE 210B and 410, or consent of department. (4 units)

331. Topics in Adapted Physical Education

Materials, techniques of assessment, methods of instruction and activities utilized in physical education for individuals with disabilities. Formerly PE 331. Prerequisite: KINE 330.

- A. Adapted aquatics (American Red Cross certification) (2 units)
- B. Physically handicapped (2 units)
- C. Learning handicapped (2 units)
- D. Communicatively handicapped (2 units)
- E. Severely handicapped (2 units)

343. Methods and Techniques of Coaching

Strategies, practice organization and planning for coaching of athletic teams. The purpose of school athletics, public relations responsibilities and personal qualities for success are examined. Formerly PE 343. (4 units)

352. Movement for Children

The study and analysis of movement for children. Includes the structure of movement, the integration of movement activities and the human development aspects of movement. Formerly PE 352. (4 units)

360. Physical Activity and Aging

Examination of the neurological and physiological changes associated with the aging process from post-adolescence through the senior years. Includes information concerning special planning, implementing and evaluation of adult oriented physical activity programs. Content is consistent with skills necessary to prepare students as a health fitness instructor by the American College of Sports Medicine. Two hours lecture. Recommended: BIOL 223. (2 units)

365. Outdoor Education and Camp Leadership

Knowledge, concepts and techniques for the administration and organization of camps and for working with people in the out-of-doors. Includes a supervised leadership experience and field trips to observe camp facilities, programs and resources. Formerly PE 365. (4 units)

370. Measurement and Evaluation in Kinesiology

Selection, application and interpretation of evaluative measures used in pedagogical and in exercise science settings. Four hours lecture. Formerly PE 370. Prerequisites: KINE 210A and MATH 110. (4 units)

380. Advanced Assessment and Rehabilitation of Athletic Injuries

Study of specific techniques of injury evaluation and assessment. Development and application of rehabilitation programs. Four hours lecture plus eight hours of arranged field-work per week. Formerly PE 380. Prerequisite: KINE 305. (4 units)

382. Nutrition for Health, Fitness and Sports

Addresses nutrition needs of active people and athletes. Topics include, but not limited to macro and micro nutrient requirements for fitness and sport, popular nutrition supplements and ergogenic aids. (Also offered as HSCI 382. Students may not receive credit for both.) Four hours lecture. Recommended: BIOL 224. (4 units)

410. Motor Control and Skill Learning

A psychological and neurological level of analysis of the factors that influence the acquisition and retention of gross motor skills with emphasis on the role of the sensory and motor control reflexes. Content is consistent with skills necessary to prepare students as health fitness instructors by the American College of Sports Medicine. Four hours lecture. Formerly KINE 320 and PE 320. (4 units)

454. Field Work in Physical Education or Recreation II

A supervised leadership experience in a physical education, recreational or intramural setting. Formerly PE 454. Prerequisites: KINE 254 and 472. (3 units)

471. Exercise Science Program Management

Management and supervisory philosophies involved in administering fitness facilities. Includes scheduling, budgeting, public relations, legal liability, planning, supervision of personnel, and evaluation of programs and personnel. Formerly PE 470. Four hours lecture. Prerequisites: KINE 210A and 261D. (4 units)

472. Program Design in Physical Education

Basic skills necessary to design, implement and evaluate effective physical education programs in public schools. Formerly KINE 470. Four hours lecture. (4 units)

473. Instructional Strategies in Physical Education

Prepares future physical educators with skills to translate goals and objectives in the teaching-learning process into effective teaching behaviors. Four hours lecture. Formerly KINE 355 and PE 355. (4 units)

480. Biomechanics

Application of physical laws to human performance; analytical and quantitative processes emphasized. Four hours lecture and three hours laboratory. Formerly PE 480. Prerequisites: MATH 110. Recommended: MATH 120 and PHYS 100. (5 units)

481. Exercise Physiology

Effects of physical activity on the physiological systems of the human body. Four hours lecture and three hours laboratory. Formerly PE 481. Prerequisites: BIOL 223 and 224. (5 units)

482. Contemporary Fitness Programs

Analysis of contemporary methods and technologies used in fitness programs. Critiques made in light of research findings and practical applications. Formerly PE 420 and 482. (4 units)

483. Exercise Prescription

Development of assessment skills, exercise prescription modules and training schedules for normal, high level fitness and special populations. Content is consistent with skills necessary to prepare students as a health fitness instructor by the American College of Sports Medicine. Three hours lecture and three hours laboratory. Materials fee required. Formerly PE 430 and 483. Prerequisites: KINE 481 and 486. (4 units)

485. EKG Interpretation

Introduction to electrocardiography. Basic concepts of EKG interpretation including electro-physiology, arrhythmia, electrode placement for both resting and graded exercise testing.

Content is consistent with skills necessary to prepare students as a health fitness instructor by the American College of Sports Medicine. Materials fee required. Four hours activity. Laboratory included. Prerequisite: KINE 481. (2 units)

486. Instrumentation in Exercise Science

Prepares students to calibrate and operate basic physiological equipment used in fitness assessment. Content is consistent with skills necessary to prepare students as a health fitness instructor by the American College of Sports Medicine. One hour lecture and three hours laboratory. Materials fee required. Prerequisite: KINE 481. (2 units)

488. Legal Issues in Exercise Science

The legal system as applied to sport and exercise. Legal liabilities, risk management, defenses against negligence in sport/exercise litigation, and case law relating to selected topics such as facilities, equipment, client injuries. Two hours lecture. Prerequisite: KINE 471. (2 units)

490. Senior Seminar in Kinesiology

Selected topics significant to the discipline of kinesiology. Formerly PE 490. Two hours seminar. Prerequisite: senior standing or consent of instructor. (2 units)

493. Internship

Directed clinical experience at selected cooperating agencies. Experience in exercise testing, monitoring, and programming for selected populations to include but not limited to: healthy individuals; cardiac rehabilitation patients and athletes. Content is consistent with skills necessary to prepare students as a health fitness instructor by the American College of Sports Medicine. Requires six hours per week of approved supervised experience. May be repeated for credit with consent of instructor. A total of six units may be applied toward the degree. Prerequisite: KINE 481, 483, 486, 488 and senior status. (2 units)

499. Methods and Materials in the Teaching of Physical Education

Individualized instruction in the methods and materials for the teaching of physical education. Formerly PE 499. Prerequisites: ESEC (330 or) 332, senior or graduate standing and admission to the Single Subject Credential Program or consent of the College of Natural Sciences. (4 units)

580. Exercise, Energy and Human Performance

Energy demands and dietary adjustments required in physical performance with emphasis on high intensity activities. Consideration of climactic factors, ergogenic aids and synthetic substance ingestion. Formerly PE 412 and 580. Prerequisite: KINE 481. (4 units)

595. Independent Study

Experimental effort, field or library research conducted under the direction of a faculty member. A total of six units may apply toward graduation. Formerly PE 595. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

Graduate level courses can be found on Page 477.

LATIN AMERICAN STUDIES

College of Arts and Letters

University Hall, UH-201.39

880-5853

Minor

Latin American Studies

DIRECTOR: Rafael Correa

MINOR IN LATIN AMERICAN STUDIES

Requirements (32 units)

Requirements for a minor in Latin American Studies:

Admission to the Program

1. Students must meet general university admission requirements;
2. Students should discuss this minor with their academic advisors. All majors are eligible to participate in this minor.

Requirements for Graduation

1. Minors can only be granted for the same term in which students graduate;
2. CSUSB will not consider for transfer credit coursework from an institution that will not accept that coursework in its own degree program.

Requirements for the Minor:

1. International experience component (4-8 units or equivalent).

Students are required to have an international experience or equivalent as part of this minor. This experience can be gained through approved international language programs, internships, research or study abroad options (including CSU International Programs). CSUSB will assist in organizing and providing information for funding experience of this type. Credit may be granted for significant international experiences completed prior to starting to take courses toward this minor. Other options will be considered.

Core requirements (8 units)

1. Four units chosen from:
 - GEOG 321. Area Study: Latin America (4)
 - HIST 470. Modern Latin America (4)
 - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
2. Four units of foreign language study chosen from:
 - FLAN 150D. Intermediate Language Study: Portuguese (4)
 - SPAN 150. Intermediate Spanish (4)

Integrative international seminar (4 unit)

1. Four units chosen from
 - HUM 500A. Current Ideas and Issues in Latin America (4)
 - HUM 500B. Current Ideas and Issues in Latin America (4)

Electives (12-16 units)

1. Twelve to 16 units, not previously taken, with at least one course each from groups A, B, and C:

A. Social Sciences

- ANTH 354. Cultures of Mexico and Central America (4)
- ANTH 356. Cultures of South America (4)
- ECON 590. Seminar in Economics: Political Economy of Latin America (4)
- GEOG 321. Area Study: Latin America (4)
- HIST 390. History of Modern Mexico (4)
- HIST 465. Modern Central America (4)
- HIST 466. Foreign Relations of Latin America (4)
- HIST 469. Colonial Latin America (4)
- HIST 470. Modern Latin America (4)
- PSCI 352C. Minority Politics: Latino Politics (4)
- SOC 342. The Chicano Family (4)
- SOC 442. Chicano Social Stratification (4)
- SOC 590. Seminar in Sociology: Life and Society in the U.S.-Mexico Borderlands (4)
- SOC 590. Seminar in Sociology: Indian Nations and Native Americans (4)
- SSCI 304. Contemporary Latin America (4)

B. Arts, Languages, Literature and Education

- ART 328. Mexican Art (4)
- ART 329. Chicano Art (4)
- EELB 512. Spanish Children's Literature for the Bilingual Classroom (4)
- ENG 319. Studies in Literary Diversity (4)
- ENG 323. Chicano Literature (4)
- HUM 335. The Origin and Contemporary Role of Latino Culture (4)
- HUM 460. Cultural Studies (4)
- MUS 351. Latin American Music (4)
- SPAN 314. Advanced Conversation (4)
- SPAN 316A. Spanish for the Professions: Communication (4)
- SPAN 316B. Spanish for the Professions: Health Science (4)
- SPAN 316C. Spanish for the Professions: Education (4)
- SPAN 316D. Spanish for the Professions: Business (4)
- SPAN 316E. Spanish for the Professions: Law Enforcement (4)
- SPAN 400. Masterpieces in Spanish and Spanish American Literature (4)
- SPAN 435. Chicano Literature in Spanish (4)
- SPAN 440. Mexican Literature (4)
- SPAN 514. Seminar in Hispanic Language, Literature or Film: Border Literature, Film and Oral Traditions (4)

Note: Spanish courses at the 300-level and above are taught in Spanish.

- C. Business, Management, Communication, Health and Nutrition
- COMM 471. International Communication (4)
 - COMM 587. Topics in Mass Communication: Media and Social Change in Latin America (4)
 - COMM 593D. Communication Approaches to Area Studies: Latin America (4)
 - HSCI 344. International Perspectives on Nutrition (4)
 - HSCI 359. International Perspectives on Health (4)
 - HSCI 385. Cultural Aspects of Food: Traditions and Trends (4)
 - MGMT 324. International Environmental Management (4)
 - MGMT 405. International Management (4)
 - MGMT 407. Comparative Management Systems of the Americas (4)
 - MKTG 470. International Marketing Management (4)

Note: In the electives categories, those courses not specifying a topic, are applicable only when the student's project/research focuses on Latin America.

Foreign Language Requirement for Spanish or Portuguese:
The following rules apply to challenging a language course for credit in this minor:

1. Only courses at the 150-level or higher may be challenged.
2. Students whose language of instruction in secondary school was Spanish or Portuguese may satisfy this category by submitting official academic transcripts showing that either language was, indeed, the medium of instruction in the school from which they graduated.
3. Providing documentation of significant foreign language experience such as the successful completion of two years of Peace Corps experience in a Spanish- or Portuguese-speaking country.

LIBERAL STUDIES

Liberal Studies Office

Chaparral Hall, Room 137
880-5857

Liberal Studies Peer Advising Center (PALS)

Chaparral Hall, Room 137
880-5482

Bachelor of Arts

Liberal Studies

Liberal Studies - Accelerated Track

Liberal Studies - Spanish Studies Track

Liberal Studies - Non Teaching Track

American Studies (Track II)

(American Studies requirements can be found on [Page 91.](#))

Human Development, Child Development - Track II:

Multiple Subjects Equivalency

(Human Development requirements can be found on [Page 228.](#))

COORDINATOR: Leo Connolly

The Bachelor of Arts in Liberal Studies is a multidisciplinary degree program designed for students whose needs or interests require a more broadly based liberal arts curriculum than is possible through existing disciplines. (By completing the liberal studies program, students also fulfill the general education requirements of the university.) While the program is configured for students who plan to become elementary school teachers, it is open to everyone.

The Liberal Studies program has been approved by the California Commission for Teacher Credentialing; students who complete the program for elementary school teachers are granted a waiver of the M.S.A.T. examination requirement for the multiple subject teaching credential.

The Liberal Studies program also contains a track for students who desire a Spanish Studies emphasis. Information on this track is available on [Page 260](#).

The non-teaching track is for students who do not plan to seek a teaching credential.

Track II of the American Studies major also fulfills the requirements of the Liberal Studies major. Information on this track is available on [Page 91](#).

Human Development, Child Development - Track II also fulfills the requirements of the Liberal Studies major as well as a waiver of the M.S.A.T. Information on this track is available on [Page 228](#).

DEPARTMENTAL HONORS

The Liberal Studies student will be eligible for departmental honors upon verification of the following three requirements:

1. Earned a 3.5 grade point average in the major;
2. Completed at least 45 units of Liberal Studies courses at this university;
3. Successful completion of oral and written honors evaluations.

B.A. IN LIBERAL STUDIES - GENERAL TRACK

Requirements (157 units)

Total units required for graduation: 180

BASIC PROGRAM (139 units)

- A. Language Arts (28 units)
- B. Humanities and the Arts (33 units)
- C. Mathematics and Natural Sciences (36 units)
- D. Social and Behavioral Sciences (32 units)
- E. Lifelong Understanding (10 units)
- F. Multicultural/Gender Category

FIELD OF CONCENTRATION (18 units)

- G. Concentrations

LIBERAL STUDIES TOTAL (157 units)

All Liberal Studies students should give special attention to the following points before they begin their course work:

1. Since the Liberal Studies program contains a variety of choices, students should seek advisement as early as possible at the Liberal Studies Peer Advising Center (PALS), CH-137;
2. By completing the Liberal Studies program, students also can fulfill the general education requirements of the university;
3. A course only can be counted once within the Liberal Studies program; for example, a course taken in the concentration, category G, cannot be taken in a breadth area, categories A through D;
4. The Liberal Studies, General Track program is designed especially for students who wish to enter elementary school teaching;
5. With advisement and a careful selection of courses, students can also:
 - A. Complete a second major or minor in certain fields;
 - B. Complete the requirements leading to a multiple subject teaching credential. See "Basic Teaching Credentials" in this catalog, [Page 154](#);
6. All Liberal Studies students must maintain a grade point average of at least 2.0 ("C"). Students who plan to seek their multiple subject teaching credential at CSUSB should achieve a minimum GPA of at least 2.7. In addition, all Liberal Studies students who plan to fulfill the multiple subjects teaching credential at CSUSB will be required to take a written assessment, to be accomplished during the senior year or at some point during the credentialing process. Further information concerning the Liberal Studies subject matter assessment is available in PALS, the Liberal Studies Advising Center (CH-137).
The basic program in liberal studies is divided into four breadth areas, categories A through D. Within categories A through E, the course work is subdivided further into courses in required sections and electives. Sections throughout the basic program that also meet general education requirements are marked "G.E."
Note: No one course may be counted in more than one category.

Requirements for the B.A. in Liberal Studies - General Track:

A. Language Arts Breadth Area (28 units)

1. Written Communication (G.E.):
ENG 101. Freshman Composition (4)
2. Upper-division Writing Requirement (G.E.)
Four units chosen from:
EDUC 306. Expository Writing for Education (4)
ENG 306. Expository Writing (4)
HUM 306. Expository Writing for the Humanities (4)
MGMT 306. Expository Writing for Administration (4)
NSCI 306. Expository Writing for the Natural Sciences (4)
SSCI 306. Expository Writing for the Social Sciences (4)

Note: This requirement also can be met by passing a proficiency examination. Students who pass the examination may use the four units as free electives.

3. Oral Communication (G.E.)
COMM 120. Oral Communication (4)
4. Literature (G.E.)
Four units chosen from:
ENG 110. World Literature I (4)
ENG 111. World Literature II (4)
ENG 160. World Drama (4)
ENG 170. Studies in Literature (4)
TA 160. World Drama (4)
TA 212. Oral Interpretation of Literature (4)
5. Development of Language
ENG 311. The English Language (4)
6. Analysis of Literature
Four units chosen from:
ENG 301. Analysis of Poetry (4)
ENG 302. Analysis of Drama (4)
ENG 303. Analysis of Prose Fiction (4)
ENG 304. Analysis of Nonfiction Prose (4)
TA 302. Analysis of Drama (4)

7. Upper-division elective

Note: A course counted under categories A5 or A6 cannot be counted under category A7.

- Four units chosen from:
- ENG 301. Analysis of Poetry (4)
 - ENG 302. Analysis of Drama (4)
 - ENG 303. Analysis of Prose Fiction (4)
 - ENG 304. Analysis of Nonfiction Prose (4)
 - ENG 309. Literature in the Classroom (4)
 - ENG 311. The English Language (4)
 - ENG 314. American Indian Literature (4)
 - ENG 317. Introduction to Creative Writing: Poetry (4)
 - ENG 318. Introduction to Creative Writing: Fiction (4)
 - ENG 319. Studies in Literary Diversity (4)
 - ENG 320. Children's Literature (4)
 - ENG 322. Studies in Literary Themes, Genres, or Authors (4)
 - ENG 323. Chicano Literature (4)
 - ENG 327. Literature for Adolescents and Young Adults (4)

- ENG 330. American Literature I (4)
- ENG 331. American Literature II (4)
- ENG 332. American Literature III (4)
- ENG 333. Myth and Epic (4)
- ENG 335. Studies in the Novel (4)
- ENG 336. Women Writers (4)
- ENG 339. African American Literature (4)
- ENG 401. English Literature of the Middle Ages (4)
- ENG 403. English Literature of the Renaissance (4)
- ENG 406. Seventeenth Century Literature (4)
- ENG 409. English Literature of the Restoration and Eighteenth Century (4)
- ENG 412. Romantic Prose and Poetry (4)
- ENG 415. Victorian Literature (4)
- ENG 442. Modern Poetry (4)
- ENG 446. Modern Fiction (4)
- ENG 450. Classical Drama (4)
- ENG 455. Modern Drama I (4)
- ENG 456. Modern Drama II (4)
- ENG 475. Shakespeare I (4)
- ENG 476. Shakespeare II (4)
- ENG 513. Advanced Creative Writing (4)
- ENG 515. Senior Seminar in Literature (4)
- ENG 565. Special Studies in Writing (2)
- ENG 566. Special Studies in Writing (4)
- HUM 312. Theories of Language Acquisition and Learning (4)
- TA 302. Analysis of Drama (4)
- TA 450. Classical Drama (4)
- TA 455. Modern Drama I (4)
- TA 456. Modern Drama II (4)
- TA 475. Shakespeare I (4)
- TA 476. Shakespeare II (4)

B. Humanities and the Arts Breadth Area (33 units)

1. Critical Thinking (G.E.)
Four units chosen from:
COMM 180. Critical Thinking Through Argumentation (4)
MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
PHIL 105. Critical Thinking Through Argument Analysis (4)
PHIL 200. Critical Thinking Through Symbolic Logic (4)
PSYC 105. Critical Thinking Through Problems Analysis (4)
SOC 180. Critical Thinking About Social Problems (4)
2. Philosophy (G.E.)
Four units chosen from:
PHIL 190. Introduction to Philosophical Issues (4)
PHIL 191. Introduction to Ethics (4)
PHIL 192. Introduction to Philosophy of Religion (4)
PHIL 193. Introduction to Eastern Philosophy (4)
PHIL 194. Introduction to Knowledge and Reality (4)
3. Foreign Language (G.E.)
Four units chosen from:
FLAN 150. Intermediate Language Study (4)
FREN 150. Intermediate French (4)
FREN 200. Culture and Communication (4)

- FREN 201. Conversation and Composition I (4)
- FREN 202. Conversation and Composition II (4)
- GER 150. Intermediate German (4)
- GER 212. Composition (4)
- GER 214. Conversation (4)
- GER 216. Introduction to Literary Texts (4)
- JAPN 150. Intermediate Japanese (4)
- MAND 150. Intermediate Mandarin (4)
- SPAN 150. Intermediate Spanish (4)
- SPAN 155. Intermediate Spanish for Spanish Speakers (4)
- SPAN 212. Composition (4)
- SPAN 213. Composition for Spanish Speakers (4)
- SPAN 214. Conversation (4)

Note: Students pursuing the B.A. in Liberal Studies cannot include in category B3 the following courses:

- FREN 290. French Literature in English
- GER 290. German Literature in English
- SPAN 290. Spanish and Latin American Literature in English

4. Arts

1. Four units in the arts (G.E.) chosen from:
 - ART 200. Studies in Art (4)
 - MUS 180. Studies in Music (4)
 - TA 260. Introduction to Theatre (4)
2. ART 395. Art in the Classroom (3)
3. MUS 531. Musical Development for the Elementary Teacher (3)
4. Three units chosen from:
 - TA 385. Acting for Non-Majors (4)
 - TA 481. Creative Drama in the Classroom (3)
 - TA 483. Children's Theatre (4)
 - TA 484. Readers Theatre in the Classroom (4)
 - TA 579. Theatre in the Elementary Classroom (4)

Note: The extra unit from TA 385, 483, 484 or 579 may count towards free electives.

5. Field Experience

- EELB 275. Internship in Service Learning (1-5) for at total of (4)

Note: Internship must be performed in a school setting.

6. Integrative Capstone in the Humanities (G.E.)

- Four units chosen from:
- HUM 319. Myth, Metaphor and Symbol (4)
 - HUM 325. Perspectives on Gender (meets the requirement in category F1) (4)
 - HUM 330. Arts and Ideas (4)
 - HUM 335. The Origin and Contemporary Role of Latino Culture (meets the requirement in category F1) (4)
 - HUM 340. Interpretation and Values (4)
 - HUM 344. Ideas in American Culture (4)
 - HUM 350. The Cultures of American Childhood (4) (meets the requirement in category F1) (4)
 - HUM 370. African Heritage in the Arts (meets the requirement in category F1) (4)
 - HUM 380. Comparative Studies in the Arts: East and West (meets the requirement in category F1) (4)

- HUM 385. A Cultural History of Fashion (4)

Note: Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
- NSCI 325. Perspectives on Gender
- SSCI 325. Perspectives on Gender

C. Mathematics and Natural Sciences Breadth Area (36 units)

1. Mathematics (G.E.)

- Four units chosen from:
- MATH 110. College Algebra (4)
 - MATH 115. The Ideas of Mathematics (4)
 - MATH 120. Pre-Calculus Mathematics (4)
 - MATH 192. Methods of Calculus (4)
 - MATH 211. Basic Concepts of Calculus (4)

2. Mathematical Applications

- Four units chosen from:
- MATH 211. Basic Concepts of Calculus (4)
 - MATH 212. Calculus II (4)
 - MATH 302. Problem Solving in Mathematics (4)

Note: MATH 211. Basic Concepts of Calculus may not be taken for credit by students who have received credit for this course in category C1.

3. Life Science (G.E.)

- Five units chosen from:
- BIOL 100. Topics in Biology (5)
 - BIOL 202. Biology of Populations (5)
 - HSCI 120. Health and Society: An Ecological Approach (5)

4. Physical and Earth Sciences

Nine units chosen from one of the following three-course sequences (1, 2 or 3) to include one course in each of the physical sciences (physics and chemistry) and earth/space sciences (geology, geography and astronomy):

1. a. One of the following:
 - CHEM 100. Chemistry in the Modern World (5)
 - CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
 - CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- b. GEOL 304. Geology in the Classroom (2)
- c. PHYS 304. Physics in the Classroom (2)
2. a. One of the following:
 - PHYS 100. Physics in the Modern World (5)
 - PHYS 121. Basic Concepts of Physics (5)
 - PHYS 221. General Physics I (5)
- b. CHEM 304. Chemistry in the Classroom (2)
- c. GEOL 304. Geology in the Classroom (2)
3. a. One of the following:
 - GEOG 103. Physical Geography (5)
 - GEOL 101. Introductory Geology (5)
 - PHYS 103. Descriptive Astronomy (5)
- b. CHEM 304. Chemistry in the Classroom (2)
- c. PHYS 304. Physics in the Classroom (2)

5. Special Topics in Science and Technology (G.E.)

- Two units chosen from:
- BIOL 216. Genetics and Society (2)
 - BIOL 217. Biology of Sexually Transmitted Diseases (2)

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- CHEM 105. Chemicals in Our Environment (2)
CSCI 124. Exploring the Information Superhighway (2)
GEOL 210. Earthquakes: Science and Public Policy (2)
6. Mathematics and Natural Sciences Electives
1. CSCI 127. Introduction to Computer Technology for Educators (4)
2. MATH 301. Basic Mathematics for Educators (4)
7. Integrative Capstone in the Natural Sciences (G.E.)
Four units chosen from:
NSCI 300. Science and Technology (4)
NSCI 310. The Environment and Human Survival (4)
NSCI 314. Life in the Cosmos (4)
NSCI 320. Energy (4)
NSCI 325. Perspectives on Gender (meets the requirement in category F1) (4)
NSCI 351. Health and Human Ecology (4)
NSCI 360. Legacy of Life (4)
- Note:** Students may receive credit for only one of the following courses:
HUM 325. Perspectives on Gender
NSCI 325. Perspectives on Gender
SSCI 325. Perspectives on Gender
- D. Social and Behavioral Sciences Breadth Area (32 units)
1. American History and Civilization (G.E.)
Four units chosen from:
HIST 146. American Civilization (4)
HIST 200. United States History to 1877 (4)
HIST 201. United States History, 1877 to the Present (4)
2. American Institutions (G.E.)
PSCI 203. American Government (4)
Note: The American History, Constitution, State and Local Government requirement can be met by taking PSCI 203 and either HIST 146, 200, or 201. However, even if this requirement is met by examination, students must still take eight units of lower-division course work chosen from categories D3 and D4 and counted in categories D1 and D2.
3. World Cultures (G.E.)
Four units chosen from:
ANTH 140. World Civilizations I, the Rise of Civilization (4)
HIST 140. World Civilizations I, the Rise of Civilization (4)
HIST 142. World Civilizations II, the Civilizations of the East and the West (4)
HIST 144. World Civilizations III, the Expansion of Europe (4)
SSCI 165. Regions and Peoples of the World (4)
4. Discipline Perspectives (G.E.)
Four units chosen from:
ANTH 100. Introduction to Anthropology: Human Evolution (4)
ANTH 102. Introduction to Anthropology: Culture and Society (4)
ECON 104. Economics of Social Issues (4)
ES 100. Ethnicity and Race in America (4)
GEOG 100. Introduction to Human Geography (4)

- PSCI 100. Introduction to Political Science (4)
PSYC 100. Introduction to Psychology (4)
SOC 100. The Study of Society (4)
WSTD 100. Introduction to Women's Studies (4)
5. Social Science Electives
1. PSYC 320. Psychology of Middle Childhood (4)
2. Eight units, at least four units must be upper-division, chosen from: anthropology, criminal justice, economics, geography, history, political science, psychology, social sciences, sociology and women's studies.
6. Integrative Capstone in the Social and Behavioral Sciences (G.E.)
Four units chosen from:
SSCI 300. Nonwestern World (4)
SSCI 304. Contemporary Latin America (4)
SSCI 315. Cultural Adaptation: The Quest for Survival (4)
SSCI 316. Race and Racism (meets the requirement in category F1) (4)
SSCI 320. Understanding Capitalism (4)
SSCI 321. Urbanization and the Urban Environment (4)
SSCI 325. Perspectives on Gender (meets the requirement in category F1) (4)
SSCI 343. Understanding Socialism (4)
SSCI 345. Religious Expression in America (4)
SSCI 350. Roots of Modern Racism in America (4) (meets the requirement in Category F1)
- Note:** Students may receive credit for only one of the following courses:
HUM 325. Perspectives on Gender
NSCI 325. Perspectives on Gender
SSCI 325. Perspectives on Gender
- E. Lifelong Understanding (10 units)
1. The Whole Person—physical and physiological issues (G.E.)
Two units chosen from:
KINE 205. Foundations for Lifetime Fitness and Wellness (2)
NSCI 110. Health and Self Care (2)
2. The Whole Person—social and psychological issues (G.E.)
Two units chosen from:
PHIL 101. Moral Choices in Life (2)
PSYC 115. Personal and Social Adjustment (2)
SOC 110. Choices in the Life Course (2)
3. Physical Education (G.E.)
1. Two units chosen from courses listed below. Students are encouraged to elect a dance course, KINE 150:
KINE 101. Individual and Dual Activities (2)
KINE 114. Physical Fitness and Conditioning Activities (2)
KINE 120. Combative and Martial Arts Activities (2)
KINE 121. Team Activities (2)
KINE 137. Aquatic Activities (2)
KINE 147. A Fitness Odyssey (2)
KINE 149. Independent Activity Project (2)
KINE 150. Dance Activities (2)
2. Four units chosen from:
DAN 481. Creative Dance in the Classroom (4)
KINE 352. Movement for Children (4)

- F. Multicultural/Gender Category
All students must take one upper-division course designated as meeting this requirement, chosen from groups 1 or 2 below:
- An appropriate Integrative capstone course in one of the following categories: B6, C7, or D6.
 - HUM 325. Perspectives on Gender (4)
 - HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 - HUM 350. The Cultures of American Childhood (4)
 - HUM 370. African Heritage in the Arts (4)
 - HUM 380. Comparative Studies in the Arts: East and West (4)
 - NSCI 325. Perspectives on Gender (4)
 - SSCI 316. Race and Racism (4)
 - SSCI 325. Perspectives on Gender (4)
 - SSCI 350. Roots of Modern Racism in America (4)
 - Upper-division general education elective courses that satisfy the Multicultural/Gender requirement:
 - ANTH 325. Human Variation and the Concept of Race (4)
 - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
 - COMM 304. Intercultural Communication (4)
 - COMM 401. Gender, Race and Media (4)
 - CJUS 451. Women and Crime (4)
 - ECON 352. Political Economy of Poverty and Discrimination (4)
 - ENG 314. American Indian Literature (4)
 - HUM 460. Cultural Studies (4)
 - MUS 308. Women in Music (4)
 - MUS 350. Music of World Cultures (4)
 - PHIL 364. Philosophy of Race and Gender (4)
 - PHIL 367. Philosophy and Sexual Politics (4)
 - PA 305. Organizations in Multicultural and Diverse Societies (4)
 - TA 462. African American Theatre and Drama (4)

- G. Concentrations (18 units)
Eighteen units of which only four units can be lower-division; however, exceptions can be made in art, mathematics, the sciences, and foreign languages at the discretion of the Liberal Studies Coordinator. Courses in the concentration must be selected in consultation with an advisor. They must be drawn from ONE of the following disciplines:
- Administration
 - Anthropology
 - Art
 - Art, Music and Theatre for Teachers
 - Biology
 - Chemistry
 - Communication Studies
 - Computer Science
 - Dance
 - Economics
 - English
 - Foreign Literature in Translation
 - French
 - Geography
 - Geology
 - German

- Health Science
- History
- Human Development
- Human Services
- Humanities
- Kinesiology (no activity courses)
- Latin American Studies
- Mathematics
- Music
- Philosophy
- Physics
- Political Science
- Public Administration
- Psychology
- Sociology
- Spanish
- TESL (Teaching English as a Second Language)
- Theatre Arts
- Women's Studies

B.A. IN LIBERAL STUDIES - ACCELERATED TRACK

Requirements (194 units)

Total units required for graduation: 194

This is a special accelerated program sequence leading to a combined B.A. in Liberal Studies and a Multiple Subjects Teaching Credential in four years of full-time study. This program is designed for highly qualified and motivated full-time students who wish to blend and integrate their subject matter preparation and pedagogy. This program is designed to operate as a cohort, students must take the sequence of courses as shown below. Applicants are screened for admission into a cohort.

An unusual feature of this Accelerated program is that each of the teaching methods courses will have a supervised student teaching field component and students will be placed at designated school sites which have been specially chosen to provide outstanding modeling of teaching practice, exceptional mentoring and supervision, and opportunities for students to apply what they have learned in the class directly in a school setting. Therefore, courses will be offered only during the day and students must be available to participate in the school placements during the normal hours an elementary school is open. In effect, the first quarter of the student teaching experience has been spread out and integrated into several courses early in the program. The last quarter of the fourth year will involve a full-time placement in student teaching. For application materials, contact the Coordinator of the Liberal Studies Program.

YEAR 1

Fall: 16 units

- Written Communication (G.E.)
 - ENG 101. Freshman Composition (4)
- Mathematics (G.E.)
 - Four units chosen from:
 - MATH 110. College Algebra (4)
 - MATH 115. The Ideas of Mathematics (4)
 - MATH 120. Pre-Calculus Mathematics (4)
 - MATH 192. Methods of Calculus (4)
 - MATH 211. Basic Concepts of Calculus (4)

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3. Critical Thinking (G.E.)
Four units chosen from:
COMM 180. Critical Thinking Through Argumentation (4)
MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
PHIL 105. Critical Thinking Through Argument Analysis (4)
PHIL 200. Critical Thinking Through Symbolic Logic (4)
PSYC 105. Critical Thinking Through Problems Analysis (4)
SOC 180. Critical Thinking About Social Problems (4)

4. Foreign Language (G.E.)
Four units chosen from:
FREN 150. Intermediate French (4)
GER 150. Intermediate German (4)
SPAN 150. Intermediate Spanish (4)

Winter: 17 units

1. Four units in the arts (G.E.) chosen from:
ART 200. Studies in Art (4)
MUS 180. Studies in Music (4)
TA 260. Introduction to Theatre (4)
2. Literature (G.E.)
Four units chosen from:
ENG 110. World Literature I (4)
ENG 111. World Literature II (4)
ENG 160. World Drama (4)
ENG 170. Studies in Literature (4)
TA 160. World Drama (4)
TA 212. Oral Interpretation of Literature (4)
3. American Institutions (G.E.)
HIST 146. American Civilization (4)
4. Life Sciences (G.E.)
BIOL 100. Topics in Biology (5)

Spring: 16 units

1. The Whole Person - Physical and Physiological Issues (G.E.)
Two units chosen from:
KINE 205. Foundations for Lifetime Fitness and Wellness (2)
NSCI 110. Health and Self Care (2)
2. Oral Communication (G.E.)
COMM 120. Oral Communication (4)
3. Philosophy (G.E.)
Four units chosen from:
PHIL 190. Introduction to Philosophical Issues (4)
PHIL 191. Introduction to Values, Technology and Society (4)
PHIL 192. Introduction to Philosophy of Religion (4)
PHIL 193. Introduction to Eastern Philosophy (4)
PHIL 194. Introduction to Knowledge and Reality (4)
4. EELB 130. Introduction to Careers in Education (2)
5. Special Topics in Science and Technology (GE)

- Two units chosen from:
BIOL 216. Genetics and Society (2)
BIOL 217. Biology of Sexually Transmitted Diseases (2)
CHEM 105. Chemicals in our Environment (2)
CSCI 121. Computer Technology and People (2)
CSCI 124. Exploring the Information Superhighway (2)
GEOL 210. Earthquakes: Science and Public Policy (2)
6. Physical education requirement (G.E.)
Two units chosen from:
KINE 101. Individual and Dual Activities (2)
KINE 114. Physical Fitness and Conditioning Activities (2)
KINE 120. Combative and Martial Activities Activities (2)
KINE 121. Team Activities (2)
KINE 137. Aquatic Activities (2)
KINE 146. Outing Skills Activities (2)
KINE 147. A Fitness Odyssey (2)
KINE 148. Leisure Sports (2)
KINE 149. Independent Activity Project (2)
KINE 150. Dance Activities (2)

YEAR II**Fall: 14 units**

1. ECON 104T. Economics of Social Issues (4)
2. EELB 220A. Social Studies Curriculum and Methods in the Elementary School: Emphasis on History and Political Science (2)
3. World Cultures (G.E.)
HIST 140T. World Civilizations I, the Rise of Civilization (4)
4. American Institutions (G.E.)
PSCI 203T. American Government (4)

Winter: 14 units

1. CSCI 127. Introduction to Computer Technology for Educators (4)
2. EELB 220B. Social Studies Curriculum and Methods in the Elementary School: Emphasis on Economics and Geography (2)
3. GEOG 100T. Introduction to Human Geography (4)
4. Selected lower-division course in field of concentration (4)

Spring: 11 units

1. Physical Sciences (G.E.)
Five units chosen from:
CHEM 100. Chemistry in the Modern World (5)
GEOL 101. Physical Geology (5)
PHYS 100. Physics in the Modern World (5)
2. The Whole Person - Social and Psychological Issues (G.E.)
Two units chosen from:
PHIL 101. Moral Choices in Life (2)
PSYC 115. Personal and Social Adjustment (2)
SOC 110. Choices in the Life Course (2)
3. HIST 142. World Civilizations II, the Civilizations of the East and West (4)

YEAR III

Fall: 18 units

1. EELB 310. Educational Psychology: Teaching and Learning in a Diverse Classroom (3)
2. EELB 311. Mathematics Curriculum and Methods in the Elementary School (4)
3. HD 315. The School Age Child (3)
4. MATH 301. Basic Mathematics for Educators (4)
5. Upper-division course in concentration (4)

Winter: 19 units

1. EELB 334. Language Development and Schooling (4)
2. Upper-division Writing Requirement (G.E.)
ENG 306. Expository Writing (4)
3. MATH 302. Problem Solving in Mathematics (4)
4. SSCI 309. Family, School and Culture (3)
5. Upper-division course in concentration (4)

Spring: 18 units

1. Two units chosen from:
(not from same subject area used to satisfy the Physical Science requirement)
CHEM 304. Chemistry in the Classroom (2)
GEOL 304. Geology in the Classroom (2)
PHYS 304. Physics in the Classroom (2)
2. Four units chosen from:
DAN 481. Creative Dance in the Classroom (4)
KINE 352. Movement for Children (4)
3. EELB 335. Reading/Language Arts Curriculum and Methods in the Elementary School (4)
4. ENG 311. The English Language (4)
5. Integrative Capstone in the Social and Behavioral Sciences (G.E.)
Four units chosen from:
SSCI 300. Nonwestern World (4)
SSCI 304. Contemporary Latin America (4)
SSCI 315. Cultural Adaptation: The Quest for Survival (4)

SSCI 316.* Race and Racism (4)
SSCI 320. Understanding Capitalism (4)
SSCI 321. Urbanization and the Urban Environment (4)

SSCI 325.* Perspectives on Gender (4)
SSCI 343. Understanding Socialism (4)
SSCI 345. Religious Expression in America (4)
SSCI 350.* Roots of Modern Racism in America (4)

YEAR IV

Fall: 18 units

1. EELB 429. Reading, Writing and Literary Analysis in the Elementary School (4)
2. Three units chosen from:
EELB 513. Motivation and Behavior Management in Children (3)

HD 513. Motivation and Behavior Management in Children (3)

3. Two units chosen from (may not include course taken previously):
CHEM 304. Chemistry in the Classroom (2)
GEOL 304. Geology in the Classroom (2)
PHYS 304. Physics in the Classroom (2)
4. EELB 414. Science Curriculum and Methods in the Elementary School (4)
5. Integrative Capstone in the Humanities (G.E.)
Four units chosen from:
HUM 319. Myth, Metaphor and Symbol (4)
HUM 325.* Perspectives on Gender (4)
HUM 330. Arts and Ideas (4)
HUM 335.* The Origin and Contemporary Role of Latino Culture (4)

HUM 340. Interpretation and Values (4)
HUM 344. Ideas in American Culture (4)
HUM 350.* The Cultures of American Childhood (4)
HUM 370.* African Heritage in the Arts (4)
HUM 380.* Comparative Studies in the Arts and Literature of Western and Non-Western Cultures (4)
6. HUM 497. Senior Assessment (1)

Winter: 18 units

1. Integrative Capstone in the Natural Sciences (G.E.)
Four units chosen from:
NSCI 300. Science and Technology (4)
NSCI 310. The Environment and Human Survival (4)

NSCI 314. Life in the Cosmos (4)
NSCI 320. Energy (4)
NSCI 325.* Perspectives on Gender (4)
NSCI 351. Health and Human Ecology (4)
NSCI 360. Legacy of Life (4)
2. Four units chosen from:
ENG 301. Analysis of Poetry (4)
ENG 302. Analysis of Drama (4)
ENG 303. Analysis of Prose Fiction (4)
ENG 304. Analysis of Nonfiction Prose (4)
ENG 309. Literature in the Classroom (4)
ENG 320. Children's Literature
3. ART 395. Art in the Classroom (4)
4. TA 481. Creative Drama in the Classroom (3)
5. Upper-division course in concentration (4)

Spring: 15 units

1. EELB 430. Supervised Student Teaching in the Blended Program (8)
2. MUS 531. Musical Development for the Elementary Teacher (3)
3. EELB 480. Capstone Seminar (2)
4. Upper-division course in the field of concentration (2)

* Meets the multicultural/gender requirement for GE. Students may receive credit for only one the following courses:

- HUM 325. Perspectives on Gender (4)
- NSCI 325. Perspectives on Gender (4)
- SSCI 325. Perspectives on Gender (4)

B.A. IN LIBERAL STUDIES - SPANISH STUDIES TRACK

Requirements (168 units)

Total units required for graduation: 180

A multiple-subject credential candidate can pursue a Spanish Studies track within the liberal studies major. This track is especially designed for those students interested in teaching English as a second language to children whose first language is Spanish. This track also prepares students to work in a bilingual/Spanish classroom setting.

BASIC PROGRAM (144 units)

- A. Language Arts (28 units)
- B. Humanities and the Arts (38 units)
- C. Mathematics and Natural Sciences (36 units)
- D. Social and Behavioral Sciences (32 units)
- E. Lifelong Understanding (10 units)
- F. Multicultural/Gender Category

FIELD OF CONCENTRATION (24 units)

- G. Spanish Studies (20 units)
- H. Field Experience (4 units)

LIBERAL STUDIES TOTAL (168 units)

All Liberal Studies students must maintain a grade point average of at least 2.0 ("C"). Students who plan to seek their multiple subject teaching credential at CSUSB should achieve a minimum GPA of at least 2.7. In addition, all Liberal Studies students who plan to fulfill the multiple subjects teaching credential at CSUSB will be required to take a written assessment, to be accomplished during the senior year or at some point during the credentialing process. Further information concerning the Liberal Studies subject matter assessment is available in PALS, the Liberal Studies Advising Center (CH-137).

Requirements for the B.A. in Liberal Studies - Spanish Studies Track:

A. Language Arts Breadth Area (28 units)

1. Written Communication (G.E.)
 - ENG 101. Freshman Composition (4)
2. Upper-division Writing Requirement (G.E.)
 - Four units chosen from:
 - EDUC 306. Expository Writing for Education (4)
 - ENG 306. Expository Writing (4)
 - HUM 306. Expository Writing for the Humanities (4)
 - MGMT 306. Expository Writing for Administration (4)
 - NSCI 306. Expository Writing for the Natural Sciences (4)
 - SSCI 306. Expository Writing for the Social Sciences (4)

Note: This requirement also can be met by passing a proficiency examination. Students who pass the examination may use the four units as free electives.

3. Oral Communication (G.E.)
 - COMM 120. Oral Communication (4)
4. Literature (G.E.)
 - Four units chosen from:
 - ENG 110. World Literature I (4)
 - ENG 111. World Literature II (4)
 - ENG 160. World Drama (4)

- ENG 170. Studies in Literature (4)
 - TA 160. World Drama (4)
 - TA 212. Oral Interpretation of Literature (4)
5. Development of Language
 - ENG 311. The English Language (4)
 6. Analysis of Literature
 - Four units chosen from:
 - ENG 301. Analysis of Poetry (4)
 - ENG 302. Analysis of Drama (4)
 - ENG 303. Analysis of Prose Fiction (4)
 - ENG 304. Analysis of Nonfiction Prose (4)
 - TA 302. Analysis of Drama (4)
 7. Upper-division elective
 - Note:** A course counted under category A5 or A6 cannot be counted under category A7.
 - Four units chosen from:
 - ENG 301. Analysis of Poetry (4)
 - ENG 302. Analysis of Drama (4)
 - ENG 303. Analysis of Prose Fiction (4)
 - ENG 304. Analysis of Nonfiction Prose (4)
 - ENG 309. Literature in the Classroom (4)
 - ENG 311. The English Language (4)
 - ENG 314. American Indian Literature (4)
 - ENG 317. Introduction to Creative Writing: Poetry (4)
 - ENG 318. Introduction to Creative Writing: Fiction (4)
 - ENG 319. Studies in Literary Diversity (4)
 - ENG 320. Children's Literature (4)
 - ENG 322. Studies in Literary Themes, Genres, or Authors (4)
 - ENG 323. Chicano Literature (4)
 - ENG 327. Literature for Adolescents and Young Adults (4)
 - ENG 330. American Literature I (4)
 - ENG 331. American Literature II (4)
 - ENG 332. American Literature III (4)
 - ENG 333. Myth and Epic (4)
 - ENG 335. Studies in the Novel (4)
 - ENG 336. Women Writers (4)
 - ENG 339. African American Literature (4)
 - ENG 401. English Literature of the Middle Ages (4)
 - ENG 403. English Literature of the Renaissance (4)
 - ENG 406. Seventeenth Century Literature (4)
 - ENG 409. English Literature of the Restoration and Eighteenth Century (4)
 - ENG 412. Romantic Prose and Poetry (4)
 - ENG 415. Victorian Literature (4)
 - ENG 442. Modern Poetry (4)
 - ENG 446. Modern Fiction (4)
 - ENG 450. Classical Drama (4)
 - ENG 455. Modern Drama I (4)
 - ENG 456. Modern Drama II (4)
 - ENG 475. Shakespeare I (4)
 - ENG 476. Shakespeare II (4)
 - ENG 513. Advanced Creative Writing (4)
 - ENG 515. Senior Seminar in Literature (4)
 - ENG 565. Special Studies in Writing (2)
 - ENG 566. Special Studies in Writing (4)
 - HUM 312. Theories of Language Acquisition and Learning (4)
 - TA 302. Analysis of Drama (4)

- TA 450. Classical Drama (4)
 TA 455. Modern Drama I (4)
 TA 456. Modern Drama II (4)
 TA 475. Shakespeare I (4)
 TA 476. Shakespeare II (4)
- B. Humanities and the Arts Breadth Area (38 units)
1. Critical Thinking (G.E.)
 Four units chosen from:
 COMM 180. Critical Thinking Through Argumentation (4)
 MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
 PHIL 105. Critical Thinking Through Argument Analysis (4)
 PHIL 200. Critical Thinking Through Symbolic Logic (4)
 PSYC 105. Critical Thinking Through Problems Analysis (4)
 SOC 180. Critical Thinking about Social Problems (4)
2. Philosophy (G.E.)
 Four units chosen from:
 PHIL 190. Introduction to Philosophical Issues (4)
 PHIL 191. Introduction to Ethics (4)
 PHIL 192. Introduction to Philosophy of Religion (4)
 PHIL 193. Introduction to Eastern Philosophy (4)
 PHIL 194. Introduction to Knowledge and Reality (4)
3. Spanish Language (G.E.)
 Four units chosen from:
 SPAN 212. Composition (4)
 SPAN 213. Composition for Spanish Speakers (4)
Note: Students with two years high school study will not receive credit in the major for SPAN 101 and 102.
Note: Students beginning Spanish can credit in category G or free electives, the following courses:
 SPAN 101. College Spanish I
 SPAN 102. College Spanish II
 SPAN 150. Intermediate Spanish
 SPAN 155. Intermediate Spanish for Spanish Speakers
4. Arts
 1. Four units in the arts (G.E.) chosen from:
 ART 200. Studies in Art (4)
 MUS 180. Studies in Music (4)
 TA 260. Introduction to Theatre (4)
 2. ART 395. Art in the Classroom (3)
 3. MUS 531. Musical Development for the Elementary Teacher (3)
 4. Three units chosen from:
 TA 385. Acting for Non-Majors (4)
 TA 481. Creative Drama in the Classroom (3)
 TA 483. Children's Theatre (4)
 TA 484. Readers Theatre in the Classroom (4)
 TA 579. Theatre in the Elementary Classroom (4)
Note: The extra unit from TA 385, 483, 484 or 579 may count towards free electives.
5. Upper-division Spanish Language Skills (9 units)
 SPAN 302. Theory and Practice in Composition (4)
- SPAN 395. Junior Assessment (1)
 SPAN 415. Comparative Linguistics: Spanish/English (4) (All students must maintain a 3.0 ("B") or above in this course.)
6. Integrative Capstone in the Humanities (G.E.)
 HUM 335. The Origin and Contemporary Role of Latino Culture (4) (meets the requirements in category F1) (All students must maintain a 3.0 ("B") or above in this course.)
- C. Mathematics and Natural Sciences Breadth Area (36 units)
1. Mathematics (G.E.):
 Four units chosen from:
 MATH 110. College Algebra (4)
 MATH 115. The Ideas of Mathematics (4)
 MATH 120. Pre-Calculus Mathematics (4)
 MATH 192. Methods of Calculus (4)
 MATH 211. Basic Concepts of Calculus (4)
2. Mathematical Applications
 Four units chosen from:
 MATH 211. Basic Concepts of Calculus (4)
 MATH 212. Calculus II (4)
 MATH 302. Problem Solving in Mathematics (4)
Note: MATH 211. Basic Concepts of Calculus may not be taken for credit by students who have received credit for this course in category C1.
3. Life Science (G.E.)
 Five units chosen from:
 BIOL 100. Topics in Biology (5)
 BIOL 202. Biology of Populations (5)
 HSCI 120. Health and Society: An Ecological Approach (5)
4. Physical and Earth Sciences
 Nine units chosen from one of the following three-course sequences (1, 2 or 3) to include one course in each of the physical sciences (physics and chemistry) and earth/space sciences (geology, geography and astronomy):
1. a. One of the following:
 CHEM 100. Chemistry in the Modern World (5)
 CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
 CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
 b. GEOL 304. Geology in the Classroom (2)
 c. PHYS 304. Physics in the Classroom (2)
2. a. One of the following:
 PHYS 100. Physics in the Modern World (5)
 PHYS 121. Basic Concepts of Physics (5)
 PHYS 221. General Physics I (5)
 b. CHEM 304. Chemistry in the Classroom (2)
 c. GEOL 304. Geology in the Classroom (2)
3. a. One of the following:
 GEOG 103. Physical Geography (5)
 GEOL 101. Introductory Geology (5)
 PHYS 103. Descriptive Astronomy (5)
 b. CHEM 304. Chemistry in the Classroom (2)
 c. PHYS 304. Physics in the Classroom (2)

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5. Special Topics in Science and Technology (G.E.)
Two units chosen from:
BIOL 216. Genetics and Society (2)
BIOL 217. Biology of Sexually Transmitted Diseases (2)
CHEM 105. Chemicals in Our Environment (2)
CSCI 124. Exploring the Information Superhighway (2)
GEOL 210. Earthquakes: Science and Public Policy (2)
6. Mathematics and Natural Sciences Electives
1. CSCI 127. Introduction to Computer Technology for Educators (4)
2. MATH 301. Basic Mathematics for Educators (4)
7. Integrative Capstone in the Natural Sciences (G.E.)
Four units chosen from:
NSCI 300. Science and Technology (4)
NSCI 310. The Environment and Human Survival (4)
NSCI 314. Life in the Cosmos (4)
NSCI 320. Energy (4)
NSCI 325. Perspectives on Gender (4) (meets the requirement in category F1)
NSCI 351. Health and Human Ecology (4)
NSCI 360. Legacy of Life (4)
Note: Students may receive credit for only one of the following courses:
HUM 325. Perspectives on Gender
NSCI 325. Perspectives on Gender
SSCI 325. Perspectives on Gender
- D. Social and Behavioral Sciences Breadth Area (32 units)
1. American History and Civilization (G.E.)
Four units chosen from:
HIST 146. American Civilization (4)
HIST 200. United States History to 1877 (4)
HIST 201. United States History, 1877 to the Present (4)
2. American Institutions (G.E.)
PSCI 203. American Government (4)
Note: The American History, Constitution, State and Local Government requirement can be met by taking PSCI 203 and either HIST 146, 200, or 201. However, even if this requirement is met by examination, students must still take eight units of lower-division coursework, chosen from categories D3 and D4 and counted in categories D1 and D2.
3. World Cultures (G.E.)
Four units chosen from:
ANTH 140. World Civilizations I, the Rise of Civilization (4)
HIST 140. World Civilizations I, the Rise of Civilization (4)
HIST 142. World Civilizations II, the Civilizations of the East and West (4)
HIST 144. World Civilizations III, the Expansion of Europe (4)
SSCI 165. Regions and Peoples of the World (4)
4. Discipline Perspectives (G.E.)
Four units chosen from:
ANTH 100. Introduction to Anthropology: Human Evolution (4)
ANTH 102. Introduction to Anthropology: Culture and Society (4)
ECON 104. Economics of Social Issues (4)
ES 100. Ethnicity and Race in America (4)
GEOG 100. Introduction to Human Geography (4)
PSCI 100. Introduction to Political Science (4)
PSYC 100. Introduction to Psychology (4)
SOC 100. The Study of Society (4)
WSTD 100. Introduction to Women's Studies (4)
5. Social Science Electives (12 units)
1. PSYC 320. Psychology of Middle Childhood (4)
2. Eight units chosen from historical and anthropological contexts:
ANTH 306. Aztecs, Maya and Their Predecessors (4)
ANTH 307. Incas and Their Predecessors (4)
ANTH 330. Cross-Cultural Child-Rearing Practices (4)
ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)
ANTH 352. Indians of the Southwest (4)
ANTH 354. Cultures of Mexico and Central America (4)
ANTH 356. Cultures of South America (4)
ANTH 460. Language and Culture (4)
ANTH 475. Cultural Ecology (4)
ANTH 480. Magic, Religion and Science (4)
HIST 370. History of California (4)
HIST 390. History of Modern Mexico (4)
HIST 391. Chicano History (4)
HIST 465. Modern Central America (4)
HIST 467. Latin American History Through Film (4)
HIST 469. Colonial Latin America (4)
HIST 470. Modern Latin America (4)
HIST 565. Ethnic Minorities in American History (4)
HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
SOC 442. Chicano Social Stratification (4)
SSCI 304. Contemporary Latin America (4)
6. Integrative Capstone in the Social and Behavioral Sciences (G.E.)
Four units chosen from:
SSCI 300. Nonwestern World (4)
SSCI 304. Contemporary Latin America (4)
SSCI 315. Cultural Adaptation: The Quest for Survival (4)
SSCI 316. Race and Racism (4) (meets the requirement in category F1)
SSCI 320. Understanding Capitalism (4)
SSCI 321. Urbanization and the Urban Environment (4)
SSCI 325. Perspectives on Gender (4) (meets the requirement in category F1)
SSCI 343. Understanding Socialism (4)

- SSCI 345. Religious Expression in America (4)
- SSCI 350. Roots of Modern Racism in America (4)
(meets the requirement in category F1)

Note: Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
- NSCI 325. Perspectives on Gender
- SSCI 325. Perspectives on Gender

E. Lifelong Understanding (10 units)

1. The Whole Person—physical and physiological issues (G.E.)

Two units chosen from:

- KINE 205. Foundations for Lifetime Fitness and Wellness (2)

- NSCI 110. Health and Self Care (2)

2. The Whole Person—social and psychological issues (G.E.)

Two units chosen from:

- PHIL 101. Moral Choices in Life (2)
- PSYC 115. Personal and Social Adjustment (2)
- SOC 110. Choices in the Life Course (2)

3. Physical Education (G.E.)

1. Two units chosen from courses listed below. Students are encouraged to elect a dance course, KINE 150:

- KINE 101. Individual and Dual Activities (2)
- KINE 114. Physical Fitness and Conditioning Activities (2)
- KINE 120. Combative and Martial Arts Activities (2)
- KINE 121. Team Activities (2)
- KINE 137. Aquatic Activities (2)
- KINE 147. A Fitness Odyssey (2)
- KINE 149. Independent Activity Project (2)
- KINE 150. Dance Activities (2)

2. Four units chosen from:

- DAN 481. Creative Dance in the Classroom (4)
- KINE 352. Movement for Children (4)

F. Multicultural/Gender Category

1. HUM 335. The Origin and Contemporary Role of Latino Culture (4)

G. Spanish Studies (20 units)

Choose 1 or 2 below:

1. Twenty units, at least 12 units must be upper-division, chosen from:

- ANTH 330. Cross-Cultural Child-Rearing Practices (4)
- ANTH 354. Cultures of Mexico and Central America (4)
- ANTH 356. Cultures of South America (4)
- ANTH 460. Language and Culture (4)
- ART 328. Mexican Art (4)
- ART 329. Chicano Art (4)
- FLAN 320. Masterpieces of Literature (4) (when the topic is Spanish or Latin American Studies)
- HIST 390. History of Modern Mexico (4)
- HIST 391. Chicano History (4)
- HIST 470. Modern Latin America (4)
- IS 460. Aspects of Chicano Culture (4)

- MUS 351. Latin American Music (4)
- SPAN 101. College Spanish I (4)
- SPAN 102. College Spanish II (4)
- SPAN 150. Intermediate Spanish (4)
- SPAN 155. Intermediate Spanish for Spanish Speakers (4)
- SPAN 200. Spanish Workshop (4)
- SPAN 214. Conversation (4)

Upper-division Spanish courses (300-level or above)

Note: Course work credited elsewhere in the bilingual/cross-cultural emphasis cannot be counted in the concentration.

2. TESL Emphasis (20 units)

1. EELB 275. Internship in Service Learning (2-5) for a total of (4)
2. ENG 420. Pedagogical Grammar (4)
3. HUM 312. Theories of Language Acquisition (4)
4. Four units chosen from:
 - ENG 321. Studies in Language and Linguistics (4)
 - ENG 524. Sociolinguistics (4)
5. Four units chosen from:
 - ENG 422. History of English (4)
 - ENG 526. English Phonetics and Phonology (4)
 - ENG 523. English Syntax (4)

Note: Internship must be performed in a TESL class setting; class should include students whose first language is Spanish. Approval of this internship by the Liberal Studies Coordinator is required.

H. Field Experience (4 units)

1. EELB 275. Internship in Service Learning (1-5) for a total of (4)

Note: Internship must be performed in a school setting.

B.A. IN LIBERAL STUDIES - NON TEACHING TRACK

Requirements (150 units)

Total units required for graduation: 180

BASIC PROGRAM (130 units)

- A. Language Arts (28 units)
- B. Humanities and the Arts (32 units)
- C. Mathematics and Natural Sciences (32 units)
- D. Social and Behavioral Sciences (32 units)
- E. Lifelong Understanding (6 units)
- F. Multicultural/Gender Category

FIELD OF CONCENTRATION (20 units)

- G. Concentrations

LIBERAL STUDIES TOTAL (150 units)

All Liberal Studies students should give special attention to the following points before they begin their course work:

1. Since the Liberal Studies program contains a variety of choices, students should seek advisement as early as possible at the Liberal Studies Peer Advising Center (PALS), CH-137;
2. By completing the Liberal Studies program, students also can fulfill the general education requirements of the university;

3. A course only can be counted once within the Liberal Studies program; for example, a course taken in the concentration, category G, cannot be taken in a breadth area, categories A through D;
4. This Liberal Studies program track is designed for students who wish to obtain a degree in Liberal Studies and are not planning on teaching in the elementary school;
5. With advisement and a careful selection of courses, students can also complete a second major or minor in certain fields;
6. All Liberal Studies students must maintain a grade point average of at least 2.0 ("C").

The basic program in liberal studies is divided into four breadth areas, categories A through D. Within categories A through E, the course work is subdivided further into courses in required sections and electives. Sections throughout the basic program that also meet general education requirements are marked "G.E."

Note: No one course may be counted in more than one category.

Requirements for the B.A. in Liberal Studies - Non Teaching Track:

A. Language Arts Breadth Area (28 units)

1. Written Communication (G.E.):
ENG 101. Freshman Composition (4)
2. Upper-division Writing Requirement (G.E.)
Four units chosen from:
EDUC 306. Expository Writing for Education (4)
ENG 306. Expository Writing (4)
HUM 306. Expository Writing for the Humanities (4)
MGMT 306. Expository Writing for Administration (4)
NSCI 306. Expository Writing for the Natural Sciences (4)
SSCI 306. Expository Writing for the Social Sciences (4)
Note: This requirement also can be met by passing a proficiency examination. Students who pass the examination may use the four units as free electives.
3. Oral Communication (G.E.)
COMM 120. Oral Communication (4)
4. Literature (G.E.)
Four units chosen from:
ENG 110. World Literature I (4)
ENG 111. World Literature II (4)
ENG 160. World Drama (4)
ENG 170. Studies in Literature (4)
TA 160. World Drama (4)
TA 212. Oral Interpretation of Literature (4)
5. Development of Language
Four units chosen from:
ENG 311. The English Language (4)
FREN 307. Phonetics (4)
PHIL 387. Philosophy of Language (4)
SPAN 415. Comparative Linguistics: Spanish/English (4)

6. Analysis of Literature

Four units chosen from:

- ENG 301. Analysis of Poetry (4)
- ENG 302. Analysis of Drama (4)
- ENG 303. Analysis of Prose Fiction (4)
- ENG 304. Analysis of Nonfiction Prose (4)
- TA 302. Analysis of Drama (4)

7. Upper-division elective

Note: A course counted under categories A5 or A6 cannot be counted under category A7.

Four units chosen from:

- ENG 301. Analysis of Poetry (4)
- ENG 302. Analysis of Drama (4)
- ENG 303. Analysis of Prose Fiction (4)
- ENG 304. Analysis of Nonfiction Prose (4)
- ENG 309. Literature in the Classroom (4)
- ENG 311. The English Language (4)
- ENG 314. American Indian Literature (4)
- ENG 317. Introduction to Creative Writing: Poetry (4)
- ENG 318. Introduction to Creative Writing: Fiction (4)
- ENG 319. Studies in Literary Diversity (4)
- ENG 320. Children's Literature (4)
- ENG 322. Studies in Literary Themes, Genres, or Authors (4)
- ENG 323. Chicano Literature (4)
- ENG 327. Literature for Adolescents and Young Adults (4)
- ENG 330. American Literature I (4)
- ENG 331. American Literature II (4)
- ENG 332. American Literature III (4)
- ENG 333. Myth and Epic (4)
- ENG 335. Studies in the Novel (4)
- ENG 336. Women Writers (4)
- ENG 339. African American Literature (4)
- ENG 401. English Literature of the Middle Ages (4)
- ENG 403. English Literature of the Renaissance (4)
- ENG 406. Seventeenth Century Literature (4)
- ENG 409. English Literature of the Restoration and Eighteenth Century (4)
- ENG 412. Romantic Prose and Poetry (4)
- ENG 415. Victorian Literature (4)
- ENG 442. Modern Poetry (4)
- ENG 446. Modern Fiction (4)
- ENG 450. Classical Drama (4)
- ENG 455. Modern Drama I (4)
- ENG 456. Modern Drama II (4)
- ENG 475. Shakespeare I (4)
- ENG 476. Shakespeare II (4)
- ENG 513. Advanced Creative Writing (4)
- ENG 515. Senior Seminar in Literature (4)
- ENG 565. Special Studies in Writing (2)
- ENG 566. Special Studies in Writing (4)
- HUM 312. Theories of Language Acquisition and Learning (4)
- TA 302. Analysis of Drama (4)
- TA 450. Classical Drama (4)
- TA 455. Modern Drama I (4)
- TA 456. Modern Drama II (4)

- TA 475. Shakespeare I (4)
 TA 476. Shakespeare II (4)
- B. Humanities and the Arts Breadth Area (32 units)
1. Critical Thinking (G.E.)
 Four units chosen from:
 COMM 180. Critical Thinking Through Argumentation (4)
 MATH 180. Critical Thinking Through Applications of Mathematical Logic (4)
 PHIL 105. Critical Thinking Through Argument Analysis (4)
 PHIL 200. Critical Thinking Through Symbolic Logic (4)
 PSYC 105. Critical Thinking Through Problems Analysis (4)
 SOC 180. Critical Thinking About Social Problems (4)
2. Philosophy (G.E.)
 Four units chosen from:
 PHIL 190. Introduction to Philosophical Issues (4)
 PHIL 191. Introduction to Ethics (4)
 PHIL 192. Introduction to Philosophy of Religion (4)
 PHIL 193. Introduction to Eastern Philosophy (4)
 PHIL 194. Introduction to Knowledge and Reality (4)
3. Foreign Language (G.E.)
 Four units chosen from:
 FLAN 150. Intermediate Language Study (4)
 FREN 150. Intermediate French (4)
 FREN 200. Culture and Communication (4)
 FREN 201. Conversation and Composition I (4)
 FREN 202. Conversation and Composition II (4)
 GER 150. Intermediate German (4)
 GER 212. Composition (4)
 GER 214. Conversation (4)
 GER 216. Introduction to Literary Texts (4)
 JAPN 150. Intermediate Japanese (4)
 MAND 150. Intermediate Mandarin (4)
 SPAN 150. Intermediate Spanish (4)
 SPAN 155. Intermediate Spanish for Spanish Speakers (4)
 SPAN 212. Composition (4)
 SPAN 213. Composition for Spanish Speakers (4)
 SPAN 214. Conversation (4)
- Note:** Students pursuing the B.A. in Liberal Studies cannot include in category B3 the following courses:
 FREN 290. French Literature in English
 GER 290. German Literature in English
 SPAN 290. Spanish and Latin American Literature in English
4. Arts
 1. Four units in the arts (G.E.) chosen from:
 ART 200. Studies in Art (4)
 MUS 180. Studies in Music (4)
 TA 260. Introduction to Theatre (4)
 2. Eight units of upper-division activity courses chosen from a list of approved courses available in the Liberal Studies Office.
5. Humanities Electives
 Four upper-division units chosen from: art/music/theatre history, communication studies, humanities, philosophy,

- and foreign languages and literatures in translation (including French, German, Spanish and other languages and foreign literatures) taught in English.
6. Integrative Capstone in the Humanities (G.E.)
 Four units chosen from:
 HUM 319. Myth, Metaphor and Symbol (4)
 HUM 325. Perspectives on Gender (meets the requirement in category F1) (4)
 HUM 330. Arts and Ideas (4)
 HUM 335. The Origin and Contemporary Role of Latino Culture (meets the requirement in category F1) (4)
 HUM 340. Interpretation and Values (4)
 HUM 344. Ideas in American Culture (4)
 HUM 350. The Cultures of American Childhood (meets the requirement in category F1) (4)
 HUM 370. African Heritage in the Arts (meets the requirement in category F1) (4)
 HUM 380. Comparative Studies in the Arts: East and West (meets the requirement in category F1) (4)
 HUM 385. A Cultural History of Fashion (4)
Note: Students can receive credit for only one of the following courses:
 HUM 325. Perspectives on Gender
 NSCI 325. Perspectives on Gender
 SSCI 325. Perspectives on Gender
- C. Mathematics and Natural Sciences Breadth Area (32 units)
1. Mathematics (G.E.)
 Four units chosen from:
 MATH 110. College Algebra (4)
 MATH 115. The Ideas of Mathematics (4)
 MATH 120. Pre-Calculus Mathematics (4)
 MATH 192. Methods of Calculus (4)
 MATH 211. Basic Concepts of Calculus (4)
2. Mathematical Applications
 Four units chosen from:
 MATH 211. Basic Concepts of Calculus (4)
 MATH 212. Calculus II (4)
 MATH 302. Problem Solving in Mathematics (4)
Note: MATH 211. Basic Concepts of Calculus may not be taken for credit by students who have received credit for this course in category C1.
3. Life Science (G.E.)
 Five units chosen from:
 BIOL 100. Topics in Biology (5)
 BIOL 202. Biology of Populations (5)
 HSCI 120. Health and Society: An Ecological Approach (5)
4. Physical and Earth Sciences
 A minimum of five units chosen from:
 CHEM 100. Chemistry in the Modern World (5)
 CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
 CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
 GEOG 103. Physical Geography (5)
 GEOL 101. Introductory Geology (5)
 PHYS 100. Physics in the Modern World (5)

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- PHYS 103. Descriptive Astronomy (5)
PHYS 121. Basic Concepts of Physics (5)
PHYS 221. General Physics I (5)
5. Special Topics in Science and Technology (G.E.)
Two units chosen from:
BIOL 216. Genetics and Society (2)
BIOL 217. Biology of Sexually Transmitted Diseases (2)
CHEM 105. Chemicals in Our Environment (2)
CSCI 124. Exploring the Information Superhighway (2)
GEOL 210. Earthquakes: Science and Public Policy (2)
6. Mathematics and Natural Sciences Electives
Eight units, at least four units of which must be upper-division, chosen from: biology, chemistry, computer science, geology, health science, mathematics, natural sciences or physics courses. Credit may not be received for both CSCI 121 and 127. At least two units must be chosen from:
CSCI 121. Computer Technology and People (2)
CSCI 124. Exploring the Information Superhighway (2)
CSCI 127. Introduction to Computer Technology for Educators (4)
7. Integrative Capstone in the Natural Sciences (G.E.)
Four units chosen from:
NSCI 300. Science and Technology (4)
NSCI 310. The Environment and Human Survival (4)
NSCI 314. Life in the Cosmos (4)
NSCI 320. Energy (4)
NSCI 325. Perspectives on Gender (meets the requirement in category F1) (4)
NSCI 351. Health and Human Ecology (4)
NSCI 360. Legacy of Life (4)
Note: Students may receive credit for only one of the following courses:
HUM 325. Perspectives on Gender
NSCI 325. Perspectives on Gender
SSCI 325. Perspectives on Gender

D. Social and Behavioral Sciences Breadth Area
(32 units)

1. American History and Civilization (G.E.)
Four units chosen from:
HIST 146. American Civilization (4)
HIST 200. United States History to 1877 (4)
HIST 201. United States History, 1877 to the Present (4)
2. American Institutions (G.E.)
PSCI 203. American Government (4)
Note: The American History, Constitution, State and Local Government requirement can be met by taking PSCI 203 and either HIST 146, 200, or 201. However, even if this requirement is met by examination, students must still take eight units of lower-division course work chosen from categories D3 and D4 and counted in categories D1 and D2.

3. World Cultures (G.E.)
Four units chosen from:
ANTH 140. World Civilizations I, the Rise of Civilization (4)
HIST 140. World Civilizations I, the Rise of Civilization (4)
HIST 142. World Civilizations II, the Civilizations of the East and the West (4)
HIST 144. World Civilizations III, the Expansion of Europe (4)
SSCI 165. Regions and Peoples of the World (4)
4. Discipline Perspectives (G.E.)
Four units chosen from:
ANTH 100. Introduction to Anthropology: Human Evolution (4)
ANTH 102. Introduction to Anthropology: Culture and Society (4)
ECON 104. Economics of Social Issues (4)
ES 100. Ethnicity and Race in America (4)
GEOG 100. Introduction to Human Geography (4)
PSCI 100. Introduction to Political Science (4)
PSYC 100. Introduction to Psychology (4)
SOC 100. The Study of Society (4)
WSTD 100. Introduction to Women's Studies (4)
5. Social Science Electives
Twelve units, at least four units must be upper-division, chosen from: anthropology, criminal justice, economics, geography, history, political science, psychology, social sciences, sociology and women's studies.
6. Integrative Capstone in the Social and Behavioral Sciences (G.E.)
Four units chosen from:
SSCI 300. Nonwestern World (4)
SSCI 304. Contemporary Latin America (4)
SSCI 315. Cultural Adaptation: The Quest for Survival (4)
SSCI 316. Race and Racism (meets the requirement in category F1) (4)
SSCI 320. Understanding Capitalism (4)
SSCI 321. Urbanization and the Urban Environment (4)
SSCI 325. Perspectives on Gender (meets the requirement in category F1) (4)
SSCI 343. Understanding Socialism (4)
SSCI 345. Religious Expression in America (4)
SSCI 350. Roots of Modern Racism in America (4) (meets the requirement in Category F1)

Note: Students may receive credit for only one of the following courses:

- HUM 325. Perspectives on Gender
NSCI 325. Perspectives on Gender
SSCI 325. Perspectives on Gender

- E. Lifelong Understanding (6 units)
1. The Whole Person—physical and physiological issues (G.E.)
Two units chosen from:
KINE 205. Foundations for Lifetime Fitness and Wellness (2)
NSCI 110. Health and Self Care (2)

2. The Whole Person—social and psychological issues (G.E.)

Two units chosen from:

- PHIL 101. Moral Choices in Life (2)
- PSYC 115. Personal and Social Adjustment (2)
- SOC 110. Choices in the Life Course (2)

3. Physical Education (G.E.)

Two units chosen from:

- KINE 101. Individual and Dual Activities (2)
- KINE 114. Physical Fitness and Conditioning Activities (2)
- KINE 120. Combative and Martial Arts Activities (2)
- KINE 121. Team Activities (2)
- KINE 137. Aquatic Activities (2)
- KINE 147. A Fitness Odyssey (2)
- KINE 149. Independent Activity Project (2)
- KINE 150. Dance Activities (2)

F. Multicultural/Gender Category

All students must take one upper-division course designated as meeting this requirement, chosen from groups 1 or 2 below:

1. An appropriate Integrative capstone course in one of the following categories: B6, C7, or D6.

- HUM 325. Perspectives on Gender (4)
- HUM 335. The Origin and Contemporary Role of Latino Culture (4)
- HUM 350. The Cultures of American Childhood (4)
- HUM 370. African Heritage in the Arts (4)
- HUM 380. Comparative Studies in the Arts: East and West (4)
- NSCI 325. Perspectives on Gender (4)
- SSCI 316. Race and Racism (4)
- SSCI 325. Perspectives on Gender (4)
- SSCI 350. Roots of Modern Racism in America (4)

2. Upper-division general education elective courses that satisfy the Multicultural/Gender requirement:

- ANTH 325. Human Variation and the Concept of Race (4)
- ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
- COMM 304. Intercultural Communication (4)
- COMM 401. Gender, Race and Media (4)
- CJUS 451. Women and Crime (4)
- ECON 352. Political Economy of Poverty and Discrimination (4)
- ENG 314. American Indian Literature (4)
- HUM 460. Cultural Studies (4)
- MUS 308. Women in Music (4)
- MUS 350. Music of World Cultures (4)
- PHIL 364. Philosophy of Race and Gender (4)
- PHIL 367. Philosophy and Sexual Politics (4)
- PA 305. Organizations in Multicultural and Diverse Societies (4)
- TA 462. African American Theatre and Drama (4)

G. Concentrations (20 units)

Twenty units of which only four units can be lower-division; however, exceptions can be made in art, mathematics, the sciences, and foreign languages at the discretion of the Liberal Studies Coordinator. Courses in the concentration must be selected in consultation with an advisor. They must be drawn from ONE of the following disciplines:

- Administration
- Anthropology
- Art
- Art, Music and Theatre for Teachers
- Biology
- Chemistry
- Communication Studies
- Computer Science
- Dance
- Economics
- English
- Foreign Literature in Translation
- French
- Geography
- Geology
- German
- Health Science
- History
- Human Development
- Human Services
- Humanities
- Kinesiology (no activity courses)
- Latin American Studies
- Mathematics
- Music
- Philosophy
- Physics
- Political Science
- Public Administration
- Psychology
- Sociology
- Spanish
- TESL (Teaching English as a Second Language)
- Theatre Arts
- Women's Studies

MANAGEMENT

Department of Management

Jack Brown Hall, Room 461
880-5731

FACULTY: G.R. Bassiry, Shel Bockman, John Chaney, Foad Derakhshan, Donald Drost, Cherrlyn Eller, Sue Greenfeld, Lee Hanson, Jeanne King, Janice Loutzenhiser, Patrick McInturff, Clark Molstad, Gary Patterson, Lloyd Peake, Patricia Reed, Ernesto Reza (Chair), Jim Rogers, Elisabeth Ryland

The university offers concentrations in management within the Bachelor of Arts in Administration and the Master of Business Administration. Concentrations are offered under the B.A. in Management: Environmental Management, Human Resources Management, Entrepreneurial Management, and the B.S. in International Business. The details of these programs are listed under Administration on [Page 79](#). The Master of Business Administration can be found on [Page 379](#). The courses listed below are offered in support of these programs. Further information is available from the Department of Management.

The Management Department encourages its majors to take part in the California State University's International Programs. This program provides opportunity for CSUSB students to study in a foreign country and earn full resident credit for these studies. Participation in this program will enhance the student's ability to study and work in an international business setting.

For students in management, International Programs are particularly useful in an increasingly competitive global environment where knowledge of diverse cultures, beliefs and societies is essential for success in business. By joining the California State University's International Programs students will have taken a major step in preparing themselves for rewarding careers in the business world of the future. For further information see [Page 25](#).

COURSE OFFERINGS IN MANAGEMENT (MGMT)

Lower Division

100. Introduction to Business and Public Administration

Introduction to the administrative process. Strategies to achieve success in business and public careers. Includes the development of administrative theories and practices and provides an overview of the functional areas of business and public administration. Examines the questions of ethics, small business management and the global aspects of administration. (4 units)

230. Business Law

An introduction to statutory and common law developments impacting commercial transactions. Emphasizes principles of contract law and sale of goods under the Uniform Commercial Code. Additional topics include business organizations,

commercial paper and secured transactions. (MGMT 230=CAN BUS 8) (4 units)

Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 89.9 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

302. Management and Organizational Behavior

Introduction to management as it affects operations and the behavior of people in relation to the functional fields of administration. Selected behavioral concepts analyzed with respect to applications in management. (Also offered as PSYC 302. Students may not receive credit for both.) (4 units)

305. International Organizational Behavior

Examination of interactions among individuals, groups and organizations in international context utilizing lecture, case analysis and experiential skill learning. Emphasizes practical application of management theory in diverse environments. Prerequisite: MGMT 302 or PSYC 302. (4 units)

306. Expository Writing for Administration

Writing related to business and public administration including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. May not be counted for fulfilling concentration requirements for any degree program offered by the College of Business and Public Administration. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly MGMT 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F.1) (4 units)

322. Law and Ethics of Environmental Management

Provides students with an understanding of environmental law and its impact on managerial practices and managerial ethics. The effective modern manager must be knowledgeable in the area of environmental law and relevant ethical issues, which impact decision making in areas ranging from the management of natural resources to plant location and employee issues. (4 units)

324. International Environmental Management

Examines the managerial issues relating to environmental and resource policies in the global economy, focusing on the global environment impact of multinational competition, international treaties, and waste distribution. (4 units)

326. Natural Resource Management

Study of management issues and field techniques in extractive and harvested natural resources, and how they directly impact the human resources, including cost benefit analysis and balancing economic, social and health concerns. (4 units)

330. Legal Environment of Business

Study of the legal system; nature and source of law as applied to business activity; statutes and significant cases involving business policies; effect of public policies on private enterprise system. Prerequisite: MGMT 230. (4 units)

335. Business and Society

Evaluation of American business systems; political, legal and social factors influencing business; role of business in alleviating society's problems; problems and issues of current concern regarding women and minorities in management. (4 units)

350. Administrative Communications

Introduction to communication theory. Concepts, analysis and methods of improvement for interpersonal communication, communication within organizations and communication between organizations and their external environments. (4 units)

402. Studies in Organizational Behavior

Review and presentation of selected areas of behavioral science research and its application to management practices. Selected subjects may include: motivation, communication, change and leadership. Prerequisite: MGMT 302 or PSYC 302. (4 units)

405. International Management

Identification of the diverse factors, actors and forces that shape the global business environment. Comparative analysis of management practices in various cultures with emphasis on sociocultural, political and economic influences. Need for adaptation of business practices to local environment is stressed. Prerequisite: MGMT 302 or PSYC 302. (4 units)

406. International Business Law

Comparison and contrast of the various dimensions of international business transactions. General legal framework in which international business is conducted; competing national laws and courts systems with respect to a variety of typical international business problems; international institutions and prospects for internationalizing the legal treatment of transnational business operations. (4 units)

407. Comparative Management Systems of the Americas

Comparative analysis of private and public sector organizations and corresponding management systems currently operating throughout the Americas. Examination of the structure and management systems of private and public sector organizations in different American countries and the trade patterns among these nations. (4 units)

428. Environmental Policy and Management

Synthesizes the theories and information from the field of environmental management into an integrative capstone course. Provides critical analysis of current environmental issues, as they apply to the practice of management. Prerequisites: MGMT 322, 324, and 326. (4 units)

442. Human Factors in System Development

Principles of human factors design applied to the user-system interface in business, industrial, computer, control and information management systems. Prerequisite: MSCI 210 or MATH 305 or 350 or PSYC 210. (4 units)

442. Small Business Management

Managerial considerations for the small business entrepreneur. Acquisitions, location, legal considerations, finances, taxation, labor relations and other topics. (4 units)

451. Organization and Management Theory

Development and analysis of organization and management theory. Comparative analysis seeking patterns and systematic explanation of differences among organizations. Dynamics of interaction between organizations and environment. Prerequisite: MGMT 302 or PSYC 302. (4 units)

455. Human Resources Management

Policies related to human resources; human resources planning, employee selection and development, performance appraisal, compensation, relationships with unionized employees, collective bargaining. Prerequisite: MGMT 302 or PSYC 302. (4 units)

456. Psychology of Human Resources

Review of research in application of psychology to selection, evaluation and training of human resources. Topics include fair employment legislation, job analysis methodologies, merit evaluation, interviewing techniques and psychometric methods. Prerequisites: MGMT 455 or PSYC 355 and MSCI 210, MATH 305, PSYC 210, or SSCI 215. (4 units)

457. Industrial and Labor Relations

Analysis of historical, political, legal, economic and managerial forces which lead to the development of labor unions and collective bargaining. Focus on legal rights of employees and managerial rights of employer. Involves case law and bargaining simulation. (4 units)

458. Fair Employment Practices

An evaluation of fair employment practices in employment. Course emphasizes antidiscriminatory legislation and its application to employer-employee relationships. Prerequisite: MGMT 455. (4 units)

459. Work Group Management

Intensive examination of the dynamics of task-oriented groups, utilizing both conceptual and experiential learning. Prerequisite: MGMT 302 or PSYC 302. (4 units)

490. Strategic Management

This capstone course develops an overall general manager's perspective of the business and integrates knowledge from accounting, finance, information and decision sciences, production, management, marketing, and public policy. Coverage includes competitive strategy for global, national and regional/local businesses and managerial concerns regarding social and environmental issues. Emphasis is on cases, computer applications and small-group work. Three hours lecture and two hours activity laboratory. Prerequisites: completion of the upper-division administration core courses, the upper-division writing requirement, and senior standing. (4 units)

515. Small Business Consulting

Supervised consulting assignments designed to provide meaningful business assistance to small businesses. Prerequisites: consent of instructor and college. (4 units)

575. Internship in Management

Supervised work and study in private business organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

580. Business Game Competition

Competition based on a business game simulation that is designed to enable advanced business students to integrate and apply the theories of their various business courses. Formerly a topic under MGMT 590. Students may not receive credit for both. (4 units)

590. Seminar in Management

An intensive study of some phase of management to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

MANAGEMENT SCIENCE

Department of Information and Decision Sciences

Jack Brown Hall, Room 460
880-5723

FACULTY: Anand Bhatia (Emeritus), Tony Coulson,
Harold Dyck, Kamvar Farahbod, Jack McDonnell (Emeritus),
Barbara Sirotnik, Jay Varzandeh

The university offers a concentration in management science within the Bachelor of Arts in Administration. The details of this program are listed under Administration on [Page 79](#). The courses listed below are offered in support of these programs. Further information is available from the Department of Information and Decision Sciences.

COURSE OFFERINGS IN MANAGEMENT SCIENCE (MSCI)

Lower Division

210. Applied Business Statistics

An introduction to statistical reasoning and application of primary statistical techniques used in solving managerial problems. Covers both descriptive and inferential statistics. Students may not receive credit for more than one of the following courses: MSCI 210, PSYC 210 or SSCI 215. Three hours lecture and two hours activity laboratory. (4 units)

Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 89.9 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

360. Statistical Analysis for Management

Application of probabilistic models and statistical decision theory to decision-making within the enterprise; techniques for optimization of administrative decisions. Prerequisite: OM 304. (4 units)

400. Decision Methods

Methods of analysis used to solve administrative problems, including simulation and modeling for productivity improvement. Prerequisite: OM 304. (4 units)

467. Research Methods

Principles of research design, development of research instruments, data accumulation and manipulation for manufacturing and service organizations. Includes the theory and methods of business research. Prerequisite: OM 304. (4 units)

470. Inventory Control

Introduction to inventory control in the manufacturing and service organization environment focusing on the theory and practice of the development, application and quality control aspects of inventory control. Prerequisites: MSCI 210, 360, and OM 304. (4 units)

477. Decision Support Systems

Formal information systems that support organizational decision making. Topics include the strategy, framework, design, implementation and evaluation of decision support systems. Students will create and apply decision support systems to planning, coordination, organizing, controlling and/or directing tasks. (Also offered as INFO 477. Students may not receive credit for both.) Prerequisites: OM 304 and INFO 309. (4 units)

575. Internship in Management Science

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Management Science

An intensive study of some phase of management science to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

MARKETING

Department of Marketing

Jack Brown Hall, Room 458
880-5749

FACULTY: Fred Hebein, Vic Johar (Chair), Norton Marks, Eric Newman, Nabil Razzouk, Victoria Seitz

The university offers a concentration in marketing within the Bachelor of Arts in Administration, the Bachelor of Science in Administration and the Master of Business Administration. The details of these programs are listed under Administration on [Page 79](#) and the Master of Business Administration can be found on [Page 379](#). The courses listed below are offered in support of these programs. Further information is available from the Department of Marketing.

In today's business world, growing numbers of U.S. companies both large and small are getting involved in international marketing. Because of this increased involvement in international business, marketing students are encouraged to participate in the California State University's International Program. For further information, see [Page 25](#).

NOTE: Special B.A. program in Advertising Management.

A number of students have found that clustering related courses in business and art is useful in reaching their career goals. A pre-approved special interdisciplinary curriculum combining coursework in art, management, and marketing has been authorized by the University Curriculum Committee. Only a limited number of students may be accommodated at this time. Students wishing to inquire about this program or apply for a Special Major in Advertising Management should contact the Department of Marketing for details.

COURSE OFFERINGS IN MARKETING (MKTG)

Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 89.9 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

305. Marketing Principles

Overview of the field of marketing and its interactions with other aspects of business. Includes consumer and industrial buying behavior; target marketing, segmentation, positioning, and differentiation; marketing research; product, distribution, promotion, and pricing decisions; industrial, services, and international marketing as well as legal and ethical dimensions. Prerequisite: junior standing. (4 units)

350. Logistics

Science of movement, storage, delivery and distribution. Topics include channels of distribution, purchasing, customer service, inventory types and functions. Formerly MKTG 450. Prerequisite: MKTG 305. (4 units)

410. Consumer Behavior

Consumer decision processes in the consumptive role including internal and external influences on consumer behavior and marketing strategies. Prerequisite: MKTG 305. (4 units)

415. Product Management

Techniques and processes of product development and product management. Topics include idea generation, screening, design, testing and commercialization. Introduces basic product management techniques such as brand switching, product adoption forecasting, and customer preference specification. Prerequisite: MKTG 305. (4 units)

416. Marketing Research

Marketing research as an activity of information gathering, analysis and interpretation for input into management decision making. Application of current practices and techniques in the marketing research industry. Requires the use of statistical software. Three hours lecture and two hours activity laboratory. Formerly MKTG 440. Prerequisite: MKTG 305. (4 units)

420. Advertising

Stimulation of market demand through advertising media, including printed messages, radio and television, developing the advertising appeal, selecting the media, placing copy and measuring results, as well as legal, ethical and international aspects of advertising. Prerequisite: MKTG 305. (4 units)

430. Professional Selling and Sales Management

Develops interpersonal communication skills used in the selling of products and services. Skills in prospecting, questioning and listening, understanding needs, demonstrating and explaining products, overcoming objections and closing the sale. Introduces managerial techniques used to supervise a sales force and to analyze company sales. Emphasis on recruitment, training, motivation and evaluation of salespeople. Prerequisite: junior standing. (4 units)

436. Marketing Decision-Making

Reinforcing concepts learned in Marketing Principles, students will analyze, evaluate and develop product, price, promotion and physical distribution marketing programs. Emphasis is placed on analytical techniques and case studies to develop effective student decision-making skills in the major functional areas of marketing. Three hours lecture and two hours laboratory. Prerequisite: MKTG 305. (4 units)

438. Industrial Marketing

Overview of industrial marketing strategy and management. Emphasis on industrial buyer behavior, market and product planning, pricing strategy, and distribution. Analysis of institutional practices including competitive bidding, request for proposals, negotiation, and channel management. Prerequisite: MKTG 305. (4 units)

446. Advertising Campaign

Development of a full marketing and advertising campaign for a client's regional or national product or service offered as needed basis for student competitions or grant opportunities. Three hours lecture and two hours activity laboratory. Formerly MKTG 423. Prerequisite: MKTG 305 or consent of instructor. (4 units)

460. Retailing

History, development, organization and management of retail institutions. Emphasis is on retail store operations, such as location, layout, planning, control of budgets, human resource planning, pricing and customer service. Prerequisite: MKTG 305 or consent of instructor. (4 units)

462. Merchandising

Analysis of merchandise buying. Emphasis is on the buyer's roles, responsibilities and activities. Subjects include merchandise planning, budgeting, inventory control, pricing, vendor relations, and sourcing. Three hours lecture and two hours activity laboratory. Prerequisites: MKTG 305 and consent of instructor. (4 units)

470. International Marketing Management

Marketing strategies for developing global markets including the cultural, political, and economic infrastructure of foreign markets and their impact on traditional marketing decisions. Prerequisite: MKTG 305 or consent of instructor. (4 units)

496. Marketing Planning and Strategy

An integrative approach to strategic marketing management including the planning, design and execution of a comprehensive situation analysis, identification and evaluation of strategic marketing alternatives, and the implementation of marketing plans and programs and an applied knowledge of SPSS or any other data analysis software package. Three hours lecture and two hours computer laboratory. Prerequisites: MKTG 410, 416 and 436. (4 units)

520. Integrated Marketing Communication

An integrated perspective on the process of communicating marketing messages to promote products, services, ideas, people, causes and events. Advertising, direct marketing, personal selling, public relations, and sales promotion strategies are explored with consideration given to global, ethical, and technology-related issues. (Also offered as COMM 520. Students may not receive credit for both.) (4 units)

530. Strategic Entrepreneurship

The role of entrepreneurship in today's economy: identifying entrepreneurial opportunities, designing incubator business projects, strategic entrepreneurial alliances and global market strategies for entrepreneurial ventures. The role of marketing mix in the start up and operation of entrepreneurial ventures. Formerly a topic under MKTG 590. Prerequisite: junior standing. (4 units)

540. E-Marketing

Development of a web-based marketing program. Discussion of customer data bases, logistics of E-marketing, and the flow of products, funds, and information in E-channels. Focus is on understanding how goods and services are created and delivered through the web. Three hours lecture and two hours laboratory. Formerly a topic under MKTG 590. (4 units)

560. Services Marketing

The process of designing and marketing intangible services for profit and non-profit organizations. Emphasis on customer-focused strategies for developing, promoting, pricing and evaluating service mixes in a global context. Formerly a topic under MKTG 590. Prerequisite: junior standing. (4 units)

572. Import-Export Management

Current practices and opportunities in importing and exporting goods with emphasis on preparing products for foreign shipment, shipping, necessary documentation and use of free trade zones. Formerly MKTG 472. Prerequisite: MKTG 305 or consent of instructor. (4 units)

575. Internship in Marketing

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Marketing

An intensive study of some phase of marketing to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 5 units)

MATHEMATICS

Department of Mathematics

Jack Brown Hall, Room 370
880-5361

Bachelor of Arts

Mathematics

Bachelor of Science

Mathematics

Teaching Credential Program

Mathematics

Minor

Mathematics

Master of Arts

Mathematics

(Degree requirements can be found on [Page 478.](#))

Certificate Programs

Introductory Actuarial Science

Teaching Basic Mathematics

FACULTY: Susan Addington, Joseph Chavez, Hajrudin Fejzic, Davida Fischman, Christopher Freiling, Gary Griffing, J. Terry Hallett, Ilseop Han, Zahid Hasan, Yuichiro Kakihara, Dolores Matthews, Shawnee McMurran, Jim Okon, Chetan Prakash, Dan Rinne, John Sarli, Charles Stanton, Joel Stein, Robert Stein, Rolland Trapp, Belisario Ventura, Paul Vicknair, Laura Wallace, Wenxiang Wang, Peter Williams (Chair)

As the role of mathematics in society continues to grow, the value of a solid foundation in mathematics is reinforced. The Department of Mathematics offers a broad program of university course work with a liberal arts emphasis, leading either to a bachelor of arts or to a bachelor of science degree. Such a program of study is flexible enough to prepare a student for positions in industry, business, teaching, or for advanced study toward a graduate degree in mathematics.

Additionally, double majors are not uncommon since the Departments of Computer Science and Physics work closely with the Department of Mathematics in structuring their mathematically based courses.

The department also offers a Master of Arts degree. The emphasis in this program is on a broad mathematics curriculum, making it ideal for those planning a career in teaching, either at the junior college level or in a school district. An effort is made to offer the core courses in this program in the evening to accommodate the working student. For information on this degree, see [Page 478.](#)

In many ways mathematics functions as a universal language in today's global culture. Upper-division students are encouraged to participate in the California State University's International Programs. For further information, see [Page 25.](#)

B.A. IN MATHEMATICS

Requirements (74 units)

Total units required for graduation: 180

Requirements for the B.A. in Mathematics:

Lower-division requirements (26 units)

- Four units chosen from:
 - CSCI 201. Computer Science I (4)
 - CSCI 240. FORTRAN Programming (4)
- MATH 211. Basic Concepts of Calculus (4)
- MATH 212. Calculus II (4)
- MATH 213. Calculus III (4)
- MATH 241. Problem Solving in Calculus (2)
- MATH 251. Multivariable Calculus I (4)
- MATH 252. Multivariable Calculus II (4)

Upper-division requirements (28 units)

- MATH 331. Linear Algebra (4)
- MATH 345. Number Theory and Proof (4)
- MATH 355. Analysis and Proof (4)
- MATH 372. Combinatorics (4)
- MATH 465. Probability Theory (4)
- MATH 545. Abstract Algebra I (4)
- MATH 553. Analysis I (4)

Electives (20 units)

- Twenty units of mathematics electives chosen from the following in consultation with an advisor:
 - MATH 270. Elementary Differential Equations (4)
 - MATH 320. Mathematical Interest Theory (4)
 - May choose only one of the following two courses:
 - MATH 373. Mathematical Methods of Physics I (4)
 - PHYS 373. Mathematical Methods of Physics I (4)
 - MATH 411. Introduction to Mathematical Logic (4)
 - MATH 470. Ordinary Differential Equations (4)
 - May choose only one of the following two courses:
 - MATH 473. Mathematical Methods of Physics II (4)
 - PHYS 473. Mathematical Methods of Physics II (4)
 - MATH 474. Numerical Methods (4)
 - MATH 480. Topics in History of Mathematics (4)
 - MATH 510. Topics in Mathematics (4)
 - MATH 529. Advanced Geometry (4)
 - MATH 546. Abstract Algebra II (4)
 - MATH 554. Analysis II (4)
 - MATH 555. Introduction to Point-Set Topology (4)
 - MATH 557. Complex Variables (4)
 - MATH 565. Mathematical Statistics (4)
 - May choose only one of the following two courses:
 - MATH 573. Mathematical Methods of Physics III (4)
 - PHYS 573. Mathematical Methods of Physics III (4)
 - MATH 576. Introduction to Mathematical Models (4)

B.S. IN MATHEMATICS

Requirements (105 units)

Total units required for graduation: 186

Requirements for the B.S. in Mathematics:

Lower-division requirements (31 units)

- Four units chosen from:
 - CSCI 201. Computer Science I (4)
 - CSCI 240. FORTRAN Programming (4)
- MATH 211. Basic Concepts of Calculus (4)
- MATH 212. Calculus II (4)
- MATH 213. Calculus III (4)
- MATH 241. Problem Solving in Calculus (2)
- MATH 251. Multivariable Calculus I (4)
- MATH 252. Multivariable Calculus II (4)
- PHYS 221. General Physics I (5)

Upper-division requirements (28 units)

- MATH 331. Linear Algebra (4)
- MATH 345. Number Theory and Proof (4)
- MATH 355. Analysis and Proof (4)
- MATH 372. Combinatorics (4)
- MATH 465. Probability Theory (4)
- MATH 545. Abstract Algebra I (4)
- MATH 553. Analysis I (4)

Electives (46 units)

- Twenty-four units of mathematics electives selected from the following with at least eight units chosen from 500-level courses:
 - MATH 270. Elementary Differential Equations (4)
 - MATH 320. Mathematical Interest Theory (4)
 - May choose only one of the following two courses:
 - MATH 373. Mathematical Methods of Physics I (4)
 - PHYS 373. Mathematical Methods of Physics I (4)
 - MATH 411. Introduction to Mathematical Logic (4)
 - MATH 470. Ordinary Differential Equations (4)
 - May choose only one of the following two courses:
 - MATH 473. Mathematical Methods of Physics II (4)
 - PHYS 473. Mathematical Methods of Physics II (4)
 - MATH 474. Numerical Methods (4)
 - MATH 480. Topics in History of Mathematics (4)
 - MATH 510. Topics in Mathematics (4)
 - MATH 529. Advanced Geometry (4)
 - MATH 546. Abstract Algebra II (4)
 - MATH 554. Analysis II (4)
 - MATH 555. Introduction to Point-Set Topology (4)
 - MATH 557. Complex Variables (4)
 - MATH 565. Mathematical Statistics (4)
 - May choose only one of the following two courses:
 - MATH 573. Mathematical Methods of Physics III (4)

PHYS 573. Mathematical Methods of Physics III (4)

2. Twenty-two units in approved courses beyond the general education requirements from at most two disciplines in the natural sciences. Contact the Department of Mathematics office for a list of these courses.

TEACHING CREDENTIAL PROGRAM

Both the Bachelor of Arts and Bachelor of Science in Mathematics are approved as single subject teaching credential programs provided MATH 480 and MATH 529 are taken as electives. In order to be recommended for the teaching credential students must complete the requirements of the major as well as certain prerequisites of the teacher education program. For information about the professional education component, admission to the teacher education program or specific requirements for the single subject waiver program see [Page 161](#) or contact the Credentials Office (C.A.S.E.).

MINOR IN MATHEMATICS

Requirements (34 units)

Requirements for a minor in Mathematics:

Lower-division requirements (22 units)

- A minimum of two units chosen from:
 - CSCI 201. Computer Science I (4)
 - CSCI 240. FORTRAN Programming (4)
 - MATH 241. Problem Solving in Calculus (2)
- MATH 211. Basic Concepts of Calculus (4)
- MATH 212. Calculus II (4)
- MATH 213. Calculus III (4)
- MATH 251. Multivariable Calculus I (4)
- MATH 252. Multivariable Calculus II (4)

Upper-division requirements (12 units)

- MATH 331. Linear Algebra (4)
- Four units chosen from:
 - MATH 345. Number Theory and Proof (4)
 - MATH 355. Analysis and Proof (4)
- Four units chosen from upper-division elective course work in mathematics courses applicable to the major.

DEPARTMENTAL HONORS

The department faculty will determine whether a student is to be awarded departmental honors upon graduation. The criteria will be:

- A grade point average of at least 3.5 in all mathematics courses taken at this university and counted toward fulfilling requirements of the mathematics major.
- At least four units of MATH 595. Independent Study, completed with a grade of "A-" or better, and culminating in a presentation to the department.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion

of a prescribed program of study designed a) to impart specified professional/vocational/career competencies; or b) to produce mastery of the content of a sub-field of an academic major (discipline); or c) to provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Refer to [Page 61](#) for additional certificate information.

Certificate in Introductory Actuarial Science

This program is designed to prepare students for the preliminary exams given by the Society of Actuaries. Completion of those exams is normally considered the prerequisite for internships and entry-level positions in the field of actuarial science. For more information contact the Department of Mathematics.

Certificate Requirements (50 units)

Lower-division requirements (30 units)

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. MATH 213. Calculus III (4)
6. MATH 241. Problem Solving in Calculus (2)
7. MATH 251. Multivariable Calculus I (4)
8. MATH 252. Multivariable Calculus II (4)

Upper-division requirements (20 units)

1. ECON 300. Intermediate Macroeconomics (4)
2. ECON 302. Intermediate Microeconomics (4)
3. MATH 320. Mathematical Interest Theory (4)
4. MATH 372. Combinatorics (4)
5. MATH 465. Probability Theory (4)

Certificate in Teaching Basic Mathematics

Admission to the Program

1. A valid California teaching credential in a subject other than mathematics.

Certificate Requirements (32 units)

Lower-division requirements (20 units)

1. MATH 110. College Algebra (4)
2. MATH 115. The Ideas of Mathematics (4)
3. MATH 120. Pre-Calculus Mathematics (4)
4. MATH 229. Geometry in Two and Three Dimensions (4)

5. Four units chosen from:

- MATH 192. Methods of Calculus (4)
- MATH 211. Basic Concepts of Calculus (4)

Upper-division requirements (12 units)

1. MATH 301. Basic Mathematics for Educators (4)
2. MATH 302. Problem Solving in Mathematics (4)
3. MATH 499. Teaching Mathematics (4)

Note: With departmental permission mathematics courses with a calculus prerequisite may be substituted for any of the following:

- MATH 110. College Algebra
- MATH 120. Pre-Calculus Mathematics

COURSE OFFERINGS IN MATHEMATICS (MATH)

70. Fundamental Arithmetic

Fundamental topics in arithmetic, including a preview of algebra. Units awarded for MATH 70 are not applicable to a baccalaureate degree. Graded A, B, C/no credit. (4 units)

75. Basic Mathematics

A course designed for students who score at or in the lowest quartile on the Entry Level Mathematics examination. Units awarded for MATH 75 are not applicable to a baccalaureate degree. Graded credit/no credit.

- A. Arithmetic of integers, rational numbers and decimals, including the order of operations, percentages, fractions, ratio and proportion, linear equations. (4 units)
- B. Linear equations and their graphs, systems of linear equations, polynomials, factoring, integer exponents and factoring. (4 units)
- C. Integer exponents and factoring, systems of linear equations, solving rational equations, quadratic equations, the Pythagorean theorem, the distance formula. (4 units)

79. Algebra Workshop

A laboratory based algebra workshop; to be taken with MATH 80 by students who would otherwise not qualify for admission to that course. Units awarded for MATH 79 are not applicable to a baccalaureate degree. Graded credit/no credit. Prerequisite: consent of instructor. (1 unit)

80. Fundamental Algebra (FWS)

Arithmetic operations, linear and quadratic equations, applications and introduction to graphing. Units awarded for MATH 80 are not applicable to a baccalaureate degree. Graded A, B, C/no credit. (4 units)

90. Intermediate Algebra (FWS)

Linear and quadratic equations and inequalities, algebraic fractions and rational equations, exponents, radicals and radical equations, applications to word problems. Units awarded for MATH 90 are not applicable to a baccalaureate degree. Graded A, B, C/no credit. Prerequisite: passage of the Entry Level Mathematics examination or a satisfactory score on the appropriate placement test. (4 units)

Lower Division

110. College Algebra (FWS)

Functional notation, graphs and inverses of linear, polynomial, and rational functions, rational exponents, arithmetic and geometric progressions, logarithmic and exponential functions, systems of linear equations. Graded A,B,C/no credit. Prerequisite: passing score on the Entry Level Mathematics examination or passage of MATH 90. (GE=B.1) (MATH 110=CAN MATH 10) (4 units)

115. The Ideas of Mathematics (FWS)

Sets and their applications to topics in discrete mathematics that will include enumeration techniques and finite probability spaces. Graded A, B, C/no credit. Prerequisite: passing score on the Entry Level Mathematics examination or passage of MATH 90. (GE=B.1) (MATH 115=CAN MATH 2) (4 units)

120. Pre-Calculus Mathematics (FWS)

Trigonometric functions, trigonometric identities, right angle trigonometry, complex numbers, conic sections, binomial theorem, induction. Graded A, B, C/no credit. Prerequisite: satisfactory score on the Entry Level Mathematics examination or passage of MATH 110. (GE=B.1) (MATH 120=CAN MATH 16) (4 units)

180. Critical Thinking Through Applications of Mathematical Logic (FWS)

Analysis of logical implication, logical equivalence and valid argument using symbolic logic. Applications drawn from a wide variety of practical examples. Emphasis on problem solving techniques. (GE=A.4) (4 units)

192. Methods of Calculus

A short course in calculus with emphasis on applications. Prerequisite: satisfactory score on the Entry Level Mathematics examination, or passage of MATH 110. This course does not substitute for any course in the calculus sequence MATH 211, 212, 213, 251, 252 required for majors in chemistry, computer science, mathematics or physics. (GE=B.1) (4 units)

211. Basic Concepts of Calculus (FWS)

An introduction to limits and continuity, differentiation of functions in one variable (including trigonometric functions) and antiderivatives with applications. Prerequisite: satisfactory score on the Entry Level Mathematics examination or passage of MATH 120. (GE=B.1) (MATH 211+212+213=CAN MATH SEQ B) (4 units)

212. Calculus II (FWS)

Techniques and applications of integration, differentiation and integration of transcendental functions. Prerequisite: MATH 211 (or 200) with a grade of "C" or better. (MATH 211+212+213=CAN MATH SEQ B) (4 units)

213. Calculus III (FWS)

Sequences and series, numerical techniques, polar coordinates, parametric equations. Prerequisite: MATH 212 (or 201) with a grade of "C" or better. (MATH 211+212+213=CAN MATH SEQ B) (4 units)

229. Geometry in Two and Three Dimensions (W)

Axiomatic foundations of Euclidean geometry and their relation to absolute, affine, and ordered geometry. Isometry and similarity in the Euclidean plane and three-space. Inversive transformations and construction of the real projective plane. Formerly MATH 129. Prerequisites: completion of the general education requirement in mathematics. (4 units)

241. Problem Solving in Calculus (FWS)

An approach to solving calculus-based problems incorporating a computer algebra system. Projects will include interpolation, numerical methods, differential equations and graphical approaches. One hour lecture and three hours laboratory. Prerequisites: some programming experience and MATH 212. Recommended: MATH 213. (2 units)

251. Multivariable Calculus I (FWS)

Vectors and vector geometry in two and three dimensions. Elementary linear algebra. Multivariable functions. Parametrization of space curves. Prerequisite: MATH 212 with a grade of "C" or better. (4 units)

252. Multivariable Calculus II

Differentiation and integration of vector functions with applications, multiple integration, line and surface integrals. Partial and directional derivatives. Theorems of Green and Stokes. Prerequisites: MATH 251, and 213 with a grade of "C" or better. (4 units)

262. Applied Statistics (FWS)

Basic concepts of probability and statistics. Important probability models such as the binomial, Poisson and normal. Statistical procedures, particularly in relation to estimation, hypothesis testing and modeling. Computer simulations and computations. May not be taken for credit by students who have received credit for MATH 305. Prerequisite: MATH 120. Prerequisite or corequisite: MATH 211. (4 units)

270. Elementary Differential Equations (FS)

First order equations, second order linear equations, linear equations with constant coefficients, variation of parameters, applications. Prerequisite: MATH 252. (MATH 270=CAN MATH 24) (4 units)

272. Discrete Mathematics (FWS)

Boolean algebra. Computer arithmetic including hexadecimal, octal and binary numeration. Relations and functions. Vectors and matrices. Introduction to graph theory. Prerequisite: completion of the general education requirement in mathematics. (MATH 272=CAN CSCI 26) (4 units)

Upper Division**301. Basic Mathematics for Educators (FWS)**

Basic mathematics from teacher's viewpoint, emphasizing discovery, patterns, and higher order thinking skills. Operations with rational numbers, applications to problems, and basic geometry. Discussion of curriculum sequence and teaching issues included as they arise. May not be counted toward fulfilling requirements in the mathematics major. Prerequisites: completion of the general education requirements in mathematics, written communication, oral communication and critical thinking. (4 units)

302. Problem Solving in Mathematics (FWS)

Use of heuristic techniques, such as analogy and induction, in problem solving. Elementary and recreational problems selected from algebra, logic, number theory, combinatorics and probability. May not be counted toward fulfilling requirements in the mathematics major. Prerequisites: completion of the general education requirements in mathematics, written communication, oral communication and critical thinking. (4 units)

305. Statistics: Hypothesis Testing and Estimation (FWS)

After a brief introduction to descriptive statistics, course will emphasize hypothesis testing and estimation, using packaged computer programs. May not be taken for credit by students who have received credit for MATH 262. Prerequisite: completion of the general education requirement in mathematics or equivalent preparation. (4 units)

306. Mathematics, the Language of Science

Introduction to basic calculus with emphasis on its role in the development of the life and physical sciences. Applications include rates of change, growth and velocity. Prerequisites: MATH 120 and at least one four unit college level course in both physics and biology. (4 units)

307. Mathematics in Science

Differential equations applied to scientific questions of motion, growth and decay, and populations, including an overview of statistics and data analysis. Prerequisite: a minimum of one quarter of calculus (MATH 192, 211, 306 or equivalent). (4 units)

320. Mathematical Interest Theory

Development of the mathematical theory of interest in both finite and continuous time, including the accumulation function and special cases of simple and compound interest, valuation of the discrete and continuous streams of payments, and nominal and effective interest and discount rates. Application of the theory, with computer applications, to actuarial science, including amortization of lump sums, fixed income securities, and depreciation. Three hours lecture and two hours laboratory. Prerequisites: MATH 213 and 241. (4 units)

331. Linear Algebra (FWS)

Vector spaces over a field, linear dependence, dimension; matrices and systems of linear equations; special matrices and canonical forms; characteristic values and vectors; diagonalization of quadratic forms; applications. A knowledge of a computing language is strongly recommended. Prerequisite: MATH 251 or consent of instructor. (4 units)

345. Number Theory and Proof (FWS)

Introduction to ideas and techniques of proof and historical topics in classical number theory. Theory of divisibility, primes and linear congruences. Theorems of Fermat, Euler and Wilson. Primitive roots and indices. Number theoretic functions. Prerequisite: MATH 213. (4 units)

355. Analysis and Proof (FS)

Introduction to ideas and techniques of proof with an emphasis on analysis. Topics chosen from: logic, set theory, functions, cardinality and analysis. Prerequisite: MATH 213. (4 units)

372. Combinatorics (FWS)

Permutations and combinations, recurrence relations with applications and topics in graph theory. Prerequisite: MATH 213 or consent of instructor. (4 units)

373. Mathematical Methods of Physics I

Vector calculus, Fourier analysis, and ordinary differential equations. Emphasis on techniques applicable to the problems of physics. (Also offered as PHYS 373. Students may not receive credit for both.) Prerequisites: PHYS 222 and MATH 252. MATH 331 is recommended. (4 units)

395. Directed Study

Reading and library research in mathematics conducted under the direction of a faculty member. A total of four units may apply toward the major. Prerequisites: consent of instructor and departmental approval of a written proposal of a project

submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

411. Introduction to Mathematical Logic

Propositional and quantificational logic, completeness and consistency results, formal systems, Peano arithmetic, recursive functions, Godel's incompleteness theorem. Prerequisite: MATH 345. (4 units)

465. Probability Theory (FS)

Probability spaces, independence, conditional probability, densities, mass and distribution functions, moments, joint and marginal distributions, moment generating functions, Chebyshev's inequality, law of large numbers and other topics. Prerequisites: MATH 372 and 252. (4 units)

470. Ordinary Differential Equations (W)

Topics from among: first order equations, linear equations, systems of equations, iterative methods, series solutions, Laplace transformations, applications. Prerequisites: MATH 331 and 270. (4 units)

473. Mathematical Methods of Physics II

A continuation of MATH 373/PHYS 373. Topics covered include functions of a complex variable and partial differential equations. (Also offered as PHYS 473. Students may not receive credit for both.) Prerequisite: MATH 373 or PHYS 373. MATH 331 and PHYS 223 are strongly recommended. (4 units)

474. Numerical Methods

Introduction to numerical methods for finding solutions of non-linear equations, systems of linear equations and ordinary differential equations. Discussion of errors and numerical instabilities; numerical differentiation; numerical integration. Prerequisites: CSCI 201 and MATH 331. (4 units)

480. Topics in History of Mathematics

The genesis of one or more major areas of mathematics, studied in depth and related to the broader historical context. Satisfies the history requirement for the California Single Subject Teaching Credential in mathematics. Prerequisites: MATH 252, 345 and 355. (4 units)

499. Teaching Mathematics

Individualized instruction in the methods and materials for the teaching of mathematics. This course requires background preparation at least equivalent to MATH 120, 129 or 160 and 302. Students in doubt on this point should consult with the Mathematics Department before enrolling. This course may not be counted toward fulfilling requirements of the mathematics major. Prerequisites: completion of the general education requirements in mathematics, written communication, oral communication and critical thinking and MATH 192 or 211. (4 units)

510. Topics in Mathematics

Study of selected areas of advanced mathematics. May be repeated for credit with consent of instructor as topics change. Prerequisite: senior or graduate standing. (4 units)

529. Advanced Geometry

Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. Prerequisites: MATH 129 or equivalent, 331 and 345. (4 units)

545. Abstract Algebra I

An introduction to algebraic structures, including groups, rings and fields. Prerequisites: MATH 331, 345 and 355. (4 units)

546. Abstract Algebra II

Continuation of MATH 545. Prerequisite: MATH 545. (4 units)

553. Analysis I

Continuous and differentiable functions, infinite series. Uniform convergence, computation with series, functions represented by integrals, theory of integration. Prerequisites: MATH 252 and 355. (4 units)

554. Analysis II

Continuation of MATH 553. Prerequisite: MATH 553. (4 units)

555. Introduction to Point-Set Topology

Topics to include topological and metric spaces, compactness, product spaces, connectedness, separation properties. Prerequisite: MATH 355. (4 units)

557. Complex Variables

Analytic and harmonic functions, power series, Cauchy's Theorem and Cauchy's Formula. Prerequisites: MATH 252 and 355. (4 units)

565. Mathematical Statistics

Likelihood ratio, estimators, distributions of estimators, theory of hypothesis testing, linear statistical models. Prerequisite: MATH 465. (4 units)

573. Mathematical Methods of Physics III

A continuation of MATH 473/PHYS 473 with emphasis on advanced topics relevant to physics. (Also offered as PHYS 573. Students may not receive credit for both.) Prerequisites: MATH 331 and 473 or PHYS 473. (4 units)

576. Introduction to Mathematical Models

Topics from linear and probabilistic models, computer simulation, difference and differential equation models. Prerequisites: CSCI 201, MATH 331 and 465. (4 units)

595. Independent Study

An independent study course for senior mathematics majors. A total of four units may apply toward the major. Prerequisites: MATH 331 and 553, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

MILITARY SCIENCE PROGRAM (ARMY ROTC)

Military Science Office

Social and Behavioral Sciences Building, Room 141
880-5533

Military Science Program

FACULTY: CPT R. Bryant, SFC Stahlhuth

The military science program is designed to provide an on-campus program for qualified students in all academic majors who desire to serve as an Army officer on active duty or in a local Army Reserve or Guard unit. While students may participate in either undergraduate or graduate studies, the program requires at least two years to complete.

Students who have completed at least basic training in any of the armed services may be eligible to enter the advanced course directly. Other students must complete three to six of the courses in the basic course of study or complete a six-week summer camp prior to entering the advanced course.

ROTC students are required to participate in off-campus leadership laboratories one weekend each quarter.

Scholarships are available on a competitive basis. All ROTC students receive \$150 per month during the final two years of the program.

MILITARY SCIENCE PROGRAM

Program Requirements

Option I (Four Year Program)

Program Requirements (48 units)

Basic Course of Study (12 units)

1. MILS 151. Basic Military Skills I (2)
2. MILS 152. Basic Military Skills II (2)
3. MILS 153. Basic Military Skills III (2)
4. MILS 251. Leadership and Management I (2)
5. MILS 252. Leadership and Management II (2)
6. MILS 253. Leadership and Management III (2)

Advanced Course of Study (12 units)

1. Twelve units chosen from:
 - MILS 351. Small Unit Operations I (2)
 - MILS 352. Small Unit Operations II (2)
 - MILS 353. Advanced Military Leadership and Management (2)
 - MILS 451. Military Law (2)
 - MILS 452. Contemporary Military Policy (2)
 - MILS 453. Senior Leadership Seminar (2)
 - MILS 595. Independent Study (2) may be repeated for a total of (4)

Leadership Laboratory (12 units)

Students must be enrolled in the following each quarter they are enrolled in the ROTC Program:

1. MILS 100. Leadership Laboratory (1) for a total of (12)

Note: In addition, a six-week advanced camp is required between the final two years of study.

In addition to the ROTC curriculum, cadets must complete one of each of the following type courses in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

Additional Requirements (12 units)

1. Computer Literacy

Four units chosen from one of the following four options:

- A. CSCI 121. Computer Technology and People (2) and CSCI 123. Using Computer Software (2)
- B. CSCI 121. Computer Technology and People (2) and CSCI 124. Exploring the Information Superhighway (2)
- C. CSCI 298. Application Software Topics (2) for a total of (4) as topics change
- D. INFO 101. Introduction to Information Technology (4)

2. Written Communications Skills

Four units chosen from:

- EDUC 306. Expository Writing for Education (4)
- ENG 306. Expository Writing (4)
- HUM 306. Expository Writing for the Humanities (4)
- MGMT 306. Expository Writing for Administration (4)
- NSCI 306. Expository Writing for the Natural Sciences (4)
- SSCI 306. Expository Writing for the Social Sciences (4)

3. Military History

HIST 603. Seminar in Modern Military History (4)

Other classes may be substituted for those listed in each category upon approval of the military science staff.

Note: Some of these requirements are fulfilled by general education classes.

Option II (Two Year Program)

Program Requirements (32 units)

Basic Course Equivalent (2 units)

1. MILS 260. ROTC Basic Camp (2)

Advanced Course of Study (12 units)

1. Twelve units chosen from:
 - MILS 351. Small Unit Operations I (2)
 - MILS 352. Small Unit Operations II (2)
 - MILS 353. Advanced Military Leadership and Management (2)
 - MILS 451. Military Law (2)
 - MILS 452. Contemporary Military Policy (2)
 - MILS 453. Senior Leadership Seminar (2)

Leadership Laboratory (6 units)

Students must be enrolled in the following each quarter they are enrolled in the ROTC program.

1. MILS 100. Leadership Laboratory (1) for a total of (6)

Note: In addition, a six week advanced camp is required between the final two years of study.

In addition to the ROTC Curriculum, cadets must complete one of each of the following type courses in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

Additional Requirements (24 units)

1. Computer Literacy

Four units chosen from one of the following options:

- A. CSCI 121. Computer Technology and People (2) and
CSCI 123. Using Computer Software (2)
- B. CSCI 121. Computer Technology and People (2) and
CSCI 124. Exploring the Information Superhighway (2)
- C. CSCI 298. Application Software Topics (2) for a total of (4) as topics change
- D. INFO 101. Introduction to Information Technology (4)

2. Written Communications Skills

Four units chosen from:

- EDUC 306. Expository Writing for Education (4)
- ENG 306. Expository Writing (4)
- HUM 306. Expository Writing for the Humanities (4)
- MGMT 306. Expository Writing for Administration (4)
- NSCI 306. Expository Writing for the Natural Sciences (4)
- SSCI 306. Expository Writing for the Social Sciences (4)

3. Military History

- HIST 603. Seminar in Modern Military History (4)

Other classes may be substituted for those listed in each category upon approval of the military science staff.

Note: Some of these requirements are fulfilled by general education classes.

COURSE OFFERINGS IN MILITARY SCIENCE (MILS)

Lower Division

100. Leadership Laboratory

Practicum in those skills taught in the classroom during other military science classes in the quarter. To include Small Unit Operations, such as patrolling, air mobile operations, rappelling and weapons qualification. Some training is conducted on weekends. This course is only open to enrolled Army ROTC cadets. The course must be taken each quarter the student is enrolled in the Military Science program. (1 unit)

151. Basic Military Skills I

Introduction to the role of the officer, the noncommissioned officer, and organization of the total Army. Formerly MILS 120. (2 units)

152. Basic Military Skills II

A continuation of basic military skills. Formerly MILS 146D. Prerequisite: MILS 151 or consent of instructor. (2 units)

153. Basic Military Skills III

A continuation of basic military skills. Formerly MILS 146E. Prerequisites: MILS 151 and 152 or consent of instructor. (2 units)

251. Leadership and Management I

Introduction to leadership and management which develops technical skills that must be learned in order to perform as a leader. Students master technical aspects that are specific to the military profession. Prerequisites: MILS 151, 152, and 153 or consent of instructor. (2 units)

252. Leadership and Management II

Continuation of leadership and management skills. Prerequisite: MILS 251 or consent of instructor. (2 units)

253. Leadership and Management III

Continuation of leadership and management skills. Prerequisites: MILS 251 and 252 or consent of instructor. (2 units)

260. ROTC Basic Camp

ROTC Basic Camp is a six week course at FT Knox, KY. The basic camp offers students with no prior military training, or ROTC classes, the chance to enter the ROTC advanced program, if the student has two or more years of undergraduate or graduate study remaining. It is comparable to the first two years of the ROTC program. Prerequisite: consent of Military Science Department advisor. (2 units)

Upper Division

351. Small Unit Operations I

Current tactical doctrine as applied to small unit operations. Prerequisite: consent of instructor. (2 units)

352. Small Unit Operations II

Continuation of current tactical doctrine as applied to small unit operations, with special attention to the leader's role. Prerequisite: MILS 351. (2 units)

353. Advanced Military Leadership and Management

Leadership skills required of an ROTC cadet at advanced camp and as a junior officer in the armed forces. Prerequisite: MILS 352. (2 units)

451. Military Law

Military justice system, including a history of military law, philosophy and structure of the military justice system, courts-martial and alternatives to courts-martial. Prerequisite: consent of instructor. (2 units)

452. Contemporary Military Policy

Contemporary military policy and related subjects of topical military interest, including personal ethics, relevant to the training of junior-level officers. Prerequisite: consent of instructor. (2 units)

453. Senior Leadership Seminar

Leadership and management problems encountered in a company-sized unit, both in garrison and in the field, with emphasis on role of the junior officer. Prerequisite: consent of instructor. (2 units)

595. Independent Study

A directed reading and research course in contemporary military issues oriented towards a student's transition from cadet to commissioned officer. May be repeated twice for credit. Prerequisites: completion of all advanced military science courses and consent of instructor. (2 units)

MUSIC

Department of Music

Performing Arts Building, Room 111
880-5859

Bachelor of Arts

Music

Option I: Music Education

Option II: Specialized Music Studies

Option III: General Music Studies

Teaching Credential Program

Music

Minor

Music

Recording Arts

FACULTY: Edward Bostley, Ray Briggs, Kris Carlisle, Tamara Craver, Robert Dunham (Chair), Loren Filbeck, Larry McFatter, Jerrold Pritchard, James Radomski

The contemporary musician has a potential access to more kinds of music than ever before in history. The music curriculum—with courses in electronic music, performance, world music, historical studies, music education and integrated theory—reflects that diversity in that it offers programs for the student who wishes to enter the teaching profession, become a professional musician, pursue an advanced degree, or simply enrich his or her education.

Admission to the B.A. in Music, upon the approval of the music faculty, is based on: 1) a theory placement examination (proficiency in music fundamentals equal to that of MUS 100 and 101. Basic Musicianship and Laboratory), 2) a piano proficiency audition, and 3) an applied music audition (performance proficiency equal to collegiate applied music at the 140-147 level).

Prospective music composition majors will be required to complete at least one year of applied vocal or instrumental music instruction (MUS 140-145) prior to acceptance into applied composition instruction (MUS 246).

Students whose performance competencies are deemed deficient by the music faculty will be required to enroll in preparatory applied music instruction (at the 80-85 level). Students will be permitted to enroll in preparatory applied music instruction for a total of three units. Units awarded for preparatory applied music instruction are not applicable to the music program nor a baccalaureate degree. These courses are graded credit/no credit.

Music majors will be required to present a public senior recital or project. Option II majors will be required to present a junior recital or project. The presentation of a recital must be approved by the faculty at least 10 weeks prior to the proposed presentation date. At that time a list of probable repertoire or outline of the project must be submitted.

Four weeks prior to the public performance, the student will present the proposed recital or project for faculty approval.

B.A. IN MUSIC

Requirements (96 units)

Total units required for graduation: 180

Requirements for the B.A. in Music:

1. Music theory (24 units)
 - MUS 120. Theory I (3)
 - MUS 121. Theory I Laboratory (1)
 - MUS 122. Theory II (3)
 - MUS 123. Theory II Laboratory (1)
 - MUS 320. Theory III (3)
 - MUS 321. Theory III Laboratory (1)
 - MUS 322. Theory IV (3)
 - MUS 323. Theory IV Laboratory (1)
 - MUS 324. Theory V (3)
 - MUS 325. Theory V Laboratory (1)
 - MUS 542. Studies in Musical Organization (4)
2. Music history (12 units)
 - MUS 304. History of Music I (4)
 - MUS 305. History of Music II (4)
 - MUS 306. History of Music III (4)
3. Conducting (2 units)
 - MUS 210. Conducting (2)
4. Piano proficiency must be demonstrated by completing one of the following:
 - A. MUS 222. Class Piano III (with a grade of "B" or better) (1)
 - B. Successful completion of the piano proficiency examination administered by the department.
5. Concert attendance:
 - Six quarters of MUS 998. Concert Attendance; at least eight Music Department concerts, recitals and related programs must be attended per quarter.
6. Fifty-eight units chosen from Option I, II or III below:

Option I: Music Education

1. MUS 201A. Class Strings I (1)
2. MUS 201B. Class Strings II (1)
3. MUS 202A. Class Woodwinds I (1)
4. MUS 202B. Class Woodwinds II (1)
5. MUS 203A. Class Brass I (1)
6. MUS 203B. Class Brass II (1)
7. MUS 204A. Class Percussion I (1)
8. MUS 204B. Class Percussion II (1)
9. One of the following:
 - MUS 206. Class Voice (1)
 - MUS 207. Diction for Singers (1) (for voice emphasis students)
10. MUS 208. Vocal Music Literature (1)
11. MUS 209. Instrumental Music Literature (1)
12. MUS 216. Class Recorder (1)
13. MUS 218. Synthesizer in the Classroom (1)
14. MUS 301. Choral Conducting (2)
15. MUS 303. Instrumental Conducting (2)
16. MUS 350. Music of Other Cultures (4)
17. Four units chosen from:
 - MUS 400. Studies in Composers (4)
 - MUS 402. Studies in Genres (4)
 - MUS 426. Studies in Music History (4)

18. MUS 406. Orchestration (2)
19. MUS 408. Arranging (2)
20. MUS 410. Music in the Elementary Schools (4)
21. MUS 411. Teaching Music in Secondary Schools (4)
22. MUS 412. Marching Band Techniques (2)
23. MUS 535. Computer Studies for Music Teachers (4)
24. Advanced applied music
Three units chosen from:
 - MUS 440. Upper-Division Voice II (1) for a total of (3)
 - MUS 441. Upper-Division Keyboard Instrument II (1) for a total of (3)
 - MUS 442. Upper-Division String Instrument II (1) for a total of (3)
 - MUS 443. Upper-Division Wind Instrument II (1) for a total of (3)
 - MUS 444. Upper-Division Brass Instrument II (1) for a total of (3)
 - MUS 445. Upper-Division Percussion Instrument II (1) for a total of (3)
 - MUS 446. Upper-Division Composition II (1) for a total of (3)
 - MUS 447. Upper-Division Synthesizer II (1) for a total of (3)
25. Participation in one of the major performance organizations most appropriate to the student's applied emphasis is required each quarter in residence with a maximum of twelve units being applied to the major:
 - MUS 380. Chamber Orchestra (1) for String Instrument Major
 - MUS 381. Symphonic Band (1) for Wind and Percussion Major
 - MUS 385. Concert Choir (1) for Vocal Major
26. One of the following:
 - MUS 993. Senior Project (0)
 - MUS 996. Senior Recital (0)
27. MUS 990. Music Comprehensive Assessment (0)

Option II: Specialized Music Studies

1. MUS 208. Vocal Music Literature (1)
2. MUS 209. Instrumental Music Literature (1)
3. MUS 301. Choral Conducting (2)
4. MUS 303. Instrumental Conducting (2)
5. Eight units chosen from:
 - MUS 400. Studies in Composers (4)
 - MUS 402. Studies in Genres (4)
 - MUS 426. Studies in Music History (4)
6. Four units chosen from:
 - MUS 266. Introduction to Computer and Electronic Music (4)
 - MUS 267. Introduction to Studio Recording Techniques (4)
 - MUS 416. Advanced Computer and Electronic Music (4)
 - MUS 427. Advanced Studio Recording Techniques (4)
 - MUS 535. Computer Studies for Music (4)
7. MUS 406. Orchestration (2)
8. MUS 408. Arranging (2)

9. World music
Four units chosen from:
 - MUS 350. Music of World Cultures (4)
 - MUS 351. Latin American Music (4)
 - MUS 352. African American Music (4)
 - MUS 360. Music in the United States (4)
10. Seventeen units of course work in music chosen from 300-, 400- or 500-level courses.
11. Advanced applied music
Three units chosen from:
 - MUS 440. Upper-Division Voice (1) for a total of (3)
 - MUS 441. Upper-Division Keyboard Instrument (1) for a total of (3)
 - MUS 442. Upper-Division String Instrument (1) for a total of (3)
 - MUS 443. Upper-Division Wind Instrument (1) for a total of (3)
 - MUS 444. Upper-Division Brass Instrument (1) for a total of (3)
 - MUS 445. Upper-Division Percussion Instrument (1) for a total of (3)
 - MUS 446. Upper-Division Composition (1) for a total of (3)
 - MUS 447. Upper-Division Synthesizer (1) for a total of (3)
12. Participation in one of the major performance organizations most appropriate to the student's applied emphasis is required each quarter in residence with a maximum of twelve units being applied to the major:
 - MUS 380. Chamber Orchestra (1) for String Instrument Major
 - MUS 381. Symphonic Band (1) for Wind and Percussion Major
 - MUS 385. Concert Choir (1) for Vocal Major
13. One of the following:
 - MUS 992. Junior Project (0)
 - MUS 995. Junior Recital (0)
14. One of the following:
 - MUS 993. Senior Project (0)
 - MUS 996. Senior Recital (0)
15. MUS 990. Music Comprehensive Assessment (0)

Option III: General Music Studies

1. MUS 208. Vocal Music Literature (1)
2. MUS 209. Instrumental Music Literature (1)
3. Eight units chosen from:
 - MUS 400. Studies in Composers (4)
 - MUS 402. Studies in Genres (4)
 - MUS 416. Advanced Computer and Electronic Music (4)
 - MUS 426. Studies in Music History (4)
 - MUS 427. Advanced Studio Recording Techniques (4)
 - MUS 428. Analog and Digital Synthesis (4)
 - MUS 535. Computer Studies for Music Teachers (4)
4. Three units in applied music at the 300-level.
5. Participation in one of the following performance organizations is required each quarter in residence with a maximum of twelve units being applied to the major:

- MUS 380. Chamber Orchestra (1)
 MUS 381. Symphonic Band (1)
 MUS 385. Concert Choir (1)
 MUS 386. Chamber Singers (1)
 MUS 389. Wind Ensemble (1)
 MUS 391. Jazz Ensemble (1)
 MUS 395. Symphonic Choir (1)
6. Twenty-four units of a traditional minor or 24 units of an interdisciplinary package approved by the department:
 Traditional minor in Business, Theatre Arts, Computer Science, Recording Arts, History, English, Foreign Languages, etc.
- or
- Interdisciplinary package:
 •Music/Theatre
 •Arts Administration
 •Performance Arts (Music/Art/Drama/Dance)
 •Electronic Music/Computer Science/
 Communication
 •Art History/Film History/Music History/Drama
 History/General Cultural History, etc.
7. Five units of upper-division electives chosen from music or the minor area.
8. MUS 528. Special Projects (4)
 9. MUS 993. Senior Project (0)
 10. MUS 990. Music Comprehensive Assessment (0)

TEACHING CREDENTIAL PROGRAM

Students wishing to be recommended for the single subject teaching credential in music must complete the core requirements and Option I of the major in music, as well as certain prerequisites to the teacher education program. For information about the professional education component of the credential program, admission to the teacher education program and specific requirements for the single subject waiver program see [Page 161](#) of this catalog, or contact the Credentials Office (C.A.S.E.).

MINOR IN MUSIC

Requirements (28 units)

Requirements for a minor in Music:

1. MUS 120. Theory I (3) and
 MUS 121. Theory I Laboratory (1)
2. MUS 122. Theory II (3) and
 MUS 123. Theory II Laboratory (1)
3. MUS 180. Studies in Music (4)
4. MUS 208. Vocal Music Literature (1)
5. MUS 209. Instrumental Music Literature (1)
6. MUS 220. Class Piano I (1)
7. MUS 221. Class Piano II (1)
8. World music
 Four units chosen from:
 MUS 350. Music of World Cultures (4)
 MUS 351. Latin American Music (4)
 MUS 352. African American Music (4)
 MUS 360. Music in the United States (4)

9. Four units chosen from:
 MUS 266. Introduction to Computer and Electronic Music (4)
 MUS 267. Introduction to Studio Recording Techniques (4)
 MUS 416. Advanced Computer and Electronic Music (4)
 MUS 427. Advanced Studio Recording Techniques (4)
 MUS 535. Computer Studies for Music Teachers (4)
10. Four units in music courses at the upper-division level.

MINOR IN RECORDING ARTS

Requirements (28 units)

Requirements for a minor in Recording Arts:

1. MUS 120. Theory I (3) and
 MUS 121. Theory I Laboratory (1)
 Option III Music Majors must substitute:
 MUS 266. Introduction to Computer and Electronic Music (4)
2. MUS 122. Theory II (3) and
 MUS 123. Theory II Laboratory (1)
 Option III Music Majors must substitute:
 MUS 267. Introduction to Studio Recording Techniques (4)
3. MUS 416. Advanced Computer and Electronic Music (4)
4. MUS 427. Advanced Studio Recording Techniques (4)
5. Four units chosen from:
 MUS 414. Commercial Arranging (4)
 MUS 428. Analog and Digital Synthesis (4)
6. Eight units in computer and electronic music and recording techniques, which may include, for non-music majors, MUS 266, 267, or 528, or for Option III Music Majors, MUS 528.

HONORS IN PERFORMANCE

Honors in Performance is a continuous six-quarter program designed specifically for upper-division students who show particular distinction as performers and who demonstrate exceptional promise for future growth.

Students admitted to the program will work with their applied music instructors to develop an approved program of study which will be reviewed each quarter by the faculty. Honors students will present a public junior and senior recital.

Upon completion of the program, Honors in Performance will be noted on the student's transcript and successful candidates will be publicly recognized in a special honors concert.

The following criteria and procedures have been established:

1. Candidates will be accepted into the program upon recommendation of the studio instructor and the approval of the music faculty;
2. Entering students must show evidence of previous training, experience and quality of work;
3. A long-range program of instruction will be arranged between the student and the instructor. This program, taking into consideration the student's present capability

and future potential, will be designed to include literature necessary for continued growth, as well as including works considered necessary to musical literacy. Student progress in the program will be evaluated each quarter by the department;

4. Honors candidates are expected to perform in public with reasonable regularity;
5. Candidates who have successfully completed five quarters in the program will then register for MUS 994. Honors in Performance in their sixth quarter;
6. During their senior year honors students will register for MUS 997. Honors Recital in lieu of MUS 996. Senior Recital.

The department has a number of performance groups open to all students. The nature of these groups makes it essential that students register for a minimum of two or more successive quarters in any one ensemble.

COURSE OFFERINGS IN MUSIC (MUS)

THEORY

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

Lower Division

100. Basic Musicianship

Rudiments of music: pitch, rhythm, scales, melody. Must be taken concurrently with MUS 101. (3 units)

101. Basic Musicianship Laboratory

Applied musicianship experience including sightsinging, dictation, and introductory keyboard activity. Credits may not be counted toward fulfilling the requirements of the music major. Must be taken concurrently with MUS 100. (1 unit)

120. Theory I

Basic materials of music and how they combine to create musical structures. Analysis of representative works is combined with creative work in counterpoint and harmony. Must be taken concurrently with MUS 121. Formerly MUS 111. Prerequisites: MUS 100 and 101 or equivalent or placement examination or consent of instructor. (3 units)

121. Theory I Laboratory

Continuation of MUS 101. Applied musicianship experience including sightsinging, dictation, and keyboard activity. Must be taken concurrently with MUS 120. Prerequisites: MUS 100 and 101 or equivalent or placement examination. (1 unit)

122. Theory II

Continuation of MUS 120. Must be taken concurrently with MUS 123. Formerly MUS 112. Prerequisite: MUS 120 and 121 or equivalent or consent of instructor. (3 units)

123. Theory II Laboratory

Continuation of MUS 121. Applied musicianship experience including sightsinging, dictation, and keyboard activity. Must be taken concurrently with MUS 122. Prerequisites: MUS 120 and 121 or equivalent. (1 unit)

Upper Division

320. Theory III

Melody, harmony and texture as they relate to musical structure; extension of tonality and its eventual evolution into twentieth century practice; analysis of representative compositions. Must be taken concurrently with MUS 321. Formerly MUS 313. Prerequisites: MUS 122 and 123 or equivalent, or consent of instructor. (3 units)

321. Theory III Laboratory

Continuation of sightsinging, ear and keyboard training. Must be taken concurrently with MUS 320. Prerequisites: MUS 122 and 123 or equivalent or consent of instructor. (1 unit)

322. Theory IV

Continuation of MUS 320. Must be taken concurrently with MUS 323. Formerly MUS 314. Prerequisites: MUS 320 and 321 or equivalent or consent of instructor. (3 units)

323. Theory IV Laboratory

Continuation of MUS 321. Must be taken concurrently with MUS 322. Prerequisites: MUS 320 and 321 or equivalent or consent of instructor. (1 unit)

324. Theory V

Continuation of MUS 322. Must be taken concurrently with MUS 325. Formerly MUS 315. Prerequisite: MUS 322 and 323 or equivalent or consent of instructor. (3 units)

325. Theory V Laboratory

Continuation of MUS 323. Must be taken concurrently with MUS 324. Prerequisites: MUS 322 and 323 or equivalent or consent of instructor. (1 unit)

542. Studies in Musical Organization

Intensive study of aspects of musical organization: tonal, melodic and rhythmic. Prerequisite: satisfactory completion of MUS 315 or equivalent. (4 units)

HISTORY AND LITERATURE

These courses are concerned with musical ideas and styles, as well as social and aesthetic factors influencing sounds composers ultimately preferred and organized.

Lower Division

180. Studies in Music

Exploration of the elements of music and the nature of meaning and musical style, with emphasis on listening and analysis. (GE=C.1) (4 units)

208. Vocal Music Literature

A survey of major works of solo and ensemble vocal literature. (1 unit)

209. Instrumental Music Literature

A survey of major works of solo and ensemble instrumental literature. (1 unit)

225. Music in the Theatre

A survey of music as it is allied with drama, dance and film. (4 units)

235. Popular Music Literature

A survey of the contributions of operetta, show-tune styles, gospel music, the blues, "standards" of the 30s and 40s, folk and country music, rhythm-and-blues, early rock-and-roll, and the more contemporary and progressive styles of rock, pop and new wave music to twentieth century American popular culture. (4 units)

Upper Division**304. History of Music I**

Development of Western music from antiquity through the Renaissance, with emphasis on analysis, listening and individual study. Prerequisites: MUS 122 and 123 or consent of instructor. (4 units)

305. History of Music II

Continuation of MUS 304. Baroque to the late nineteenth century. Prerequisites: MUS 122 and 123 or consent of instructor. (4 units)

306. History of Music III

Continuation of MUS 305. Late Romantic to the present. Prerequisites: MUS 122 and 123 or consent of instructor. (4 units)

308. Women in Music

Contributions of women to the occidental and non-Western musical heritage in the areas of composition, performance and dance. (GE=G.2) (4 units)

400. Studies in Composers

Intensive study into works of a particular composer. Content will vary. May be repeated for credit as topics change. (4 units)

401. Musical Theatre

History of musical theatre, literature and production. Also offered as TA 401, students may not receive credit for both. (4 units)

402. Studies in Genres

Intensive study into a particular genre or form, such as symphony, concerto, oratorio, opera. Content will vary. May be repeated for credit as topics change. (4 units)

406. Orchestration

Instrumental literature and orchestration, including study of the instruments of the orchestra and writing for instrumental groups. Prerequisites: MUS 122 and 123 or consent of instructor. (2 units)

408. Arranging

Continuation of MUS 406. Techniques of arranging for instrumental and vocal groups. Prerequisite: MUS 406 or consent of instructor. (2 units)

426. Studies in Music History

Intensive study in selected style periods of music. May be repeated for credit as topics change. Prerequisites: MUS 304, 305 and 306 or consent of instructor. (4 units)

510. Special Topics in Music

Areas of special interest in the various fields of music selected for special presentation and development. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

WORLD MUSIC

The following courses are concerned with music as it has developed and as it exists in various cultures of the world. Courses include background necessary to enable the student to understand the role of music in particular societies. Visiting faculty and guest musicians when possible. No prerequisites. Non-music majors encouraged to enroll.

Upper Division**350. Music of World Cultures**

A study of the major musical traditions of the world in their cultural context. (GE=G.2) (4 units)

351. Latin American Music

An overview of the history and current performance practices of classical, folk, and popular music of Latin America. (4 units)

352. African American Music

Historical development of the African American musical heritage. (4 units)

360. Music in the United States

Primarily concerned with music not directly related to Western European classical traditions: folk heritage and blues tradition. (4 units)

COMPOSITION

Working creatively with sound in a relatively unstructured situation. Experimentation is encouraged, based on individual abilities and preferences.

Lower Division**266. Introduction to Computer and Electronic Music**

An introduction to the history, development and practice of computer and electronic music. Non-majors are encouraged to enroll. (4 units)

Upper Division**416. Advanced Computer and Electronic Music**

Intensive study in the history, development and practice of computer and electronic music. Prerequisite: MUS 266 or consent of instructor. (4 units)

COMMERCIAL MUSIC**Lower Division****267. Introduction to Studio Recording Techniques**

Introductory course dealing with microphone techniques, aspects of recording, multi-tracking, mix-down and editing. (4 units)

Upper Division

414. Commercial Arranging

Arranging and composition techniques for groups of varied instrumentation, incorporating concepts of jazz and commercial applications. Prerequisites: MUS 406 and 408 or consent of instructor. (2 units)

417. Composition for Films and Television

Study of the aesthetic, psychological and practical techniques involved in composing music for films and television. Prerequisite: MUS 414 or consent of instructor. (4 units)

427. Advanced Studio Recording Techniques

Intensive course dealing with microphone techniques, aspects of recording, multi-tracking, mix-down and editing. Prerequisite: MUS 267 or consent of instructor. (4 units)

428. Analog and Digital Synthesis

Programming analog and digital synthesizers, drum machines, sequencers, microcomputers and other hardware. Opportunities for hands-on experience. Prerequisite: MUS 416 or consent of instructor. (4 units)

INDEPENDENT STUDY

Upper Division

528. Special Projects

Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit. Prerequisite: consent of instructor. (Credit to be arranged: 1 to 4 units)

MUSIC EDUCATION

The following courses are designed for the prospective elementary and secondary school teacher.

Lower Division

201. Class Strings

- A. I: Beginning study on violin, viola, cello and bass. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
- B. II: Continued study on violin, viola, cello and bass. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 201A. (1 unit)

202. Class Woodwinds

- A. I: Beginning study on selected woodwinds. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
- B. II: Continued study on selected woodwinds. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 202A. (1 unit)

203. Class Brass

- A. I: Beginning study on selected brass instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)

- B. II: Continued study on selected brass instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 203A. (1 unit)

204. Class Percussion

- A. I: Beginning study of percussion instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)
- B. II: Continued study of percussion instruments. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 204A. (1 unit)

205. Class Guitar

- A. I: Beginning study of guitar. (1 unit)
- B. II: Continued study of guitar. (1 unit)

206. Class Voice

Fundamentals of singing, voice production and diction. A minimum of one additional hour per quarter of guided field experience at an approved setting is required. (1 unit)

207. Diction for Singers

Proper diction and pronunciation used in English, Latin, Italian, French and German vocal literature. Examples drawn from standard vocal literature. (1 unit)

210. Conducting

Introduction to basic conducting techniques. A minimum of two additional hours per quarter of guided field experience at an approved setting is required. (2 units)

216. Class Recorder I

Beginning study on the soprano and tenor recorder. (1 unit)

217. Class Recorder II

Intermediate study of the recorder using the alto and bass recorders. Prerequisite: MUS 216 or consent of instructor. (1 unit)

218. Synthesizer in the Classroom

Beginning study on the synthesizer, with special emphasis on its uses in the classroom. (1 unit)

220. Class Piano I

Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

221. Class Piano II

Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

222. Class Piano III

Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

Upper Division

301. Choral Conducting

Techniques and skills employed in the performance of choral literature. A minimum of two additional hours per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 210. (2 units)

302. Music Theatre Production

(2 units)

303. Instrumental Conducting

Techniques and skills employed in the performance of instrumental literature. A minimum of two additional hours per quarter of guided field experience at an approved setting is required. Prerequisite: MUS 210. (2 units)

410. Music in the Elementary Schools

Materials and objectives in teaching music at the elementary school, including specialized instrumental and choral programs, singing and listening activities, and the use of simple instruments appropriate to child growth and development. Field work is included. Prerequisite: MUS 315 or consent of instructor. (4 units)

411. Teaching Music in Secondary Schools

Materials and objectives for teaching music in the secondary schools, including specialized instrumental and choral programs. Field work is included. Prerequisite: MUS 315 or consent of instructor. (4 units)

412. Marching Band Techniques

Marching fundamentals, charting for field shows, precision drills, parade techniques, materials and administration for marching band. Prerequisite: MUS 315 or consent of instructor. (2 units)

513. Orff Schulwerk Level I

Music learning and teaching through the application of the Orff Schulwerk approach. Prerequisite: consent of instructor. (4 units)

514. Orff Schulwerk Level II

Music learning and teaching through the application of the Orff Schulwerk approach. Prerequisite: MUS 513. (4 units)

516. Teaching Recorder in the Elementary Classroom I

Development of personal performance skills on the soprano and tenor recorders as well as developing instructional skills in teaching these recorders in the elementary schools. (2 units)

517. Teaching Recorder in the Elementary Classroom II

Development of personal performance skills on the alto and bass recorders as well as developing instructional skills in teaching these recorders in the elementary school. Prerequisite: MUS 516. (2 units)

519. Audio Production

Methods for creating appropriate musical/audio instructional materials using basic audio production equipment. Does not count toward the music major. (2 units)

531. Musical Development for the Elementary Teacher

A correlated study of the fundamentals of music (melody, harmony and rhythm) through the development of the three basic music skills of critical listening, accurate performance and music literacy (reading and writing music notation). Music performance techniques include the development of singing and instrumental proficiency on the soprano recorder and various elementary classroom rhythm and mallet instruments. Designed for the elementary teacher in accordance with California and National standards for the arts. Not open to majors in music. Six hours of fine arts activity. (3 units)

535. Computer Studies for Music Teachers

This course is intended for music teachers who wish to become familiar not only with hardware, music software, and basic computer music operations, but also with the specific uses of computer technology in the music classroom. Prerequisite: CSCI 127. (4 units)

550. Music in the Elementary Classroom

Development of musical goals, behavioral objectives, teaching strategies, and the writing of lesson plans for music in the elementary schools, K-6. May not be counted toward fulfilling requirements in the major. Prerequisite: MUS 100 or 531 or consent of instructor. (4 units)

570. Music Creativity for the Elementary Classroom

Composing music and lyrics for the elementary classroom using typical school instruments. Prerequisite: MUS 100 or 531, or consent of instructor. (4 units)

APPLIED MUSIC

Music majors are required to take a minimum of three units of applied music at the upper-division level. Permission to register in either lower- or upper-division applied music lessons can be granted only after a placement audition and the approval of the full-time music faculty. Applied music lessons are available to music majors only. Music majors who wish additional applied lesson time are encouraged to enroll through Open University. Students in other majors may enroll in applied music lessons through Open University depending on faculty availability.

For students planning a career in music education, it is strongly recommended that, in addition to the three-unit requirement on a major instrument, three units of applied music study on a secondary instrument be included.

All music majors are required to study on their major instrument each quarter they are in residence. All applied music lessons constitute a one-half hour private instruction each week for the ten-week term.

The following preparatory applied music courses are open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 140-147. Applied instruction at the preparatory MUS 80-85 level does not apply toward the degree or major. Enrollment in Preparatory Applied MUS 80-85 is permitted for a maximum of three units.

MUS 80. Preparatory Voice (1)

MUS 81. Preparatory Piano (1)

MUS 82. Preparatory String Instrument

- A. Violin (1)
- B. Viola (1)
- C. Bass (1)
- D. Guitar (1)

MUS 83. Preparatory Wind Instrument

- A. Flute (1)
- B. Clarinet (1)
- C. Oboe (1)
- D. Bassoon (1)
- E. Saxophone (1)

MUS 84. Preparatory Brass Instrument

- A. Trumpet (1)
- B. Horn (1)
- C. Trombone (1)
- D. Tuba (1)

MUS 85. Preparatory Percussion (1)**80. Preparatory Voice**

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 240. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit. (1 unit)

81. Preparatory Piano

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 241. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit. (1 unit)

82. Preparatory String Instrument

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 242. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)

83. Preparatory Wind Instrument

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 243. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

84. Preparatory Brass Instrument

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 244. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

85. Preparatory Percussion

One-half hour per week of private instruction. Open only to prospective music majors whose performance proficiency is below the collegiate level of MUS 245. Credit does not apply toward the degree or major. May be repeated for a maximum of three units. Graded credit/no credit. (1 unit)

Lower Division

The following music courses are available to undergraduate music majors only:

140. Lower-Division Voice I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

141. Lower-Division Keyboard Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Piano (1 unit)
- B. Organ (1 unit)
- C. Harpsichord (1 unit)

142. Lower-Division String Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)

143. Lower-Division Wind Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

144. Lower-Division Brass Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

145. Lower-Division Percussion Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

147. Lower-Division Synthesizer I

Individual instruction on synthesizer and directed study in live performance and digital programming. Prerequisites: MUS 222 (minimum grade of "B") or equivalent, placement audition, and approval of music faculty. (1 unit)

240. Lower-Division Voice II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

241. Lower-Division Keyboard Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Piano (1 unit)
- B. Organ (1 unit)
- C. Harpsichord (1 unit)

242. Lower-Division String Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)

243. Lower-Division Wind Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

244. Lower-Division Brass Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

245. Lower-Division Percussion Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

246. Lower-Division Composition

One-half hour per week of private instruction. Prerequisites: MUS 122 and 123 or equivalent, at least one year of applied vocal or instrumental instruction at the collegiate level (MUS 240-245, 247), a placement audition, and approval of music faculty. (1 unit)

247. Lower-Division Synthesizer II

Individual instruction on synthesizer and directed study in live performance and digital programming. Prerequisites: successful completion of MUS 222 (minimum grade of "B") or equivalent, placement audition, and approval of music faculty. (1 unit)

Upper Division**340. Upper-Division Voice I**

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

341. Upper-Division Keyboard Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Piano (1 unit)
- B. Organ (1 unit)
- C. Harpsichord (1 unit)

342. Upper-Division String Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)

343. Upper-Division Wind Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

344. Upper-Division Brass Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

345. Upper-Division Percussion Instrument I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

346. Upper-Division Composition I

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

347. Upper-Division Synthesizer I

Individual instruction on synthesizer and directed study in characteristic repertoire, live performance, digital programming, and creative layering of sound. Prerequisites: MUS 416, 418 or 428 and successful completion of MUS 222 (minimum grade of "B") or equivalent, placement audition and approval of music faculty. (1 unit)

440. Upper-Division Voice II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

441. Upper-Division Keyboard Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Piano (1 unit)
- B. Organ (1 unit)
- C. Harpsichord (1 unit)

442. Upper-Division String Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Cello (1 unit)
- D. Bass (1 unit)
- E. Guitar (1 unit)

443. Upper-Division Wind Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)

444. Upper-Division Brass Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty.

- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

445. Upper-Division Percussion Instrument II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

446. Upper-Division Composition II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

447. Upper-Division Synthesizer II

Individual instruction on synthesizer and directed study in characteristic repertoire, live performance, digital programming, and creative layering of sound. One-half hour per week of private instruction. Prerequisites: MUS 416, 418 or 428 and successful completion of MUS 222 (minimum grade of "B") or equivalent, placement audition and approval of music faculty. (1 unit)

PERFORMANCE ORGANIZATIONS

Participation in performance organizations may be repeated for credit, but may not be counted toward fulfilling requirements in the music major.

Upper Division

380. Chamber Orchestra

Performance of representative orchestral literature. Prerequisite: consent of instructor. (1 unit)

381. Symphonic Band

Performance of representative symphonic band literature. (1 unit)

382. Chamber Music

Performance of small ensemble music as determined by available instrumentation. Prerequisite: consent of instructor.

- A. Woodwinds (1 unit)

- B. Percussion (1 unit)
- C. Flute Choir (1 unit)
- D. Brass Quintet (1 unit)
- E. Saxophone (1 unit)
- F. Guitar Ensemble (1 unit)
- G. Clarinet Ensemble (1 unit)

385. Concert Choir

Performance of representative choral literature. (1 unit)

386. Chamber Singers

Prerequisite: consent of instructor. (1 unit)

387. Opera Workshop

Prerequisite: consent of instructor. (1 unit)

388. Women's Chorus

Performance of representative choral literature for women's ensemble. (1 unit)

389. Wind Ensemble

Performance of representative literature for wind ensemble. Prerequisite: consent of instructor. (1 unit)

391. Jazz Ensemble

Performance of representative jazz ensemble literature. Prerequisite: consent of instructor. (1 unit)

392. Show Choir

A highly select "show choir" dedicated to the performance of American popular music, such as Broadway, jazz, and other styles. Active performance schedule can be expected. Prerequisite: consent of instructor. (1 unit)

393. Collegium Musicum

Performance of representative vocal and instrumental literature from the Medieval and Renaissance periods. Four hours activity per week. Prerequisite: consent of instructor. (1 unit)

395. Symphonic Choir

Performance of major works for large choral ensemble. Will present at least one public performance per quarter. Open to all students by audition. Prerequisite: consent of instructor. (1 unit)

396. Reverence Singers

Performance of vocal literature from the Afro-American tradition. (1 unit)

COMMUNITY SERVICE PROJECT

Upper Division

399. Community Service Project

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisite: consent of instructor. (Credit to be arranged: 1 or 2 units)

Graduate level courses can be found on Page 481.

NATURAL SCIENCES

College of Natural Sciences

Biological Sciences Building, Room 132
880-5300

The university offers courses of an interdisciplinary nature but no degree program under the natural sciences designation.

COURSE OFFERINGS IN NATURAL SCIENCES (NSCI)

Lower Division

110. Health and Self Care

Health knowledge pertaining to the integrated person. Emphasis on self-care and knowledge and skills for evaluating and maintaining one's own health. (GE=E.1) (2 units)

295. Special Projects in Natural Science

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of instructor. (Credit to be arranged: 1 or 2 units)

296. Special Projects in Natural Science

Individual investigation, research, study or survey of selected laboratory problems. Prerequisite: consent of instructor. (Credit to be arranged: 1 or 2 units)

Upper Division

300. Science and Technology

Relationship between science and technology—past, present and future—with case studies of the energy crisis, the technology of pollution control and recycling, automation, computers, technology assessment and other contemporary issues. Prerequisite: junior or senior standing. (GE=B.5) (4 units)

306. Expository Writing for the Natural Sciences

Writing on topics related to the natural sciences, including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly NSCI 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F.1) (4 units)

310. The Environment and Human Survival

Consideration of the environment and environmental problems generated by the interactive effects of our biological heritage, the impact of science and technology, and our cultural attitudes. Prerequisite: junior or senior standing. (GE=B.5) (4 units)

314. Life in the Cosmos

Life in the cosmos is discussed using the findings of astronomy, biology, chemistry and physics. Topics include the development of life and its environment, the search for life, interstellar communications and travel and the effects of contact. Prerequisite: junior or senior standing. (GE=B.5) (4 units)

320. Energy

Present and future energy sources, including fossil fuels, hydroelectric power, nuclear energy and solar energy. Scientific principles and technological requirements for developing energy sources, economic factors and environmental problems associated with energy production and consumption. Prerequisite: junior or senior standing. (GE=B.5) (4 units)

325. Perspectives on Gender

This interdisciplinary course uses scientific, humanistic and social science perspectives to foster an understanding of how gender roles in Western culture are established, maintained and changed. (Also offered as HUM 325 and SSCI 325. Students may receive credit for only one of these courses.) Prerequisite: junior or senior standing. (GE=B.5,G.1) (4 units)

351. Health and Human Ecology

A survey of the impact of physical, social and biological environments on health related issues such as poor housing, drug abuse, juvenile delinquency, radiation and pesticide exposure, food quality, noise, air and water resources and their relation to human settlements. Prerequisite: junior or senior standing. (GE=B.5) (4 units)

360. Legacy of Life

History of life on earth and the processes that govern its genesis, evolution, extinction, ecology, and preservation. Prerequisite: junior or senior standing. (GE=B.5) (4 units)

395. Directed Study

Reading and library research in one of the natural sciences disciplines conducted under the direction of a faculty member. Prerequisites: consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

486. Science, Technology and Warfare

Historical examination of the effect of science and technology on warfare. (4 units)

499. Methods and Materials in the Teaching of Natural Sciences Subjects

Individualized instruction in the methods and materials for the teaching of such natural sciences subjects as chemistry, life science, physical education and physics. This course may not be counted toward fulfilling requirements of courses in the above majors. Prerequisites: ESEC 332 (or 330), senior or graduate standing and admission to the single subject credential program or consent of College of Natural Sciences. (4 units)

595. Independent Study

Research in special topics including library studies, field and/or laboratory work in one of the natural sciences disciplines under the direction of a faculty member. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. A maximum of five units in NSCI 595 may be applied toward graduation. (Credit to be arranged: 1 to 5 units)

Graduate level courses can be found on [Page 485](#).

NURSING

Accredited by the National League for Nursing

Department of Nursing

Health and Physical Education, Room 215
880-5380

Bachelor of Science

Nursing
Nursing - R.N.

Master of Science

Nursing
School Nurse
(Degree requirements can be found on [Page 486.](#))

FACULTY: Kristine Blans, Shirley Bristol, Ellen Daroszewski, Janice Layton, Susan Lloyd, Susan McGee, Mary Molle, Marcia Raines (Chair), Leonie Sutherland, Dorothy Thurman, Anna Wilson

The Department of Nursing offers a program leading to the Bachelor of Science degree with a major in nursing. The program is approved by the Board of Registered Nursing of California, accredited by the National League for Nursing, and meets requirements for public health nursing certification in California.

Courses are provided that include theory and clinical experience in caring for clients across the life span who are from diverse psychosocial and cultural backgrounds. A wide range of health care agencies is used for clinical experience. The intent of the program is to graduate generalists in nursing who are concerned with promoting optimum health in a variety of settings.

The B.S. in Nursing is an impacted program. Students are screened for admission to the program prior to the first nursing course, NURS 200. The major factor in screening is the student's grades in courses prerequisite to NURS 200. Only California residents are eligible for admission. Contact the Department of Nursing for more information.

Registered Nurse Applicants

Nurses possessing an associate degree or diploma in nursing and holding current California licensure as a registered nurse may apply for admission as transfer students at the junior level. Diploma graduates may enter the university as "natural sciences undeclared (nursing) majors" while completing lower-division requirements.

See B.S. Nursing-RN on the next page. Enrollment of RNs in nursing courses is on a space-available basis. Contact the Department of Nursing for more information about the RN-BSN program.

Licensed Vocational Nurse Applicants

Vocational nurses licensed in California may enroll in selected courses to meet requirements for licensure as a registered nurse in California. The courses required of licensed vocational nurses are: BIOL 220, 224, NURS 220, 221, 316, 322, 323, 400, 401, 404, and 405. Taking these courses enables Licensed Vocational Nurses to meet eligibility requirements to write the examination to become a Registered Nurse in the State of California, but does not result in a degree.

Licensed Vocational Nurses may also choose to enroll in the baccalaureate program to receive a B.S. degree with a major in nursing. For the degree option, Licensed Vocational Nurses begin the nursing sequence with NURS 220. Enrollment of LVNs in nursing courses is on a space-available basis.

B.S. IN NURSING

Requirements (195 units)

Total units required for graduation: 195

Department Regulations

1. Students must attain grades of "C" or better in all courses required for the major in order to progress in the program. Nursing courses in which students earn less than a "C" may be repeated for credit only once, and this repetition requires both departmental consent and the appropriate university petition.
2. Students on academic probation must remove grade-point deficiencies before progressing further in the nursing program.
3. Nursing students must carry malpractice insurance in the amount of not less than \$1,000,000 per occurrence and \$3,000,000 per year or more in order to be admitted to clinical courses.
4. Prior to the first clinical course and yearly thereafter, students must submit a medical report of a recent physical examination, including tuberculosis skin testing, indicating that they are able to engage in activities required to meet the expectations of the program. Exams are available through the Student Health Center for a fee. Immunizations are required. Contact the Department of Nursing for more information.
5. Students must have access to insured transportation for their clinical experience.
6. Clothing required by the clinical facility appropriate for that setting must be provided by the students with appropriate identification by name and school. (Name pin and arm patch are available for purchase at the Coyote Bookstore.)
7. Advisement with a faculty member is required prior to registration each quarter.
8. The following coursework must be completed prior to admission to the major:
CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)

Degree Requirements

Prerequisite support courses

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. COMM 120. Oral Communication (4)
5. One critical thinking course that satisfies category A4 in the General Education Program.
6. ENG 101. Freshman Composition (4)
7. One math course that satisfies category A.3/B.1 in the General Education Program.

Additional lower-division support courses

1. CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)

2. CHEM 207. Fundamentals of Chemistry III: Biochemistry (5)
3. PSYC 201. Developmental Psychology (4)

Upper-division support courses required after admission to the nursing major

1. MATH 305. Statistics: Hypothesis Testing and Estimation (4)
2. One four-unit integrative capstone course that meets the multicultural/gender requirement in the general education program.

Sophomore Nursing Courses

1. NURS 200. Intermediate Care: Beginning Nursing Process, Role and Skills (4)
2. NURS 201. Intermediate Care Laboratory: Beginning Nursing Process, Role and Skills (3)
3. NURS 204. Intermediate Care: Middlescent and Older Adults (3)
4. NURS 205. Intermediate Care Laboratory: Middlescent and Older Adults (3)
5. NURS 220. Acute Care: Advanced Nursing Process, Role and Skills (3)
6. NURS 221. Acute Care Laboratory: Advanced Nursing Process, Role and Skills (4)

Junior Nursing Courses

1. NURS 316. Health Assessment (4)
2. NURS 322. Acute Care: Continuation of Advanced Nursing Process, Role and Skills (3)
3. NURS 323. Acute Care Laboratory: Continuation of Advanced Nursing Process, Role and Skills (4)
4. NURS 332. Acute Care: Families with Children (4)
5. NURS 333. Acute Care Laboratory: Families with Children (3)
6. NURS 334. Acute Care: Childbearing Families (4)
7. NURS 335. Acute Care Laboratory: Childbearing Families (3)
8. NURS 340. Theories of Nursing (2)
9. Four units chosen from:
 - NURS 380. Pathophysiological Concepts as Applied to Nursing Practice (4)
 - HSCI 367. Human Disease Mechanisms (4)

Senior Nursing Courses

1. NURS 400. Ambulatory Care: Middlescent and Older Individuals and Families (4)
2. NURS 401. Ambulatory Care Laboratory: Middlescent and Older Individuals and Families (4)
3. NURS 404. Leadership in Nursing: Nursing Management (4)
4. NURS 405. Leadership in Nursing: Laboratory (4)
5. NURS 406. Ambulatory Care: Young Individuals and Families (4)
6. NURS 407. Ambulatory Care Laboratory: Young Individuals and Families (4)
7. NURS 422. Nursing Research (4)
8. NURS 425. Issues and Trends in Nursing and Health Care (2)

Students must also meet the university's general education requirements. Twenty units of the major are part of the general education requirements.

B.S. IN NURSING - RN

Requirements (180 units)

Total units required for graduation: 180

Department Regulations

1. Admission requirements
 - a. A grade point average of 3.0 ("B") or better in prerequisite support courses listed below;
 - b. A grade point average of 3.0 ("B") or better in A.D.N.;
 - c. Submission of RN screening form and all transcripts;
 - d. Application to CSUSB with second set of transcripts;
 - e. Students who are close to these standards may be admissible upon remediation.
2. This program assumes all lower-division general education requirements have been met. The IGETC is valuable, but not required. Some lower division general education courses can be completed while the BSN program is in progress, but this will extend time to graduation.
3. Sixteen units of upper-division General Education courses are required (see [Page 73](#) for further information).
4. Students may transfer in a maximum of 105 lower-division coursework units towards the major.
5. Students may need to take additional units at CSUSB to satisfy the 180-unit requirement.

Degree Requirements

Prerequisite support courses

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. COMM 120. Oral Communication (4)
5. One critical thinking course that satisfies category A4 in the General Education program.
6. ENG 101. Freshman Composition (4)
7. One math course that satisfies category A.3/B.1 in the General Education Program

Additional lower-division support courses

1. CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
2. CHEM 207. Fundamentals of Chemistry III: Biochemistry (5)
3. PSYC 201. Developmental Psychology (4)

Upper-division support courses required after admission to the nursing major

1. MATH 305. Statistics: Hypothesis Testing and Estimation (4)
2. One integrative capstone course that meets the multicultural/gender requirement in the general education program (4)

Sophomore Nursing Courses

1. Students holding a current California RN license will receive 20 units of advanced placement transfer credit for lower-division nursing courses.

Junior Nursing Courses

1. NURS 316. Health Assessment (4)
2. NURS 340. Theories of Nursing (2)
3. Four units chosen from:
 - NURS 380. Pathophysiological Concepts as Applied to Nursing Practice (4)
 - HSCI 367. Human Disease Mechanisms (4)

Senior Nursing Courses

1. NURS 404. Leadership in Nursing: Nursing Management (4)
2. NURS 405. Leadership in Nursing: Laboratory (4)
3. NURS 406. Ambulatory Care: Young Individuals and Families (4)
4. NURS 407. Ambulatory Care Laboratory: Young Individuals and Families (4)
5. NURS 410. Transitional Concepts for Professional Nursing (4)
6. NURS 411. Transitional Concepts for Professional Nursing: Laboratory (4)
7. NURS 422. Nursing Research (4)
8. NURS 425. Issues and Trends in Nursing and Health Care (2)

Students must also meet the university's general education requirements. Twenty units of the major are part of the general education requirements.

DEPARTMENTAL HONORS

A graduating senior will be awarded departmental honors in nursing after meeting the following requirements:

1. Achieve a minimum grade point average of 3.5 in all upper-division courses taken at the university;
2. Recommendation by the faculty of the Department of Nursing.

COURSE OFFERINGS IN NURSING (NURS)

Lower Division

200. Intermediate Care: Beginning Nursing Process, Role and Skills (F)

Introduction to nursing process and nursing role, including basic cognitive, psychomotor, interpersonal, and assessment skills. Prerequisites: sophomore standing, admission to nursing major, and consent of department; BIOL 220, 223 and 224; completion of G.E. requirements in mathematics or passing score on the Entry Level Mathematics examination; ENG 101; COMM 120. Corequisite: NURS 201. (4 units)

201. Intermediate Care Laboratory: Beginning Nursing Process, Role and Skills (F)

Application of knowledge and skills from NURS 200. Care of clients in various settings who need a moderate level of nursing care. Prerequisites: admission to nursing major and consent of department. Corequisite: NURS 200. (3 units)

204. Intermediate Care: Middle-aged and Older Adults (W)

Theory and application of nursing process and nursing role with middle-aged and older individuals and families of diverse psychosocial and cultural backgrounds. Prerequisites: NURS 200 and consent of department. Corequisite: NURS 205. (3 units)

205. Intermediate Care Laboratory: Middle-aged and Older Adults (W)

Clinical experience in settings emphasizing physical and emotional care of middle-aged and older adults needing a moderate level of care. Prerequisite: consent of department. Corequisite: NURS 204. (3 units)

220. Acute Care: Advanced Nursing Process, Role and Skills (S)

Principles of assessment and care of acutely ill individuals of various ages and psychosocial and cultural backgrounds. Pathophysiology as basis of nursing assessment and care. Formerly NURS 320. Prerequisites: CHEM 205, 206, 207, NURS 204 and consent of department. Corequisite: NURS 221. (3 units)

221. Acute Care Laboratory: Advanced Nursing Process, Role and Skills (S)

Application of knowledge and skills from NURS 220. Care of clients in subacute and acute care settings. Formerly NURS 321. Prerequisite: consent of department. Corequisite: NURS 220. (4 units)

Upper Division

316. Health Assessment

Determining and measuring variables relevant to assessment of psychosocial and physical health. Formerly NURS 223. Two hours lecture and four hours laboratory. Prerequisites: NURS 200 and 201. (4 units)

322. Acute Care: Continuation of Advanced Nursing Process, Role and Skills (F)

Continuation of principles of assessment and care of acutely ill individuals of various ages and psychosocial and cultural backgrounds. Pathophysiology as basis of nursing assessment and care. Prerequisites: NURS 220 and consent of department. Corequisite: NURS 323. (3 units)

323. Acute Care Laboratory: Continuation of Advanced Nursing Process, Role and Skills (F)

Application of knowledge and skills from NURS 322. Care of clients in subacute and acute care settings. Prerequisite: consent of department. Corequisite: NURS 322. (4 units)

332. Acute Care: Families with Children

Theory and application of nursing process and nursing role with families from diverse psychosocial and cultural backgrounds and their children. Formerly NURS 330. Prerequisites: NURS 322, 323 and consent of department. Corequisite: NURS 333. (4 units)

333. Acute Care Laboratory: Families with Children

Clinical experience in settings emphasizing care of families with children needing a moderate level of care. Formerly NURS 331. Prerequisites: NURS 322, 323 and consent of department. Corequisite: NURS 332. (3 units)

334. Acute Care: Childbearing Families

Theory and application of nursing process and nursing role with childbearing families from diverse psychosocial and cultural backgrounds. Formerly NURS 330. Prerequisites: NURS 332, 333 and consent of department. Corequisite: NURS 335. (4 units)

335. Acute Care Laboratory: Childbearing Families

Clinical experience in settings emphasizing care of childbearing families needing a moderate level of care. Formerly NURS 331. Prerequisites: NURS 332, 333 and consent of department. Corequisite: NURS 334. (3 units)

340. Theories of Nursing (S)

Introduction to various conceptual models of nursing. Implications of these models for nursing. Formerly NURS 450. Prerequisites: NURS 322, 323 and consent of department. (2 units)

375. Cooperative Education

Application of nursing concepts and skills through supervised work in a hospital or other health care agency. Sixteen hours of supervised work and a two-hour group meeting are required each week. Open only to non-licensed nursing majors. May be taken quarterly, but only four units may be applied toward the degree. Graded credit/no credit. Prerequisites: NURS 200, 201 and departmental approval of a standard application filed in advance of the quarter in which the course is to be taken. (2 units)

380. Pathophysiological Concepts as Applied to Nursing Practice

Pathophysiological concepts as applied to nursing practice with an emphasis on the body's response to the disease process. Prerequisites: BIOL 223, 224 and consent of department. Corequisite: CHEM 207. (4 units)

396. Selected Topics in Nursing

Selected nursing topics with specific focus. May be repeated for credit as topics change. Prerequisite: consent of department chair prior to registration. (2 units)

399. Community Service Project (FWS)

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of four units. No more than four units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisites: submission of a project proposal and consent of department chair prior to registration. (Credit to be arranged: 1 or 2 units)

400. Ambulatory Care: Middlecent and Older Individuals and Families (F)

Principles of health promotion and chronic illness care with mentally and physically ill middlecent and older adults with diverse psychosocial and cultural backgrounds. Prerequisites: NURS 334, 335 and consent of department. Corequisite: NURS 401. (4 units)

401. Ambulatory Care Laboratory: Middlecent and Older Individuals and Families (F)

Application of knowledge and skills from NURS 400. Clinical experience in various ambulatory care settings with mentally and physically ill middlecent and older adults. Prerequisites: NURS 334, 335 and consent of department. Corequisite: NURS 400. (4 units)

404. Leadership in Nursing: Nursing Management (S)

Concepts of leadership in innovative nursing roles. Synthesis of knowledge and skills in critical thinking, communication and therapeutic nursing interventions as a leader and change agent on the interdisciplinary health team. Prerequisites: NURS 406, 407 and consent of department. Corequisite: NURS 405. (4 units)

405. Leadership in Nursing: Laboratory (S)

Clinical experience focusing on innovative nursing roles in various settings. Prerequisite: NURS 406, 407 and consent of department. Corequisite: NURS 404. (4 units)

406. Ambulatory Care: Young Individuals and Families

Principles of health promotion and chronic illness care with young individuals and families of diverse psychosocial and cultural backgrounds. Formerly NURS 324. Prerequisites: NURS 400, 401 and consent of department. Corequisite: NURS 407. (4 units)

407. Ambulatory Care Laboratory: Young Individuals and Families

Application of knowledge and skills from NURS 406. Clinical experience in community health agencies with young individuals and families. Formerly NURS 325. Prerequisites: NURS 400, 401 and consent of department. Corequisite: NURS 406. (4 units)

410. Transitional Concepts for Professional Nursing

Socialization and development into professional nursing roles. Exploration of current theories, concepts and health issues for populations with diverse psychosocial and cultural backgrounds. Prerequisites: transfer RN nursing student and consent of the department. Corequisite: NURS 411. (4 units)

411. Transitional Concepts for Professional Nursing: Laboratory

Practice of professional nursing roles with populations of diverse psychosocial and cultural backgrounds. Prerequisites: Active RN license, professional malpractice insurance and consent of the department. Corequisite: NURS 410. (4 units)

422. Nursing Research (F)

Introduction to the research process and analysis of studies relevant to nursing. Prerequisites: NURS 340, MATH 305 and consent of department. (4 units)

425. Issues and Trends in Nursing and Health Care (W)

Evolution of professional nursing. Trends in health care and nursing. Impact of ethical, legal, political, and economic forces upon health care and nursing. Formerly NURS 350. Prerequisites: NURS 422 and consent of department. (2 units)

454. Anatomical/Physiological Processes of Aging

Anatomical and physiological changes occurring in the aging person. Prerequisites: BIOL 222 or 223 and 224 and upper-division standing. (4 units)

455. Chronic Diseases of the Aging Population

Clinical problems of the aging person including diagnostic and therapeutic aspects. Prerequisites: NURS 454 and upper-division standing. (4 units)

456. Adaptation to Chronic Illness

Nurses role in development and enhancement of health-seeking behaviors in response to physiological and psychosocial stressors associated with chronic illness. Prerequisite: upper-division standing. (4 units)

457. Health Services for the Non-Institutionalized Aging Person

Role of the nurse as case manager mobilizing and coordinating sick care, health maintenance and rehabilitation of the aged person in the home. Prerequisite: NURS 454. (2 units)

500. Advanced Topics in Nursing

Selected advanced nursing topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change. Prerequisite: upper-division standing or consent of instructor. (4 units)

502. Health Assessment of Children and Adolescents

Application of principles of physical assessment and normal growth and development to the determination of health status of children and adolescents. Serves as a foundation for nursing interventions to promote health and prevent disease. Two hours lecture and six hours laboratory. Prerequisite: consent of department. (4 units)

503. Principles of School Nursing Practice

Role of the school nurse in relation to current accepted practice in school health programs as pertaining to the health needs of school children and their communities. Prerequisite: consent of department. (4 units)

504. School Nursing Internship

Supervised practice in public school nursing working with credentialed school nurses at the elementary and secondary level. Course taken at the completion of the program. Graded credit/no credit. Prerequisite: consent of department. (4 units)

595. Independent Study

Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation. Prerequisites: NURS 422, senior standing, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

597. Issues and Trends in Health Care

Major issues and trends affecting availability, allocation and access to health care resources for diverse populations. Issues such as poverty, homelessness, violence, substance abuse, and changing disease patterns are explored in relation to health care reform and the current social and political environment. Formerly NSCI 597. Prerequisite: senior or graduate standing. (4 units)

NUTRITION AND FOOD SCIENCES

Approved as a Didactic Program in Dietetics, by the American Dietetic Association (ADA)

Department of Health Science and Human Ecology

Health and Physical Education Building, Room 230
880-5340

Bachelor of Science

Nutrition and Food Sciences

Minor

Nutrition and Food Sciences

FACULTY: Dorothy Chen-Maynard (Coordinator),
Joe Hughes

The Bachelor of Science in Nutrition and Food Sciences is appropriate for students preparing for careers dealing with foods, nutrition or dietetics. After graduation, students can apply to ADA accredited internship programs to become a registered dietitian (RD). Also, graduates may work as a dietary aide, and in many other food and nutrition related jobs.

B.S. IN NUTRITION AND FOOD SCIENCES

Requirements (113 units)

Total units required for graduation: 186

Requirements for the B.S. in Nutrition and Food Sciences:

Note: Certain required courses also apply in the university's general education program (refer to [Page 73](#)).

Lower-division requirements (51 units)

1. BIOL 220. Principles of Microbiology (5)
2. BIOL 223. Human Physiology and Anatomy I (5)
3. BIOL 224. Human Physiology and Anatomy II (5)
4. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
5. CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
6. CHEM 207. Fundamentals of Chemistry III: Biochemistry (5)
7. CSCI 123. Using Computer Software (2)
8. Four units chosen from:
 - ECON 104. Economics of Social Issues (4)
 - ECON 200. Principles of Microeconomics (4)
 - ECON 202. Principles of Macroeconomics (4)
9. HSCI 120. Health and Society: An Ecological Approach (5)
10. HSCI 225. The Dietetic Profession (1)
11. HSCI 245. Introduction to Food Science (5)
12. PSYC 100. Introduction to Psychology (4)

Upper-division requirements (62 units)

1. HSCI 302. Instructional Methods in Health Education (4)
2. HSCI 345. Advanced Food Science (5)
3. HSCI 350. Principles of Nutrition (4)
4. HSCI 351. Nutritional Biochemistry and Metabolism (4)
5. HSCI 365. Nutrition Throughout the Life Cycle (4)
6. HSCI 383. Advanced Nutrition (2)
7. HSCI 384. Research Methodology in Nutrition (2)
8. HSCI 443. Medical Nutrition Therapy I (4)
9. HSCI 444. Medical Nutrition Therapy II (4)
10. HSCI 445. Community Nutrition (4)
11. HSCI 465. Foodservice Production and Procurement (5)
11. HSCI 467. Foodservice Systems Management (4)
12. Four units chosen from:
 - MGMT 302. Management and Organizational Behavior (4)
 - PSYC 302. Management and Organizational Behavior (4)
13. MATH 305. Statistics: Hypothesis Testing and Estimation (4)
14. NSCI 306. Expository Writing for the Natural Sciences (4)
15. Four units chosen from an upper-division health science course.

MINOR IN NUTRITION AND FOOD SCIENCES

Requirements (40 units)

Requirements for a minor in Nutrition and Food Sciences

Lower-division requirements (20 units)

1. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
2. CHEM 206. Fundamentals of Chemistry II: Organic Chemistry (5)
3. CHEM 207. Fundamentals of Chemistry III: Biochemistry (5)
4. HSCI 245. Introduction to Food Science (5)

Upper-division requirements (20 units)

1. HSCI 350. Principles of Nutrition (4)
2. Sixteen units of upper-division nutrition and food courses to be chosen in consultation with an advisor.

Note: Refer to [Page 212](#) for complete descriptions of HSCI course descriptions.

OPERATIONS MANAGEMENT

Department of Information and Decision Sciences

Jack Brown Hall, Room 460
880-5723

FACULTY: Anand Bhatia, Harold Dyck, Kamvar Farahbod, Jack McDonnell (Emeritus), Barbara Sirotnik, Jay Varzandeh

The university offers concentrations in operations management within the Bachelor of Arts in Administration and the Master of Business Administration. A concentration in management science is offered within the Bachelor of Arts in Administration. The details of these programs are listed under Administration on [Page 79](#) and the Master of Business Administration on [Page 379](#). The courses listed below are offered in support of these programs. Further information is available from the Department of Information and Decision Sciences.

COURSE OFFERINGS IN OPERATIONS MANAGEMENT (OM)

Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 89.9 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

304. Principles of Operations Management

Introduction to operations management concepts and techniques. Methods that aid the manager in making rational decisions in manufacturing and service industries are discussed. Emphasis is on the application of models to managerial decision making. Formerly MSCI 304. Prerequisites: MATH 110 or 120 and MSCI 210. (4 units)

466. Operations Planning and Control

An analytical approach to traditional and modern concepts in operations analysis and planning. Includes application of techniques to accomplish the organization's mission by using productive resources in the most efficient and effective ways possible. Formerly MSCI 466. Prerequisite: OM 304. (4 units)

468. Operations Management and Design

Designing operations strategy and implementation of organizational configuration to obtain a competitive edge through product-service conversion systems, capacity planning and utilization, logistics and supply chain networks, and choice of technology. Formerly MSCI 468. Prerequisite: OM 304. (4 units)

470. Supply Chain Management

A comprehensive study of all activities and processes to supply a product or service to a final customer. Topics include: purchasing, logistics and supply chain optimization, inventory control, warehouse and distribution management. Prerequisite: OM 304. (4 units)

480. Quality Management

Description and analysis of quality assurance programs and techniques and their many applications from a total quality management perspective. Topics include quality planning, statistical quality control, quality design and measurement, and management of inspection. Prerequisite: OM 304. (4 units)

575. Internship in Operations Management

Internship in operations management. Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

PHILOSOPHY

Department of Philosophy

University Hall, Room 339
880-5869

Bachelor of Arts

Philosophy

Minor

Philosophy

FACULTY: Jill Buroker, Matthew Davidson, Susan Finsen, Beverly Gallo, Thomas Moody, Chris Naticchia, Tony Roy (Chair)

Philosophy is excellent preparation for a career in law, business, government, journalism and a wide variety of professional areas; and it is excellent preparation for different sorts of graduate and professional study. Philosophy focuses on clear thinking and critical evaluation of ideas. Thus it is excellent training for anyone whose job requires broad perspectives and new and creative ideas. Philosophy does not provide training in specific job tasks; rather, it focuses on basic skills that will prepare you for the more challenging jobs you will encounter as your career advances.

Philosophy is humanity's oldest intellectual discipline; its range of application is broad. Through philosophy one may think about and develop perspectives on topics as diverse as god, science, language, logic, truth, ethics, politics and law. Typically philosophy leaves aside the doing of the religion, science etc. and asks fundamental questions about the nature of and justification for the various perspectives.

B.A. IN PHILOSOPHY

Requirements (53 units)

Total units required for graduation: 180

Requirements for the B.A. in Philosophy:

Upper-division requirements (53 units)

1. History of Philosophy

Eight units chosen from:

- PHIL 317. Ancient Philosophy (4)
- PHIL 318. History of Modern Philosophy: Knowledge and Reality (4)
- PHIL 319. History of Modern Philosophy: Ethics and Politics (4)
- PHIL 410. Advanced Issues in History of Philosophy (4)

2. Logic

Four units chosen from:

- PHIL 300. Predicate Logic (4)
- PHIL 302. Philosophy of Logic and Mathematics (4)
- PHIL 306. Inductive Logic (4)
- PHIL 400. Advanced Issues in Logic (4)

3. Metaphysics/Knowledge

Eight units chosen from:

- PHIL 380. Metaphysics (4)
- PHIL 384. Philosophy of Mind (4)
- PHIL 385. Theory of Knowledge (4)
- PHIL 386. Philosophy of Science (4)
- PHIL 387. Philosophy of Language (4)
- PHIL 485. Advanced Issues in Metaphysics and Knowledge (4)

4. Value theory

Four units chosen from:

- PHIL 350. Ethics (4)
- PHIL 361A. Social and Political Philosophy: Classical Political Theories (4)
- PHIL 361B. Social and Political Philosophy: Themes in Social and Political Philosophy (4)
- PHIL 362. Philosophy of Law (4)
- PHIL 460. Advanced Issues in Value Theory (4)

5. Intensive Study

At least one course at the "Advanced Issues" level (400, 410, 460, 485) must be included among courses used to satisfy the major. Some courses in the above categories may be repeated for credit, however no more than four units from a course that may be repeated for credit can be used in satisfaction of any given category above.

6. Twenty-eight units of electives chosen from philosophy courses. At most, four elective units may be at the 100- or 200-level. PHIL 200 must be included among these courses unless it is taken to satisfy the GE Critical Thinking (A4) requirement. Philosophy courses used to satisfy the GE Critical Thinking (A4), Philosophy (C4), and The Whole Person - Social and Psychological Issues (E2) requirements will not count toward the major.

7. PHIL 516. Senior Project (1)

Critical Thinking: Majors need not satisfy the GE Critical Thinking Requirement with PHIL 200; but students who fulfill the requirement with PHIL 200 thereby satisfy the prerequisite for PHIL 300, 302 and 306.

Course Offerings: The Department of Philosophy offers courses required for the major on a regular basis; consult department office or website for the current schedule.

Electives: A major in philosophy is an exceptionally flexible tool. In any case, students should consult with an advisor in planning their course of study. The following are some generic suggestions:

Graduate Study in Philosophy: Students planning to apply for graduate programs in philosophy should complete eight units of additional upper-division elective philosophy course work and should include among their electives three or four courses from categories 1 through 4 above not taken to satisfy those requirements. Students should also complete a minimum of sixteen units, or equivalent proficiency, in one foreign language (preferably French, German, Latin, or Greek), with attainment of demonstrable reading skill.

Legal Careers: Majors planning to apply for law school or to enter related fields are encouraged to include among their electives at least three courses from among PHIL 350, 361A, 361B, 362A, 362B, 362C and 460.

Medical/Helping Professions: Students who will pursue careers in medical and helping professions are encouraged to include among their electives at least three courses from among PHIL 191, 350, 354, 355 and 460.

Business or Economics: Students who will pursue careers in business or economics are encouraged to include among their electives at least three courses from among PHIL 191, 350, 356, 358, 359, 361A, 361B and 460.

Cognitive Science/Artificial Intelligence: Majors who will pursue careers in these and related fields are encouraged to include among their electives at least three courses from among PHIL 300, 302, 384A, 384B, 400 and 485.

Religion and Theology: Majors who will enter a seminary or pursue related activities could include among their electives PHIL 192, 372 and one or more of 373 or 375.

These may also suggest ways that a minor in Philosophy could be tailored to specific interests.

MINOR IN PHILOSOPHY

Requirements (32 units)

Requirements for a minor in Philosophy:

Upper-division requirements (32 units)

1. History of Philosophy
Eight units chosen from:
 - PHIL 317. Ancient Philosophy (4)
 - PHIL 318. History of Modern Philosophy: Knowledge and Reality (4)
 - PHIL 319. History of Late Modern Philosophy: Ethics and Politics (4)
 - PHIL 410. Advanced Issues in History of Philosophy (4)
2. Metaphysics/Knowledge
Eight units chosen from:
 - PHIL 380. Metaphysics (4)
 - PHIL 384. Philosophy of Mind (4)
 - PHIL 385. Theory of Knowledge (4)
 - PHIL 386. Philosophy of Science (4)
 - PHIL 387. Philosophy of Language (4)
 - PHIL 485. Advanced Issues in Metaphysics and Knowledge (4)
3. Value theory
Four units chosen from:
 - PHIL 350. Ethics (4)
 - PHIL 361A. Social and Political Philosophy: Classical Political Theories (4)
 - PHIL 361B. Social and Political Philosophy: Themes in Social and Political Philosophy (4)
 - PHIL 362. Philosophy of Law (4)
 - PHIL 460. Advanced Issues in Value Theory (4)
4. Twelve units of electives chosen from among philosophy courses. At most, four elective units may be at the 100- or 200-level. PHIL 200 must be included among these courses unless it is taken to satisfy the GE Critical Thinking (A4) requirement. Philosophy courses used to satisfy the GE Critical Thinking (A4), Philosophy (C4), and The Whole Person - Social and Psychological Issues (E2) requirements will not count toward the minor.

DEPARTMENTAL HONORS

To attain departmental honors, a student must write a successful honors thesis under the guidance of a faculty committee. To qualify for the honors program a student must have:

1. an overall grade point average of 3.0 ("B");
2. a grade point average of 3.5 in philosophy courses;
3. at least five philosophy courses must have been taken at California State University, San Bernardino, one of which may be lower-division, not counting courses satisfying the general education requirements.

Application for the honors program must be made in writing to the department three quarters before graduation.

COURSE OFFERINGS IN PHILOSOPHY (PHIL)

Lower Division

101. Moral Choices in Life

Fundamentals of ethical reasoning. Introduction to moral theories and methods of moral decision making. Focus on such issues as ethics in the workplace, responsible citizenship, euthanasia, and responsibilities to the homeless, the environment and animals. (GE=E.2) (2 units)

105. Critical Thinking Through Argument Analysis

Analysis of various kinds of reasoning employed in everyday life and in more specialized contexts, to develop each student's skill in understanding and using carefully constructed arguments. Illustrations will include materials drawn from contemporary issues. (GE=A.4) (4 units)

190. Introduction to Philosophical Issues

An introduction to philosophical thinking by means of reading, discussing and writing about selected philosophical works. Students are encouraged to develop their own philosophical views in a critical exchange with the views of the philosophers studied. Prerequisite: ENG 101 or equivalent. (GE=C.4) (PHIL 190=CAN PHIL 2) (4 units)

191. Introduction to Ethics

An introduction to ethics and moral theory. Philosophical approaches to questions of right and wrong, duty and obligation, good and evil. Deals with both individual morality and social morality. Formerly PHIL 250. Prerequisite: ENG 101 or equivalent. (GE=C.4) (4 units)

192. Introduction to Philosophy of Religion

Introductory treatment of philosophical issues raised by religion and religious belief; discussion of issues such as relations between faith, belief and knowledge, arguments for the existence of god, the problem of evil, and immortality. Formerly PHIL 270. Prerequisite: ENG 101 or equivalent. (GE=C.4) (4 units)

193. Introduction to Eastern Philosophy

Introduction to the ways in which Buddhism, Hinduism, Taoism and Confucianism view human life and reality. Formerly PHIL 275. Prerequisite: ENG 101 or equivalent. (GE=C.4) (4 units)

194. Introduction to Knowledge and Reality

Inquiry into philosophical presuppositions underlying common sense and scientific views of knowledge and reality. Possible topics include: Was the universe created? Is the world as it appears to us? Are humans merely complex machines or do they have souls? How do we know what we know? Formerly PHIL 280. Prerequisite: ENG 101 or equivalent. (GE=C.4) (4 units)

200. Critical Thinking Through Symbolic Logic

Introduction to logic and its application to everyday reasoning. Emphasis on formal methods and modern symbolic logic. Formerly PHIL 205. (GE=A.4) (4 units)

Upper Division**300. Predicate Logic**

Introduction to the standard predicate calculus. Some meta-theory. This course requires some basic mathematical or logical background. Prerequisite: PHIL 200 or consent of instructor. (4 units)

302. Philosophy of Logic and Mathematics

Philosophical issues raised by logic and mathematics. Discussion of issues such as the nature of logical and mathematical truth, the relation between logic, mathematics and the world, and justifications for logical and mathematical systems. Prerequisites: MATH 110 or equivalent, PHIL 200, and satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

305. Critical and Analytic Reasoning

Review of logical notions combinatorial methods introduced in many critical reasoning courses (e.g. PHIL 200); extension of those notions and methods to increasingly complex problems, including problems of the sort encountered in analytic portions of the GRE and LSAT exams. Formerly PHIL 405. Prerequisites: satisfaction of the General Education Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

306. Inductive Logic

Principles of reasoning underlying the scientific method. Topics include hypothesis formation and testing, foundations and philosophical interpretation of probability and decision theory. Prerequisites: PHIL 200, satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

317. Ancient Philosophy

Introduction to the origin of Western philosophy, as represented in the works of the Pre-Socratics, Plato, Aristotle, the Stoics, Epicureans, Sceptics and Mystics. Formerly PHIL 311. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

318. History of Modern Philosophy: Knowledge and Reality

Major philosophical developments in Western philosophy from Descartes through Kant, focusing on the nature of knowledge and reality. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

319. History of Modern Philosophy: Ethics and Politics

Major philosophical developments in Western philosophy from Machiavelli to Mill, focusing on ethics and political theory. Formerly PHIL 313. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

320. Philosophy of Education

Inquiry into the nature of education and its role in human life, and the role of individual and social values. Readings from classical and contemporary philosophers. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

325. Philosophy and the Arts

Exploration of theories concerning the nature of the arts and their role in human life. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

350. Ethics

The nature of the meaningful life and its relation to concepts of right and wrong explored through various moral theories. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

354. Ethics in the Helping Professions

Consideration of ethical problems encountered in the helping professions; such as privacy, paternalism, respect, consent, manipulation, fairness, truthfulness, etc. Formerly PHIL 368. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

355. Contemporary Ethical Issues

Consideration of moral problems intensified by the rapid pace of social, economic and technological changes: genetic engineering, euthanasia, "the new sexual ethics," abortion and the right to privacy. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

356. Environmental Ethics

Examination of philosophical theories of humans' moral obligations to the environment and the implications for current environmental issues such as pollution, global warming, species extinction and our obligations to future generations. Formerly PHIL 366. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

358. Business Ethics

A study of moral issues raised by business practices in a free enterprise system, with emphasis on developing ethical reasoning and decision-making skills. Provides perspectives on ethical decision making in areas such as: international relations, employee and community relations, environmental policy and advertising. Formerly PHIL 369. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

359. Philosophy and Economics

Study of issues at the intersection of economics and moral and political philosophy, e.g., classic accounts of the nature of value, the nature of justice, the nature of rationality, the measurability of human well-being. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

361. Social and Political Philosophy

An examination of major perspectives on how societies should be organized. Study of central issues such as legitimacy of government, and rights versus obligations; or of major concepts such as justice, equality, rights, class, patriarchy and power. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements.

A. Classical political theories. (4 units)

B. Themes in social and political philosophy. (4 units)

362. Philosophy of Law

A study of philosophical problems raised by the law, such as the nature and validity of the law, and concepts of justice; the relation between law and morality; and how rights are or ought to be reflected in the law. Formerly PHIL 466. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements.

A. The Concept of Law (4 units)

B. Morality and the Law (4 units)

C. Rights and the Law (4 units)

363. Philosophy of Human Nature

A study of theories of human nature and the factors motivating human behavior, with focus on such questions as whether human nature is changeable, the analysis of aggression, and the roles of reason, emotion and instinct. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

364. Philosophy of Race and Ethnicity

Study of theories of equality and justice as they apply to justice, affirmative action, multiculturalism, group differences and the intersections of race with gender and class. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (GE=G.2) (4 units)

367. Philosophy and Sexual Politics

Philosophical theories of male and female nature, their implications concerning equality and rights, the nature of the family, and social roles of men and women. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (GE=G.2) (4 units)

372. Philosophy of Religion

Problems concerned with the existence and attributes of God or gods, the significance of religious experience and its varieties, and the rationality of faith. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

373. World Religions

Study of the doctrines and practices of the world's major religions and the philosophic issues raised by their diversity. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

375. Classics of Eastern Thought

Study of selected Eastern masterpieces such as the Bhagavad Gita, The Tao of Lao Tzu and the Dhammapada. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

380. Metaphysics

Problems relating to existence. Includes issues such as realism and anti-realism, the nature of modal truth, free-will and determinism, the mind-body problem, and the nature of identity. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

384. Philosophy of Mind

Various theories about the nature of the mind and the relation of the mind to the body and behavior. Focus will be on different approaches to psychology (behaviorism, functionalism, etc.) or on the consequences of theories of the mind for the question of whether computers can think. May be repeated for credit as topics change. Formerly PHIL 480. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements.

A. Philosophical Psychology (4 units)

B. Minds and Machines (4 units)

385. Theory of Knowledge

Problems concerning acquiring and justifying knowledge, including the roles of sense perception and reason, the distinction between knowledge and belief, the nature of evidence, and the concepts of truth and certainty. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

386. Philosophy of Science

Foundations of science, including the nature of scientific methodology, explanation, concept formation, and the structure of theories, using case studies from the natural sciences and social sciences. Formerly PHIL 316. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

387. Philosophy of Language

Inquiry into the syntactic, semantic and pragmatic dimensions of language, focusing on different theories of these components, and the philosophical implications of these theories. Formerly PHIL 484. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

400. Advanced Issues in Logic

Discussion of issues such as axiomatic logic, proofs of soundness and completeness, multi-valued logics, modal logics and/or other alternative logics. May be repeated for credit as topics change. Prerequisite: PHIL 300 or consent of instructor. (4 units)

410. Advanced Issues in History of Philosophy

An intensive study of one or more philosophical figures. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses, and satisfaction of the GE upper-division writing requirement. (4 units)

460. Advanced Issues in Value Theory

Intensive study of topics in ethics, social philosophy and/or political philosophy. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses, and satisfaction of the GE upper-division writing requirement (F). (4 units)

485. Advanced Issues in Metaphysics and Knowledge

Intensive study of topics in metaphysics, philosophy of language, theory of knowledge and/or philosophy of science. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses, and satisfaction of the GE upper-division writing requirement (F). (4 units)

490. Philosophical Topics

Study of a specially selected figure, movement, problem or theory in philosophy. May be repeated for credit as topics change. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

516. Senior Project

Preparation and submission of a portfolio of writing representing successful work in the philosophy major, accompanied by a reflective essay showing the extent to which the student has satisfied the objectives and goals of the major. Prerequisite: completion of 135 units, including 36 units of the philosophy major. Graded credit/no credit. (Student will receive a satisfactory credit if not completed in one quarter.) (1 unit)

575. Internship in Philosophy

Supervised intensive work of an applied nature that requires advanced skills in philosophy. A total of eight units may be applied toward graduation; a total of four units may be applied to the major. Generally assumes thirty hours of work/study per unit of credit. Graded credit/no credit. Prerequisite: consent of instructor. (Credit to be arranged: 2 to 5 units)

595. Independent Study

Intensive study of topics not offered in other existing philosophy courses. No more than four units of PHIL 595 can apply towards the philosophy major without departmental approval. Prerequisites: a minimum grade point average of 3.0, consent of instructor and departmental approval of a project submitted on a standard application filed no later than the end of the first week of classes. (Credit to be arranged: 2 to 4 units)

PHYSICS

Department of Physics

Physical Sciences Building, Room 119
880-5397

Bachelor of Arts

Physics

Bachelor of Science

Physics

Applied Physics

Teaching Credential Preparation Program

Physics

Minor

Physics

Applied Physics

FACULTY: Leo Connolly, Paul Dixon, Karen Kolehmainen (Chair), Paul Renteln, Javier Torner, Timothy Usher

Traditionally, physics majors have gone on to graduate work in physics, high school teaching, or employment in industrial or government laboratories. Other opportunities which have recently become interesting for physics graduates include atmospheric physics (including air pollution studies), geophysics, radiation safety, oceanography, astrophysics, technical administration, biophysics, computer science and medical instrumentation development.

The program for a bachelor of arts degree in physics provides basic knowledge in the main subject areas of physics as well as an opportunity for students to elect a considerable number of courses in other disciplines. This is a good choice for students planning careers in high school teaching. The bachelor of science program includes additional course work in physics and related fields which further prepares a student for employment or graduate work.

The Applied Physics option is designed to prepare students for direct employment in high-technology firms upon graduation. For traditional design tasks, high-technology firms typically hire applied physicists with a flexible and creative technical ability who can address a wide range of technical problems and develop an experimental system to attack problems. A solid understanding of theoretical physics across the curriculum is required and the ability to design, interface and control experimental apparatus. Because the tasks that applied physicists perform in the industrial environment are primarily experimental in nature, this option includes a number of laboratory courses in addition to the theory curriculum core: PHYS 150. Introductory Electronics; CSCI 201. Computer Science I; PHYS 350. Data Acquisition and Control; PHYS 352. Advanced Electronics; and PHYS 430. Advanced Physics Laboratory. The courses in the applied physics option prepare students to function effectively in the computer-based experimental environment that they face in research and development, testing or process control.

Pre-engineering - Although CSU San Bernardino does not offer an engineering degree, the campus does provide a

pre-engineering program that allows the student to complete the first two years of courses generic to engineering. The student may then transfer to an accredited engineering program of their choice. The following courses have been recommended as appropriate transfer courses: CHEM 215, 216, MATH 211, 212, 213, 251, 252, PHYS 221, 222, 223, 234, 235 and selected courses in computer science and general education.

Please call the department office for advising if you are considering a physics or pre-engineering major.

B.A. IN PHYSICS

Requirements (87 units)

Total units required for graduation: 180

Requirements for the B.A. in Physics:

Lower-division requirements (53 units)

1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
3. MATH 211. Basic Concepts of Calculus (4)
4. MATH 212. Calculus II (4)
5. MATH 213. Calculus III (4)
6. MATH 251. Multivariable Calculus I (4)
7. MATH 252. Multivariable Calculus II (4)
8. PHYS 221. General Physics I (5)
9. PHYS 222. General Physics II (5)
10. PHYS 223. General Physics III (5)
11. PHYS 224. General Physics IV (3)
12. PHYS 228. General Physics V (3)

Upper-division requirements (26 units)

1. MATH 331. Linear Algebra (4)
2. PHYS 306. Intermediate Classical Mechanics (4)
3. PHYS 313. Electrodynamics (4)
4. PHYS 322. Quantum Mechanics (4)
5. PHYS 324. Statistical and Thermal Physics (4)
6. PHYS 373. Mathematical Methods of Physics I (4)
7. PHYS 430. Advanced Physics Laboratory (2)

Elective course work (8 units)

1. Eight units chosen from upper-division physics courses selected with the approval of the department:
 - PHYS 315. Introduction to Modern Optics (4)
 - PHYS 370. Introduction to Astrophysics (4)
 - PHYS 406. Advanced Mechanics (4)
 - PHYS 414. Advanced Electrodynamics (4)
 - PHYS 422. Intermediate Quantum Physics (4)
 - PHYS 450. Introduction to Solid State Physics (4)
 - PHYS 461. Introduction to Nuclear Physics (4)
 - PHYS 463. Introduction to Elementary Particle Physics (4)
 - PHYS 473. Mathematical Methods of Physics II (4)
 - PHYS 480A. Topics in Classical Physics: Mechanics (4)
 - PHYS 480B. Topics in Classical Physics: Electrodynamics (4)
 - PHYS 485. Seminar: Topics in Contemporary Physics (2)

- PHYS 573. Mathematical Methods of Physics III (4)
 PHYS 590. Physics Seminar (1)
 PHYS 595. Independent Study (1-6)

B.S. IN PHYSICS

Requirements (109 units)

Total units required for graduation: 186

Requirements for the B.S. in Physics:

Lower-division requirements (53 units)

- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- MATH 211. Basic Concepts of Calculus (4)
- MATH 212. Calculus II (4)
- MATH 213. Calculus III (4)
- MATH 251. Multivariable Calculus I (4)
- MATH 252. Multivariable Calculus II (4)
- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)
- PHYS 224. General Physics IV (3)
- PHYS 228. General Physics V (3)

Upper-division requirements (30 units)

- MATH 331. Linear Algebra (4)
- PHYS 306. Intermediate Classical Mechanics (4)
- PHYS 313. Electrodynamics (4)
- PHYS 322. Quantum Mechanics (4)
- PHYS 324. Statistical and Thermal Physics (4)
- PHYS 373. Mathematical Methods of Physics I (4)
- PHYS 414. Advanced Electrodynamics (4)
- PHYS 430. Advanced Physics Laboratory (2)

Elective course work (26 units)

- Eighteen units chosen from upper-division physics courses selected with the approval of the department:
 - PHYS 315. Introduction to Modern Optics (4)
 - PHYS 370. Introduction to Astrophysics (4)
 - PHYS 406. Advanced Mechanics (4)
 - PHYS 422. Intermediate Quantum Physics (4)
 - PHYS 450. Introduction to Solid State Physics (4)
 - PHYS 461. Introduction to Nuclear Physics (4)
 - PHYS 463. Introduction to Elementary Particle Physics (4)
 - PHYS 473. Mathematical Methods of Physics II (4)
 - PHYS 480A. Topics in Classical Physics: Mechanics (4)
 - PHYS 480B. Topics in Classical Physics: Electrodynamics (4)
 - PHYS 485. Seminar: Topics in Contemporary Physics (2)
 - PHYS 573. Mathematical Methods of Physics III (4)
 - PHYS 590. Physics Seminar (1)
 - PHYS 595. Independent Study (1-6)
- Four units of upper-division electives selected from courses in the College of Natural Sciences with the approval of the Physics Department.

- Four units of computer science course work at the 200-level or above selected with the approval of the Physics Department.

B.S. IN PHYSICS - APPLIED PHYSICS OPTION

Requirements (108 units)

Total units required for graduation: 186

Requirements for the B.S. in Physics - Applied Physics Option:

Lower-division requirements (62 units)

- CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- CSCI 201. Computer Science I (4)
- MATH 211. Basic Concepts of Calculus (4)
- MATH 212. Calculus II (4)
- MATH 213. Calculus III (4)
- MATH 251. Multivariable Calculus I (4)
- MATH 252. Multivariable Calculus II (4)
- PHYS 150. Introductory Electronics (5)
- PHYS 221. General Physics I (5)
- PHYS 222. General Physics II (5)
- PHYS 223. General Physics III (5)
- PHYS 224. General Physics IV (3)
- PHYS 228. General Physics V (3)

Upper-division requirements (42 units)

- MATH 331. Linear Algebra (4)
- PHYS 306. Intermediate Classical Mechanics (4)
- PHYS 313. Electrodynamics (4)
- PHYS 322. Quantum Mechanics (4)
- PHYS 324. Statistical and Thermal Physics (4)
- PHYS 350. Data Acquisition and Control (4)
- PHYS 352. Advanced Electronics (4)
- PHYS 373. Mathematical Methods of Physics I (4)
- PHYS 414. Advanced Electrodynamics (4)
- PHYS 430. Advanced Physics Laboratory (2)
- PHYS 450. Introduction to Solid State Physics (4)

Electives (4 units)

- Four units chosen from upper-division physics course work selected with the approval of the department:
 - PHYS 315. Introduction to Modern Optics (4)
 - PHYS 370. Introduction to Astrophysics (4)
 - PHYS 406. Advanced Mechanics (4)
 - PHYS 422. Intermediate Quantum Physics (4)
 - PHYS 461. Introduction to Nuclear Physics (4)
 - PHYS 463. Introduction to Elementary Particle Physics (4)
 - PHYS 473. Mathematical Methods of Physics II (4)
 - PHYS 480A. Topics in Classical Physics: Mechanics (4)
 - PHYS 480B. Topics in Classical Physics: Electrodynamics (4)
 - PHYS 485. Seminar: Topics in Contemporary Physics (2)

- PHYS 573. Mathematical Methods of Physics III (4)
 PHYS 590. Physics Seminar (1)
 PHYS 595. Independent Study (1-6)

TEACHING CREDENTIAL PREPARATION PROGRAM

Teaching Credential Preparation Program Subject Matter Preparation Program in Science: Physics

Students wishing to be recommended for a single subject teaching credential in science with a concentration in physics must, either as part of the requirements for the Bachelor of Arts or Bachelor of Sciences in Physics or as electives in addition to the requirements for the degree, take the following courses:

1. BIOL 200. Biology of the Cell (5)
2. BIOL 201. Biology of Organisms (5)
3. BIOL 202. Biology of Populations (5)
4. CHEM 206. Fundamentals Chemistry II: Organic Chemistry (5)
5. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
6. CHEM 216. General Chemistry II: Principles of Chemical Reaction (6)
7. GEOL 101. Physical Geology (5)
8. GEOL 250. Historical Geology (5)
9. GEOL 306. Oceans and Atmospheres for the Science Teacher (3)
10. NSCI 300. Science and Technology (4)
11. PHYS 103. Descriptive Astronomy (5)
12. PHYS 590. Physics Seminar (1)

In addition, certain prerequisites and professional education courses are required. For information about admission to the teacher education program, education courses required or the specific requirements of the single subject teaching credential in science program, contact the Teacher Education Office in the College of Education.

MINOR IN PHYSICS

Requirements (61 units)

Requirements for a minor in Physics:

Lower-division requirements (41 units)

1. MATH 211. Basic Concepts of Calculus (4)
2. MATH 212. Calculus II (4)
3. MATH 213. Calculus III (4)
4. MATH 251. Multivariable Calculus I (4)
5. MATH 252. Multivariable Calculus II (4)
6. PHYS 221. General Physics I (5)
7. PHYS 222. General Physics II (5)
8. PHYS 223. General Physics III (5)
9. PHYS 224. General Physics IV (3)
10. PHYS 228. General Physics V (3)

Upper-division requirements (20 units)

1. PHYS 306. Intermediate Classical Mechanics (4)
2. PHYS 313. Electrodynamics (4)
3. PHYS 322. Quantum Mechanics (4)

4. PHYS 324. Statistical and Thermal Physics (4)
5. PHYS 373. Mathematical Methods of Physics I (4)

MINOR IN APPLIED PHYSICS

Requirements (54 units)

Requirements for a minor in Applied Physics:

Lower-division requirements (42 units)

1. CSCI 201. Computer Science I (4)
2. MATH 211. Basic Concepts of Calculus (4)
3. MATH 212. Calculus II (4)
4. MATH 251. Multivariable Calculus I (4)
5. PHYS 150. Introductory Electronics (5)
6. PHYS 221. General Physics I (5)
7. PHYS 222. General Physics II (5)
8. PHYS 223. General Physics III (5)
9. PHYS 224. General Physics IV (3)
10. PHYS 228. General Physics V (3)

Upper-division requirements (12 units)

1. PHYS 350. Data Acquisition and Control (4)
2. PHYS 373. Mathematical Methods of Physics I (4)
3. PHYS 352. Advanced Electronics (4)

Note: The MATH 252 prerequisite for PHYS 373 will be waived for the applied physics minor.

COURSE OFFERINGS IN PHYSICS (PHYS)

Lower Division

100. Physics in the Modern World (W)

Examination of physics and its contemporary use, including topics of: mechanics, electricity, optics, sound, heat and radioactivity. This course is intended for students with little background in science. Four hours lecture and three hours laboratory. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B.3) (5 units)

103. Descriptive Astronomy (FS)

A brief history of the development of astronomy followed by modern descriptions of our planetary system, stars, galaxies, models of the universe and the possibilities of life in the universe. Discussions of methods of extending knowledge of the universe. No previous background in natural sciences is required. Four hours lecture and three hours laboratory. (GE=B.3) (5 units)

121. Basic Concepts of Physics I (F)

First course of a three-course sequence surveying the basic concepts of physics, primarily for students entering fields relating to the biological sciences. This course will cover the basic principles of mechanics. Four hours lecture and three hours laboratory. Prerequisite: MATH 192 or 211, with a grade of "C-" or better. (GE=B.3) (5 units)

122. Basic Concepts of Physics II (W)

Continuation of PHYS 121. Topics include electricity, electric circuits and magnetism. Three hours lecture and three hours laboratory. Prerequisite: PHYS 121. (4 units)

123. Basic Concepts of Physics III (S)
Continuation of PHYS 122. Topics include optics, waves and modern physics. Three hours lecture and three hours laboratory. Prerequisite: PHYS 122. (4 units)

150. Introductory Electronics (S)
Introduces electronics for the sciences and engineering. Assumes no experience in electronics and can be taken prior to introductory physics. Focus is on analog electronics: practical circuits, passive and active circuit elements, signal conditioning, test and measurement skills, and a brief introduction to digital electronics. Four hours lecture and three hours laboratory. Prerequisites: a knowledge of trigonometry and exponential functions. (5 units)

221. General Physics I (FW)
First course of a five-course sequence in introductory physics for scientists and engineers. This sequence is intended for students with a strong background in mathematics and the sciences. Mechanics. Four hours lecture and three hours laboratory. Prerequisite: MATH 211. Prerequisite or corequisite: MATH 212. (GE=B.3) (PHYS 221=CAN PHYS 8) (5 units)

222. General Physics II (WS)
Second course in a five-course sequence in introductory physics for scientists and engineers. Electromagnetism. Four hours lecture and three hours laboratory. Prerequisites: PHYS 221 with a grade of "C" or better, MATH 212. Recommended: MATH 213. (PHYS 222=CAN PHYS 12) (5 units)

223. General Physics III (FS)
Third course of a five-course sequence in introductory physics for scientists and engineers. Waves and optics. Four hours lecture and three hours laboratory. Prerequisite: PHYS 222 with a grade of "C" or better. (5 units)

224. General Physics IV (F)
Fourth course of a five-course sequence in introductory physics for scientists and engineers. Special relativity, kinetic theory and thermodynamics. Three hours lecture. Prerequisite or corequisite: PHYS 223 or consent of instructor. (3 units)

228. General Physics V (W)
Fifth course of a five-course sequence in introductory physics for scientists and engineers. Modern physics. Three hours lecture. Prerequisite: PHYS 224 with a grade of "C" or better or consent of instructor. (3 units)

234. Vector Statics
Two and three dimensional equilibria of frames, machines, and trusses using vector algebra; friction; principles of moments, moments of inertia for areas and masses, centroids and centers of gravity. Prerequisite: PHYS 221. Prerequisite or corequisite: MATH 213. (4 units)

235. Vector Dynamics
Vector treatment of absolute and relative motion of particles and rigid bodies in translating and rotating reference frames. Newton's law of motion, work-energy, impulse-momentum. Prerequisite: PHYS 234 with a grade of "C" or better. Prerequisite or corequisite: MATH 251. (4 units)

295. Special Projects in Physics (FWS)
Individual investigation, research, study or survey of selected problems. Prerequisite: consent of instructor. (Credit to be arranged: 1 or 2 units)

Upper Division

303. Astronomy for Educators
An introductory course in the modern description of our planetary system, stars, galaxies, and models of the universe followed by basic principles and ideas in space science. Three hours lecture. (3 units)

304. Physics in the Classroom (FWS)
Basic concepts of physics as related to the elementary and middle school classroom. Concepts include mechanics, electricity and magnetism, optics, thermodynamics, and modern physics. One hour lecture and three hours laboratory. Prerequisite: one college level course in chemistry or earth science. (2 units)

305. Demonstration Laboratory in Physics
A demonstration laboratory exploring the basic principles of physics through individual student demonstration. Three hours laboratory. Prerequisite or corequisite: PHYS 304. (1 unit)

306. Intermediate Classical Mechanics (S)
A continuing study of dynamics with an introduction to advanced formulations. Four hours lecture. Prerequisites: PHYS 228 and one of the following: MATH 373, PHYS 373. (4 units)

313. Electrodynamics (S)
Derivation and applications of Maxwell's equations. Four hours lecture. Prerequisites: PHYS 228 and one of the following: MATH 373, PHYS 373. (4 units)

315. Introduction to Modern Optics
An introduction to geometrical optics, physical optics and lasers. Four hours lecture. Prerequisite: PHYS 313. (4 units)

322. Quantum Mechanics (F)
Introduction to quantum mechanics. Topics include the origins of quantum theory, wave functions, the Schroedinger equation, and one dimensional potentials. Four hours lecture. Formerly PHYS 321/421. Prerequisites: PHYS 228 and one of the following: MATH 373, PHYS 373. Recommended: MATH 331. (4 units)

324. Statistical and Thermal Physics (W)
Basics of equilibrium thermodynamics including statistical description of physical systems, entropy and temperature, classical and quantum statistical ensembles, thermodynamics, and selected applications. Four hours lecture. Formerly PHYS 424. Prerequisites: PHYS 228 and MATH 252. (4 units)

350. Data Acquisition and Control (F)
An introduction to computer-based data acquisition, control and analysis. Topics include instrument control, graphical programming, algorithm development, feedback control algorithms, and computer-based data analysis. Three hours lecture and three hours laboratory. Prerequisites: CSCI 201, PHYS 150 and 222. (4 units)

352. Advanced Electronics (W)

Advanced analog electronics techniques for science and engineering. Topics include computer-aided circuit design, high frequency techniques, modular circuit design, and computer-experiment interfacing. Three hours lecture and three hours laboratory. Prerequisites: PHYS 350 and one of the following: MATH 373, PHYS 373. (4 units)

370. Introduction to Astrophysics

Basic principles of stellar structure and evolution, galactic structure, extragalactic astronomy and cosmology. Four hours lecture. Prerequisites: PHYS 228 and one of the following: MATH 373, PHYS 373. (4 units)

373. Mathematical Methods of Physics I (F)

Vector calculus, Fourier analysis, and ordinary differential equations. Emphasis on techniques applicable to the problems of physics. (Also offered as MATH 373. Students may not receive credit for both.) Formerly PHYS 310/MATH 310. Prerequisites: PHYS 222 and MATH 252. MATH 331 is recommended. (4 units)

406. Advanced Mechanics (F)

A continuation of PHYS 306 with emphasis in Lagrangian and Hamiltonian formulation in classical mechanics. Four hours lecture. Prerequisites: PHYS 306 and one of the following: PHYS 373, MATH 373. (4 units)

414. Advanced Electrodynamics (F)

A continuation of PHYS 313 with advanced applications of Maxwell's equations and electromagnetic waves. Four hours lecture. Prerequisite: PHYS 313. (4 units)

422. Intermediate Quantum Physics (W)

Continued study of the principles of quantum mechanics introduced in PHYS 322. Topics include the axiomatic formulation of quantum mechanics, spin and orbital angular momentum, the Schrodinger equation in three dimensions, approximation methods, and scattering. Prerequisites: PHYS 306, 322 and 414. (4 units)

430. Advanced Physics Laboratory (S)

Selected advanced experiments appropriate to a student's previous preparation. May be repeated for credit. Six hours laboratory per week. Prerequisite: PHYS 313. Recommended: PHYS 322. (2 units)

450. Introduction to Solid State Physics (S)

Basic concepts of solid state physics, including crystal structure; free electron gas model; electronic structure of solids; phonons; properties of metals, insulators and semiconductors; magnetism; superconductivity. Four hours lecture. Prerequisite: PHYS 322. (4 units)

461. Introduction to Nuclear Physics

Basic concepts of nuclear structure and reactions, including accelerators and detectors, the nucleon-nucleon force, basic nuclear properties, the shell model, radioactivity, heavy ion reactions and quarks. Four hours lecture. Prerequisites: PHYS 306, 422 and one of the following: MATH 373, PHYS 373. (4 units)

463. Introduction to Elementary Particle Physics

A survey of elementary particle physics, including accelerators, relativistic kinematics, conservation laws, quarks, the standard model, and quantum field theories. Four hours lecture. Prerequisites: PHYS 306, 422 and one of the following: MATH 373, PHYS 373. (4 units)

473. Mathematical Methods of Physics II (W)

A continuation of MATH/PHYS 373. Topics covered include functions of a complex variable and partial differential equations. (Also offered as MATH 473. Students may not receive credit for both.) Prerequisite: MATH 373, or PHYS 373. MATH 331 and PHYS 228 are strongly recommended. (4 units)

480. Topics in Classical Physics

Further treatment of topics in physics introduced in previous courses.

A. Mechanics. Prerequisite: PHYS 406. (4 units)

B. Electrodynamics. Prerequisite: PHYS 414. (4 units)

485. Seminar: Topics in Contemporary Physics

A lecture course on a current topic or on new developments in physics. May be repeated for credit as topics change. (2 units)

573. Mathematical Methods of Physics III (S)

A continuation of MATH/PHYS 473 with emphasis on advanced topics relevant to physics. (Also offered as MATH 573. Students may not receive credit for both.) Prerequisites: MATH 331, and MATH 473 or PHYS 473. (4 units)

585. Internship in Physics (FWS)

Supervised work and study in physics in private or public setting. May be repeated for up to six units of credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (Credit to be arranged: 2 to 4 units)

590. Physics Seminar

Provides a vehicle for assessing the subject matter competency of physics graduates. May be repeated for credit. A total of two units may be applied towards the major requirements for graduation. Lecture only. Prerequisites: senior standing and consent of department. (1 unit)

595. Independent Study (FWS)

Research in physics conducted under the direction of a faculty member. A total of six units in PHYS 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

POLITICAL SCIENCE

Department of Political Science

Social and Behavioral Sciences Building, Room 112
880-5535

Bachelor of Arts

Political Science

Minor

Political Science
Pre-law

Master of Arts

National Security Studies

(Degree requirements can be found on [Page 482.](#))

Certificate Programs

International Relations

FACULTY: Mark Clark (Chair), Edward Erler, William Green, Brian Janiske, Brij Khare, Michael LeMay, Alemayehu Mariam, Ralph Salmi, Scot Zentner

The major in political science is designed for students who desire a liberal arts program with an emphasis on politics, government and public policy; plan a career in government service or public administration; seek training for positions in foreign service agencies of the United States government, international organizations or corporations; intend to study law; wish to prepare for teaching in the public schools; or intend to work for advanced degrees in political science in preparation for college or university teaching or for government service.

The department offers courses in the following fields:

- American government and politics
- Comparative politics
- International relations
- Political theory
- Public policy and administration

B.A. IN POLITICAL SCIENCE

Requirements (68 units)

Total units required for graduation: 180

Requirements for the B.A. in Political Science:

1. PSCI 100. Introduction to Political Science (4)
2. PSCI 203. American Government (4)
3. PSCI 204. International Relations (4)
4. PSCI 314. American Political Thought (4)
5. American government and politics
Eight units chosen from:
PSCI 320. The Legislative Process (4)
PSCI 326. Political Parties and Interest Groups (4)
PSCI 428. Formulation of Public Policy (4)
PSCI 431. The American Presidency (4)
6. Comparative government
Eight units chosen from:
PSCI 300. Western Political Systems (4)
PSCI 304. East European Political Systems (4)
PSCI 306. Developing Political Systems (4)

PSCI 308. Government and Politics of the Middle East (4)

7. International relations

Eight units chosen from:

- PSCI 325. American Foreign Policy (4)
- PSCI 400. International Politics (4)
- PSCI 500. International Law (4)
- PSCI 510. International Organization (4)

8. Political theory

Eight units chosen from:

- PSCI 310. Classical Political Thought (4)
- PSCI 311. Foundations of Modern Political Thought (4)
- PSCI 313. Contemporary Political Thought (4)
- PSCI 315. Marxist Political Thought (4)

9. Public law

Eight units chosen from:

- PSCI 328. Judicial Process (4)
- PSCI 410. American Constitutional Law (4)
- PSCI 411. The Bill of Rights (4)
- PSCI 412. Civil Rights (4)

10. Twelve additional units of electives in upper-division course work in political science, four of which must be chosen from:

- PSCI 530. Studies in Political Theory (4)
- PSCI 535. Seminar in Constitutional Law (4)
- PSCI 540. Seminar in Comparative Politics (4)
- PSCI 590. Seminar in International Relations (4)
- PSCI 592. Seminar in Government (4)

Note: The following will count as electives only after approval by the department chair:

- PSCI 575. Internship in Political Science
- PSCI 595. Independent Study

With approval of the department chair, up to eight units in related fields may be counted toward the upper-division course requirement in political science.

MINOR IN POLITICAL SCIENCE

Requirements (32 units)

Requirements for a minor in Political Science:

1. PSCI 100. Introduction to Political Science (4)
2. PSCI 203. American Government (4)
3. PSCI 314. American Political Thought (4)
4. Twenty units of upper-division political science course work chosen in consultation with an advisor.

MINOR IN PRE-LAW

Requirements (28 units)

Requirements for a minor in Pre-law:

1. PSCI 328. Judicial Process (4)
2. PSCI 410. American Constitutional Law (4)
3. PSCI 411. The Bill of Rights (4)
4. PSCI 535. Seminar in Constitutional Law (4)
5. Twelve units chosen from:
May choose only one of the following two courses:
CJUS 370. Law and Society (4)
SOC 359. Law and Society (4)

- CJUS 580. Juvenile Justice System (4)
 HIST 540. Constitutional History of the United States (4)
 MGMT 330. Legal Environment of Business (4)
 PA 472. Administrative Law (4)

May choose only one of the following three courses:

- PHIL 362A. Philosophy of Law: The Concept of Law (4)
 PHIL 362B. Philosophy of Law: Morality and the Law (4)
 PHIL 362C. Philosophy of Law: Rights and the Law (4)
 PSCI 500. International Law (4)

DEPARTMENTAL HONORS

The Political Science Department maintains an honors program for its fifteen to twenty most outstanding undergraduates. Students who complete its requirements while maintaining an overall grade point average of 3.5 are eligible to receive honors in political science at graduation.

Admission to the program is by invitation of the department. The department honors committee will review freshmen and transfer admissions and tender offers to qualified students. Qualifications will be determined by grades and SAT scores. Any student who has not been invited may request a review by the committee.

Students in the Honors Program must meet all the requirements of the political science major, with the following additional requirements or substitutions:

1. Completion of two years (24 units) of a foreign language;
2. Completion of MATH 110 in fulfillment of General Education mathematics requirement;
3. Completion of PSCI 375. Introduction to Political Science Research in place of PSCI 100. Introduction to Political Science;
4. Completion of five honors seminars, each to fill one of the course requirements from the five political science fields; and
5. Completion and successful defense of a senior honors thesis. Students must enroll in at least four units of PSCI 597: Senior Honors Thesis; students spending more than one quarter working on their Honors thesis must enroll in an additional four units of PSCI 597. Up to eight units of thesis credit may count towards the major requirement of 12 upper-division units in political science electives.

PI SIGMA ALPHA

Students majoring in political science who have a grade point average of at least 3.0 ("B") overall and 3.0 in the major have the opportunity to join Pi Sigma Alpha, the national honor society in political science. Additional information can be obtained from the Department of Political Science.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic

major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in International Relations

Certificate Requirements (32 units)

1. Twenty units chosen from:

- PSCI 300. Western Political Systems (4)
 PSCI 304. East European Political Systems (4)
 PSCI 306. Developing Political Systems (4)
 PSCI 325. American Foreign Policy (4)
 PSCI 400. International Politics (4)
 PSCI 484. National Security Policy (4)
 PSCI 500. International Law (4)
 PSCI 510. International Organization (4)

Four of the twenty units may be chosen from:

- PSCI 480A. International Relations in the Pacific Basin: Regional Affairs (4)
 PSCI 480B. International Relations in the Pacific Basin: East Asia (4)
 PSCI 480C. International Relations in the Pacific Basin: Southeast Asia (4)
 PSCI 480D. International Relations in the Pacific Basin: Oceania (4)
 PSCI 480E. International Relations in the Pacific Basin: Philippines (4)
 PSCI 480F. International Relations in the Pacific Basin: Japan (4)
 PSCI 480G. International Relations in the Pacific Basin: Korea (4)
 PSCI 480H. International Relations in the Pacific Basin: Singapore (4)
 PSCI 480J. International Relations in the Pacific Basin: Indonesia (4)

2. Twelve units chosen from:

- ECON 420. Comparative Economic Systems (4)
 ECON 430. International Economics (4)
 ECON 435. Multinational Corporations (4)
 ECON 450. Economic Development (4)
 HIST 556. Foreign Relations of the United States (4)
 MKTG 470. International Marketing Management (4)
 SSCI 300. Nonwestern World (4)

COURSE OFFERINGS IN POLITICAL SCIENCE (PSCI)

Lower Division

100. Introduction to Political Science

Introduction to the scope of the discipline, to its basic philosophical concepts and methods, and to political action in various cultural contexts. (GE=D.4) (4 units)

203. American Government

Political structure and processes of the American governmental system. This course meets the state code requirements in U.S. Constitution and state and local government. (GE=D.2) (PSCI 203=CAN GOVT 2) (4 units)

T. The instructor uses methods suitable for kindergarten through college classrooms. Intended for students in the B.A. in Liberal Studies, Accelerated Program. (4 units)

204. International Relations

A survey of major regions and ideologies of the world, and of the basic concepts of foreign and security policies, international political economy, international law, and international organizations. (4 units)

Upper Division**300. Western Political Systems**

Major Western political systems. (4 units)

304. East European Political Systems

Comparative examination of the domestic and foreign policies of East European states. (4 units)

305. Russian Foreign Policy

Decisive factors in the foreign policy of Russia and the former USSR. (4 units)

306. Developing Political Systems

Political systems, governmental structures, political orientation and foreign policies of developing nations. (4 units)

308. Government and Politics of the Middle East

Governmental and political structures of representative states in the Middle East, including Turkey, Israel, and the Arab States. (4 units)

310. Classical Political Thought

Classical political thought through a consideration of representative political thinkers such as Plato, Aristotle, Thucydides, Cicero, Lucretius. (4 units)

311. Foundations of Modern Political Thought

Major political ideas of the early modern period ranging from Machiavelli through Hobbes, Locke, Rousseau and Burke. (4 units)

313. Contemporary Political Thought

Political ideas of nineteenth and twentieth century theorists (other than the Marxists). (4 units)

314. American Political Thought

American political ideas from the colonial period to the present. This course meets the state code requirement in U.S. history. (4 units)

315. Marxist Political Thought

Political ideas of Marx, Engels, Lenin and other Marxist theorists. (4 units)

320. The Legislative Process

Law-making processes in the United States and/or other selected political systems. (4 units)

325. American Foreign Policy

Political analysis of American foreign policy with emphasis on foreign policy making in the nuclear age. (4 units)

326. Political Parties and Interest Groups

Organization, objectives and activities of political parties and political interest groups and their functions in modern political systems. (4 units)

328. Judicial Process

Process of judicial decision-making with emphasis on factors influencing that process and concepts of judicial roles. (4 units)

330. State and Local Politics

Comparison of state and local political systems within the American Federal System. This course meets the state code requirement in state and local government. (4 units)

332. California Government

The California Constitution, government and political institutions. This course is specifically designed to meet the state code requirement in state and local government. (2 units)

340. Sex and Politics

Emphasis will be on sex roles in traditional and modern political systems, sex stereotypes in politics; effects of changing technology on conventional male and female roles; dynamics of change affecting the woman's place in the political world. (4 units)

342. The Politics of Environment

Environmental problems in their political context, including air, water, thermal and noise pollution, solid waste, population growth, resource management, and the political costs and benefits of environmental protection. (4 units)

352. Minority Politics

Minority groups in the American political system. May be repeated as topics change.

- A. Ethnic Politics. Study of immigration with emphasis on the political development of major civil rights activities in the U.S. (4 units)
- B. African American Politics. Perspectives, styles, problems and dynamics of political activity in African American communities. (4 units)
- C. Latino Politics. Contemporary issues and public policy questions in the Latino/Chicano communities. (4 units)
- D. Asian American Politics. Political factors affecting the Asian American communities. (4 units)
- E. Native American Politics. Political factors affecting Native American communities. (4 units)

375. Introduction to Political Science Research

Basic ideas and research topics used by political scientists with topics to include theory construction, research design, quantitative methods and philosophy of science. Prerequisites: PSCI 314 and MATH 110. (4 units)

380. Introduction to Public Administration

An introduction to the purposes, methods and characteristics of public management, including organization of public services, roles and relationships of public administrators, accountability and the achievement of public goals. (Also offered as PA 380. Students may not receive credit for both.) (4 units)

400. International Politics

Selected theories and evolving patterns of international politics as developed within the nation-state system. (4 units)

410. American Constitutional Law

Principles of the American Constitution as announced by the Supreme Court in selected cases. Judicial review, separation of powers, presidential power, federalism and commerce are included. This course meets the state code requirement in the U.S. Constitution. (4 units)

411. The Bill of Rights

Limitation on federal and state power arising out of the provisions of the first eight and the 14th Amendments to the Constitution. Modern developments are stressed. This course meets the state code requirement in the U.S. Constitution. (4 units)

412. Civil Rights

Jurisprudence of the 13th, 14th and 15th Amendments as articulated by the U.S. Supreme Court. (4 units)

428. Formulation of Public Policy

Basic approaches to public policy analysis, emphasizing interaction between substance and process in policy development. (4 units)

431. The American Presidency

Office and institution of the presidency of the United States. (4 units)

440. Voting Behavior

Factors related to voting behavior and other forms of political involvement, including analysis and interpretation of electoral decisions. (4 units)

450. Political Socialization

Application of political theory and research to the political education and socialization of children. Major attention devoted to the problems of children's political orientations, their sources and formation. (4 units)

480. International Relations in the Pacific Basin

Examines foreign policies of countries in selected regions of the Pacific Basin, such as East Asia, Southeast Asia, Oceania, the Philippines, Japan, Korea, Singapore, Indonesia. May be repeated twice as topics change.

- A. Regional Affairs (4 units)
- B. East Asia (4 units)
- C. Southeast Asia (4 units)
- D. Oceania (4 units)
- E. Philippines (4 units)
- F. Japan (4 units)
- G. Korea (4 units)
- H. Singapore (4 units)
- J. Indonesia (4 units)

481. Contemporary African Politics

The politics and governments of African states since independence. The course shall examine key issues in colonial rule in Africa, struggle for African independence, nationalism and the problems of self-government. May be repeated twice as topics change.

- A. Regional Affairs (4 units)
- B. Francophone Africa (4 units)
- C. North Africa (4 units)
- D. Southern Africa (4 units)
- E. West Africa (4 units)
- F. East Africa (4 units)
- G. Horn of Africa (4 units)
- H. Lusophone Africa (4 units)
- I. South Africa (4 units)

484. National Security Policy

Introduction to concepts and principles of national security policy through an examination of topics in international relations, foreign policy, arms control, strategic thought and alliance strategy. (4 units)

500. International Law

Historical basis and present trends in the development of international law. (4 units)

507. The Politics of Central Asia

Comparative politics of Central Asian states, including historical, ethnic, religious and cultural influences. Formerly PSCI 307. (4 units)

510. International Organization

History, structure and dynamics of the United Nations and other multi-national organizations. (4 units)

515. Model United Nations

An analysis of the role of the U.N. in world politics to prepare students for the national U.N. competition. Particular emphasis is placed on foreign policy of the country to be represented and the internal and external factors on which that policy is based. Course may be repeated for a total of eight units towards graduation. (4 units)

530. Studies in Political Theory

Concentrated study of one political theorist or one subject in political theory. May be repeated for credit as topics change. (4 units)

531. Honors Seminar in Political Theory

Comprehensive study of some aspect of political theory. Enrollment limited to students in the Honors Program. (4 units)

535. Seminar in Constitutional Law

Intensive study in one or more aspects of constitutional law. Prerequisite: one of the following: PSCI 328, 410, 411, HIST 540 or consent of instructor. (4 units)

536. Honors Seminar in Public Law

Comprehensive study of some aspect of public law. Enrollment limited to students in the Honors Program. (4 units)

540. Seminar in Comparative Politics

Theories, methods, and paradigms of comparative politics. (4 units)

541. Honors Seminar in Comparative Politics

Comprehensive study of some aspect of comparative politics. Enrollment limited to students in the Honors Program. (4 units)

560. Intergovernmental Relations

Administrative and political dynamics of relationships among national, state and local units of government. (4 units)

571. Organization of U.S. Intelligence

A self-paced study course providing detailed information about the structure, procedures and organizational principles behind the U.S. intelligence community. (1 unit)

575. Internship in Political Science

Supervised work and study in public and private organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (Credit to be arranged: 2 to 4 units)

581. Political Economy of Russia

The relationship between Russia's political structure and economic system. (4 units)

590. Seminar in International Relations

Intensive study of some phase of foreign policy-making or international relations to be developed by instructor with class. May be repeated for credit, with consent of instructor. (4 units)

591. Honors Seminar in International Relations

Comprehensive study of some aspect of international relations. Enrollment limited to students in the Honors Program. (4 units)

592. Seminar in Government

An intensive study of some phase of government to be developed by instructor with class. May be repeated for credit, with the consent of instructor. (4 units)

593. Honors Seminar in American Government and Politics

Comprehensive study of some aspect of American government and politics. Enrollment limited to students in the Honors Program. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of eight units in PSCI 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 4 units)

597. Senior Honors Thesis

In-depth research culminating in a written thesis. Written proposals will be invited from seniors with a 3.5 grade point average in all political science courses. Enrollment is limited to those students whose proposals are approved by the Political Science Honors Thesis Committee. (4 units)

Graduate level courses can be found on Page 489.

PSYCHOLOGY

Department of Psychology

Social and Behavioral Sciences Building, Room 425
880-5570

Bachelor of Arts

Psychology

Minor

Psychology

Master of Arts

Psychology

(Degree requirements can be found on [Page 490.](#))

Master of Science

Psychology

(Degree requirements can be found on [Page 492.](#))

FACULTY: Mark Agars, David Chavez, Yu-Chin Chien, Gloria Cowan, Robert Cramer, Cynthia Crawford, Stuart Ellins (Chair), Janelle Gilbert, Chuck Hoffman, Laura Kamptner, Hideya Koshino, Janet Kottke, Michael Lewin, Faith McClure, Sanders McDougall, Fred Newton, Jean Peacock, Jason Reimer, Robert Ricco, David Riefer, Janel Sexton, Kenneth Shultz, Geraldine Stahly, Edward Teyber, Jodie Ullman, Sharon Ward, Michael Weiss, Amanda Wilcox-Herzog, Eugene Wong, Joanna Worthley

The general objectives of the Bachelor of Arts in Psychology are to present the scientific and professional aspects of psychology to the undergraduate majoring in this field and to provide service courses as electives for students throughout the university. Psychology majors may plan to apply the knowledge and skills provided by a broad psychology background to many diverse employment opportunities which do not require graduate training. The department also offers course work leading to the Master of Arts or the Master of Science in Psychology. Students intending to enroll in these programs or another graduate school will find the undergraduate program provides an excellent base for entry into graduate training.

Courses offered by the department range from the basic scientific courses such as experimental psychology, learning and perception to such applied courses as counseling and behavior modification. Laboratory and training facilities complement a wide variety of courses.

B.A. IN PSYCHOLOGY

Requirements (65-68 units)

Total units required for graduation: 180

As prerequisites for acceptance into the B.A. in Psychology, students must complete the following as a "Pre-psychology major." Upon completion of the requirements, student's major will be changed automatically from "Pre-psychology" to "Psychology" status. Following formal entrance to the psychology major, students may proceed with upper-division major requirements. [Students enrolled in their pre-psycholo-

gy course in statistics (e.g. PSYC 210) will be allowed to enroll in upper-division psychology classes for the following quarter with the understanding that all pre-psychology requirements will be completed successfully before upper-division courses are taken.]

Requirements to enter the B.A. in Psychology:

- Completion of the following:
 - General Education Basic Skills in English (A.1)
 - One of the following:
 - ENG 101. Freshman Composition
 - HON 103. Language and Meaning
 - General Education Basic Skills in Mathematics (A.3)
 - One of the following:
 - MATH 110. College Algebra
 - MATH 115. The Ideas of Mathematics
 - MATH 120. Pre-Calculus Mathematics
 - MATH 192. Methods of Calculus
 - MATH 211. Basic Concept of Calculus
 - PSYC 100. Introduction to Psychology, or its equivalent (also satisfies General Education category D.4)
 - PSYC 101. Psychology as a Major (1)
 - PSYC 210. Psychological Statistics (5) or its equivalent
 - The combined grade point average in the above courses must be a minimum of 2.5, with no grade lower than a "C" (2.0).

Students are encouraged to petition for the "Pre-psychology major" early in the curriculum.

Requirements for the B.A. in Psychology:

- PSYC 100. Introduction to Psychology (4)
- PSYC 101. Psychology as a Major (1)
- Choose one of the following:
 - PSYC 210. Psychological Statistics (5)
 - SSCI 215. Statistics for the Social Sciences (4)
- PSYC 311. Introduction to Experimental Psychology (6)
- Fields of Psychology
 - Twelve units chosen from:
 - PSYC 201. Developmental Psychology (4)
 - PSYC 355. Industrial Psychology (4)
 - PSYC 382. Psychology of Social Behavior (4)
 - PSYC 385. Personality (4)
 - PSYC 390. Abnormal Psychology (4)
- Basic Processes
 - Twelve units chosen from:
 - PSYC 357. History and Systems of Psychology (4)
 - PSYC 360. Cognitive Psychology (4)
 - PSYC 362. Learning and Motivation (4)
 - PSYC 363. Biological Psychology (4)
 - PSYC 364. Perception (4)
- Applications
 - Four units chosen from:
 - PSYC 315. Communication Processes (5)
 - PSYC 318. Health Psychology (4)
 - PSYC 351. Behavior Modification: Principles and Applications (4)
 - PSYC 377. Tests and Measurements (4)
 - PSYC 386. Introduction to Psychotherapy (4)
 - PSYC 575. Internship in Psychology (4)

8. Advanced Culminating Experience

Students must select one of the following options:

OPTION I (6 units)

Six units chosen from:

- PSYC 431. Experimental Psychology:
Developmental (6)
- PSYC 432. Experimental Psychology: Clinical (6)
- PSYC 433. Experimental Psychology:
Biological (6)
- PSYC 434. Experimental Psychology: Social (6)
- PSYC 435. Experimental Psychology: Personality (6)
- PSYC 436. Experimental Psychology: Learning and
Motivation (6)
- PSYC 437. Experimental Psychology: Cognition and
Perception (6)
- PSYC 438. Experimental Psychology: Industrial and
Organizational (6)

OPTION II (8 units)

A. Four units chosen from:

- PSYC 421. Advanced Seminar in Psychology:
Developmental (4)
- PSYC 422. Advanced Seminar in Psychology:
Clinical (4)
- PSYC 423. Advanced Seminar in Psychology:
Biological (4)
- PSYC 424. Advanced Seminar in Psychology:
Social (4)
- PSYC 425. Advanced Seminar in Psychology:
Personality (4)
- PSYC 426. Advanced Seminar in Psychology:
Learning and Motivation (4)
- PSYC 427. Advanced Seminar in Psychology:
Cognition and Perception (4)
- PSYC 428. Advanced Seminar in Psychology:
Industrial and Organizational (4)

B. PSYC 357. History and Systems of Psychology
(4) (If taken in category 6 in the core,
students must take an additional four
units from categories 5, 6 or 7.)

9. Sixteen units in upper-division psychology electives.

Students intending to apply to doctoral programs in psychology are encouraged to take the following courses:

- PSYC 357. History and Systems of Psychology
- PSYC 377. Tests and Measurements
- PSYC 410. Advanced Psychological Statistics
- PSYC 595. Independent Study

and Option I for the culminating experience.

Students interested in other educational and career goals have the opportunity to either diversify or concentrate their studies according to individualized plans developed in consultation with a departmental advisor.

MINOR IN PSYCHOLOGY

Requirements (32 units)

Requirements for a minor in Psychology:

1. PSYC 100. Introduction to Psychology (4)
2. Fields of Psychology
Four units chosen from:
PSYC 201. Developmental Psychology (4)

- PSYC 355. Industrial Psychology (4)
- PSYC 382. Psychology of Social Behavior (4)
- PSYC 385. Personality (4)
- PSYC 390. Abnormal Psychology (4)

3. Basic Processes

Four units chosen from:

- PSYC 357. History and Systems of Psychology (4)
- PSYC 360. Cognitive Psychology (4)
- PSYC 362. Learning and Motivation (4)
- PSYC 363. Biological Psychology (4)
- PSYC 364. Perception (4)

4. Applications

Four units chosen from:

- PSYC 315. Communication Processes (5)
- PSYC 318. Health Psychology (4)
- PSYC 351. Behavior Modification: Principles and
Applications (4)
- PSYC 377. Tests and Measurements (4)
- PSYC 386. Introduction to Psychotherapy (4)
- PSYC 575. Internship in Psychology (4)

5. Sixteen units of upper-division psychology electives are required.

DEPARTMENTAL HONORS

Students majoring in psychology are eligible to receive honors in psychology at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall grade point average of 3.25 or better;
4. Completion of the three-quarter Honors Program with a grade of "B" (3.0) or better each quarter:
PSYC 597. Honors Seminar
PSYC 598A. Honors Project
PSYC 598B. Honors Project

Students interested in this recognition must file a formal application for enrollment in the Psychology Honors Program at the end of their junior year.

COURSE OFFERINGS IN PSYCHOLOGY (PSYC)

Lower Division**100. Introduction to Psychology**

A survey of the field of modern psychology. (GE=D.4) (PSYC 100= CAN PSY 2) (4 units)

101. Psychology as a Major

A survey of different areas of specialization and professional activities of psychologists. Graded credit/no credit. Prerequisite: PSYC 100. (1 unit)

105. Critical Thinking Through Problems Analysis

Development of basic skills in critical thinking including identifying and understanding common fallacies, recognizing techniques of persuasion and propaganda, problem solving strategies, and applying skills of critical thinking to the complex issues of everyday life. (GE=A.4) (4 units)

115. Personal and Social Adjustment

Application of psychological principles to predictable challenges and problems over the life span. Explores opportunities for adjustment and growth in a variety of circumstances, such as family and college life. May not be counted toward fulfillment of requirements in the psychology major. (GE=E.2) (2 units)

120. Career Development

Examination of the world of work and individual self-assessments, including exploration of career aspirations and goals. (2 units)

201. Developmental Psychology

Introduction to the psychological development of the person from the prenatal period through old age. Prerequisite: PSYC 100. (4 units)

210. Psychological Statistics

Introduction to statistical reasoning and application of basic statistical procedures in psychology. Includes both descriptive and inferential statistics with emphasis on parametric techniques. Credit may not be received for more than one of the following courses: MSCI 210, PSYC 210, or SSCI 215. Four hours lecture and three hours of laboratory. (PSYC 210=CAN PSY 6) (5 units)

270. Infant and Toddler Development

Prenatal, neonatal, infant, and toddler development through age two. Prerequisite: PSYC 100. (4 units)

280. Early Childhood Development

Physical, social, emotional, and intellectual development of the young child from ages two to eight. Laboratory involves observation of young children. Four hours lecture and three hours laboratory. (Also offered as HD 280. Students may not receive credit for both.) Prerequisite: PSYC 100. (5 units)

Upper Division**301. Psychology of Human Sexuality**

Theory and empirical findings from the areas of social, developmental, physiological, and clinical psychology as they apply to human sexual behavior. (4 units)

302. Management and Organizational Behavior

Introduction to management as it affects operations and the behavior of people in relation to the functional fields of administration. Selected behavioral concepts analyzed with respect to applications in management. (Also offered as MGMT 302. Students may not receive credit for both.) (4 units)

303. Parenting and Family Relations

Effects of parenting and intra-family relations on child and life-span psychological development. Prerequisites: PSYC 100 and 201 or equivalent. (4 units)

305. Psycholinguistics

An introduction to theory and research on the psychological study of language, first language acquisition, and the relation of language to thought and culture. Prerequisite: PSYC 100. (4 units)

311. Introduction to Experimental Psychology

Design and execution of psychological research. Four hours lecture and six hours laboratory. Prerequisites: PSYC 100 and 210 or SSCI 215; restricted to psychology majors, human development majors, human services majors or consent of department. (6 units)

315. Communication Processes

Introduction to the nature of the helping process with emphasis on strategies of behavior change, interpersonal communication and basic helping skills. Four hours lecture and two hours laboratory. Prerequisite: PSYC 100. (5 units)

318. Health Psychology

Examination of psychological aspects of health related behaviors with emphasis on the effects of interpersonal and social psychological factors on physical health and effective medical care. Prerequisite: PSYC 100. (4 units)

320. Psychology of Middle Childhood

Theories and their applications to physical, cognitive, social and emotional development during the middle childhood years. A field based component will be required. (4 units)

324. Developmental Psychobiology

Psychobiological bases of human behavioral development throughout the life span. (Also offered as HD 324. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

328. Psychology of Adolescent Development

Theory and empirical literature concerning the physical, cognitive, social, and emotional changes from puberty to adulthood. A field based component will be required. (4 units)

329. Psychology of Adulthood and Aging

An examination of physical, social, cognitive, and personality development from young adulthood through death. Special attention is given to theory, research, and applications in the area of gerontology. Prerequisites: PSYC 100 and 201, or consent of instructor. (4 units)

331. The Psychology of Women

A critical study of theory and data on the psychological development of females; their attitudes, behaviors, psychopathologies, abilities and self-images. Prerequisite: PSYC 100. (4 units)

333. Drugs and Behavior

Analysis of drugs from psychological, behavioral and physiological viewpoints. Topics include drug classification, altered states of consciousness, addiction, chemical nature and treatment of mental illness. Prerequisite: PSYC 100 or consent of instructor. (4 units)

334. Addiction and Recovery

Research and theories related to the psychological, behavioral and physiological basis of addiction and recovery. A variety of common addictive disorders will be considered including eating, smoking, gambling, work, sex and drugs. Prerequisite: PSYC 100 or consent of instructor. (4 units)

339. Human Psychophysiology

An examination of the human psychophysiological literature with emphasis on research findings, clinical applications and theory related to the analysis of the relationships between bodily processes, psychological states and behavior. Prerequisite: PSYC 100 or consent of instructor. (4 units)

340. Prejudice, Race, and Racism

Psychological and sociological theories and research on prejudice and racism in the U.S. and other countries, emphasizing the development and change of racial attitudes. (4 units)

345. Cross-Cultural Psychology

Crosscultural psychology focusing on cultural variability in basic psychological processes and the cultural limits of traditional psychological theories. (4 units)

349. The Psychology of Gays and Lesbians

Analysis of theories and research on homosexuality, social reactions to homosexuality, and gay and lesbian cultural adaptations. (4 units)

350. Development of Exceptional Children

Review of theory, assessment, management, and rehabilitation of exceptional children. Includes developmental implications of specific medical conditions, retardation, and learning/cognitive dysfunctions. Prerequisite: HD 280, PSYC 201, or 280. (4 units)

351. Behavior Modification: Principles and Applications

Analysis of the theory, techniques and ethics of behavior modification. Prerequisite: PSYC 100 or consent of instructor. (4 units)

355. Industrial Psychology

Practices of modern industrial and personnel psychology. Includes selection, placement, training, motivation, job analysis, evaluation and human factors. Prerequisite: PSYC 100 or consent of instructor. (4 units)

357. History and Systems of Psychology

A historical framework for integrating basic orientations in contemporary psychology, including the development of the major schools of thought in psychology. Prerequisite: PSYC 100. (4 units)

358. Cognitive Development

Survey of the major theories, issues and research in the development of perceptual and cognitive capacities from childhood through adulthood. Prerequisites: PSYC 100 and 201. (4 units)

360. Cognitive Psychology

Research and theories concerning human information processing; topics include sensory processes, attention, memory, language and other higher mental processes. Prerequisite: PSYC 100. (4 units)

362. Learning and Motivation

Survey of research and major theories in animal and human learning and motivation. Applications of learning and motivational principles. Prerequisite: PSYC 100. (4 units)

363. Biological Psychology

Overview of the biological basis of behavior with emphasis on the relationship between brain function and thought, emotion, perception, language, learning, memory and motivation. Prerequisite: PSYC 100. (4 units)

364. Perception

Selected topics in the field of perceptual processes. Includes review of contemporary theories and research. Class demonstrations and mini-projects. Prerequisite: PSYC 100 or consent of instructor. (4 units)

366. Computer Applications in Psychology

A survey of the uses of computers in psychology. Topics include the application of computers in psychological research and statistical data analysis. Three hours lecture and three hours laboratory. Prerequisites: PSYC 100 and one of the following: MSC1 210, PSYC 210, SSCI 215; or consent of instructor. (4 units)

367. Neuropsychiatric Disorders

An examination of brain systems involved in psychiatric syndromes and neurological disorders, including Parkinson's disease, Alzheimer's disease, schizophrenia, depression, and bipolar disorders. Provides a basic understanding of brain dysfunctions that contribute to these disorders and rationales for pharmacological treatments. Prerequisite: PSYC 100 or consent of instructor. (4 units)

370. Topics in Psychology

Selected psychology topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change. Prerequisite: PSYC 100. (2 units)

372. Psychology of Death and Dying

A review of current theory and research on the psychology of grief, death and dying. (Also offered as HD 372. Students may not receive credit for both.) Prerequisite: PSYC 201 or equivalent. (4 units)

375. Seminar in Psychology

Selected topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as topics change. Prerequisite: PSYC 100. (4 units)

377. Tests and Measurements

Administration of psychological tests and scales; interpretation and use of the data which they yield. Prerequisites: PSYC 100; and one of the following: PSYC 210 or SSCI 215. (4 units)

382. Psychology of Social Behavior

Major concepts, issues and psychological research regarding social influence on individual behavior. Prerequisite: PSYC 100. (4 units)

384. Personality and Social Development

Development of personality, emotions and social behavior from childhood through adulthood. Prerequisites: PSYC 100 and 201 or equivalents. (4 units)

385. Personality

Survey of the major theories of personality. Prerequisite: PSYC 100 or consent of instructor. (4 units)

386. Introduction to Psychotherapy

Introduction to theories, methods and research in psychotherapy. Formerly PSYC 490. Prerequisite: PSYC 100. (4 units)

387. Community Psychology

Comprehensive study of the discipline of community psychology which emphasizes the relationship of community resources to individual mental health needs. Prerequisite: PSYC 100. (4 units)

390. Abnormal Psychology

An introduction to psychopathology, emphasizing the major interpretations and treatments of emotional and behavioral disorders. Prerequisite: PSYC 100 or consent of instructor. (4 units)

391. Psychopathology of Childhood

Psychological and emotional disorders of children with special emphasis on diagnostic and clinical treatment. Prerequisites: PSYC 100 and 201. (4 units)

395. Psychology of Consciousness

Human consciousness from the perspectives of the experiential, behavioral and physiological psychology literatures. Includes survey of research and theory on topics such as waking consciousness, dreams, meditation and altered states of consciousness. Prerequisite: PSYC 100. (4 units)

400. Child Assessment

Theory and procedures for assessing cognitive, social, and motor abilities in infants and children. Course includes a practicum in administering and interpreting selected developmental screening tests. Four hours lecture and three hours practicum. Prerequisites: HD 280, PSYC 201, or 280. (5 units)

410. Advanced Psychological Statistics

Coverage of advanced statistical reasoning and application of statistical procedures in psychology. Includes both parametric and nonparametric techniques with an introduction to multivariate statistics. Statistical computer packages will be introduced. Four hours lecture and three hours laboratory. Prerequisites: PSYC 210, MSCI 210, or SSCI 215; or consent of instructor. (5 units)

421. Advanced Seminar in Psychology: Developmental

A review of selected research areas in the fields of child and life-span developmental psychology. Students will develop an advanced project. Prerequisites: PSYC 201 and 311 or consent of instructor. (4 units)

422. Advanced Seminar in Psychology: Clinical

A review of selected topics in clinical psychology outcome research, such as psychopathology, adaptation and coping, health promotion, and cultural factors in diagnosis and treatment. Students will develop an advanced project. Prerequisites: PSYC 311, and either PSYC 386 or 390. (4 units)

423. Advanced Seminar in Psychology: Biological

A review of the literature regarding the neural and endocrine processes underlying brain function and behavior. Students will develop an advanced project. Prerequisites: PSYC 311 and 363 or consent of instructor. (4 units)

424. Advanced Seminar in Psychology: Social

A review of theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Students will develop an advanced project. Prerequisites: PSYC 311 and 382 or consent of instructor. (4 units)

425. Advanced Seminar in Psychology: Personality

A review of contemporary personality theories and the relationship of personality to behavior. Students will develop an advanced project. Prerequisites: PSYC 311 and 385. (4 units)

426. Advanced Seminar in Psychology: Learning and Motivation

A review of selected theories and research in areas of learning and motivation. Students will develop an advanced project. Prerequisites: PSYC 311 and 362, or consent of instructor. (4 units)

427. Advanced Seminar in Psychology: Cognition and Perception

A review of human information processing, memory, thinking and perceptual processes. Students will develop an advanced project. Prerequisites: PSYC 311 and either PSYC 360 or 364. (4 units)

428. Advanced Seminar in Psychology: Industrial and Organizational

A review of industrial/organizational psychology, in selected areas such as work motivation, performance evaluation, training techniques, and selection approaches. Students will develop an advanced project. Prerequisites: PSYC 311, 377 and one of the following: MGMT 302, PSYC 302 or 355. (4 units)

431. Experimental Psychology: Developmental

Selected research areas in the fields of child and life-span developmental psychology. Includes review of current literature and experimental techniques in developmental research. Four hours lecture and six hours laboratory. Prerequisites: PSYC 201 and 311 or consent of instructor. (6 units)

432. Experimental Psychology: Clinical

Empirical studies in clinical psychology. Study options include experimental psychopathology, adaptation and coping, health promotion, anxiety/stress, mood/emotion and cultural factors in diagnosis and treatment. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311, and either PSYC 386 or 390. (6 units)

433. Experimental Psychology: Biological

Introduction to the neural processes underlying brain function and behavior. Particular emphasis will be placed on neuroanatomy and the actions of drugs on brain and behavior. Students will receive practical training in advanced neuroscience techniques. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311 and 363 or consent of instructor. (6 units)

434. Experimental Psychology: Social

Methods, theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311 and 382. (6 units)

435. Experimental Psychology: Personality

Empirical study of personality theories and the relationship of personality to behavior. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311, 377 and 385. (6 units)

436. Experimental Psychology: Learning and Motivation

Selected theories and research in areas of learning and motivation. Includes literature review and experimental analysis. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311 and 362. (6 units)

437. Experimental Psychology: Cognition and Perception

Empirical study of human information processing, memory, thought and perceptual processes. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311 and either PSYC 360 or 364. (6 units)

438. Experimental Psychology: Industrial and Organizational

Methods and empirical study of industrial-organizational psychology, in selected areas such as work motivation, performance evaluation, training techniques, and selection approaches. Four hours lecture and six hours laboratory. Prerequisites: PSYC 311, 377 and one of the following: MGMT 302, PSYC 302 or 355. (6 units)

442. Behavioral Neuroscience

Intensive review of the neural mechanisms underlying behavior. Considerable emphasis is placed on sensory, motor, and homeostatic functioning. Higher-order functioning, including learning and memory, will also be covered. Prerequisite: HD 324, PSYC 324, or 363, or consent of instructor. (4 units)

460. Adult Assessment

Theory, issues, and procedures in assessment of physical, cognitive, social and emotional functioning in adulthood and old age. (Also offered as HD 460. Students may not receive credit for both.) Prerequisite: PSYC 329 or SOC 330 or HSCI 423, or consent of instructor. (4 units)

538. Introduction to Psychopharmacology

Examination of the basic pharmacological principles of psychoactive drugs. Particular emphasis is placed on neuronal functioning, mechanisms of drug action, and behavioral outcomes. Prerequisites: HD 324, PSYC 324, 333 or 363, or consent of instructor. (4 units)

540. Work, Retirement and Leisure

Theory and research on work, retirement and leisure during the adult years. (Also offered as HD 540. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

575. Internship in Psychology

Supervised work and study in private or public organizations. May be repeated once for credit. (Only four units of PSYC 575 may be applied to upper-division elective requirements in the psychology major.) Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

581. Seminar in Industrial/Organizational Psychology

Selected topics in industrial/organizational psychology. M.S. I/O option candidates are required to take all four topics. Same topic may not be repeated for credit. Prerequisites: upper-division or graduate standing in the M.S. in Psychology, I/O program and consent of department.

- A. Current Professional Issues (2 units)
- B. Organizational Leadership (2 units)
- C. Processes of Work Groups (2 units)
- D. Training and Executive Development (2 units)

595. Independent Study

Special topics involving literature and/or experimental effort. A total of eight units of PSYC 595 may be applied toward graduation, of which a maximum of four units can be applied toward the upper-division requirements in the psychology major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 4 units)

597. Honors Seminar

Provides an opportunity for students to develop an independent project under faculty supervision. Students will meet as a class to discuss their projects, as well as various advanced topics. Enrollment is limited to students whose formal application for departmental honors is approved. Prerequisites: PSYC 311 and consent of department. (4 units)

598. Honors Project

Provides an opportunity for students to conduct an independent project under faculty supervision. Enrollment is limited to students whose formal application for departmental honors is approved. May not be used to satisfy the requirements of the psychology major.

- A. Prerequisites: PSYC 597 and consent of department. (2 units)
- B. Prerequisites: PSYC 598A and consent of department. (2 units)

PUBLIC ADMINISTRATION

Department of Public Administration

Jack Brown Hall, Room 456
880-5758

FACULTY: David Bellis (Chair), Chuck Christie, Michael Clarke, Albert K. Karnig, Guenther Kress, Audrey Mathews, J. Brian Watts, Clifford Young

The university offers a Masters in Public Administration. In addition, a concentration in public administration is available within the Bachelor of Arts in Administration. The details of these programs are listed under Administration on [Page 79](#). The Master of Public Administration can be found on [Page 498](#). The courses listed below are offered in support of these programs. Further information is available from the Department of Public Administration.

COURSE OFFERINGS IN PUBLIC ADMINISTRATION (PA)

Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 89.9 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

305. Organizations in Multicultural and Diverse Societies

Integrative, multicultural exploration of the challenge of ensuring that business and government organizations as they pursue their economic or public policy missions also promote societal goals of democratic process and full inclusion of women and minorities. Examines the roles and powers of business and government organizations in meeting or failing to meet the rights and needs of citizens of all genders and ethnicities. Prerequisite: junior or senior standing. (GE=G.2) (4 units)

307. Public Relations in the Public Sector

Public relations as an inherent aspect of management in the public sector. Problems and techniques of administration of programs to manage and improve public relations. (4 units)

315. Government-Business Relations

Study of public-private sector interactions and the respective roles of government and business in these relationships. Government's evolving role in economic life; the context of government-business relations; the maintenance and moderation of competition; specific problems in government-business interactions. (4 units)

380. Introduction to Public Administration

An introduction to the purposes, methods and characteristics of public management, including organization of public services, roles and relationships of public administrators, accountability and the achievement of public goals. (Also offered as PSCI 380. Students may not receive credit for both.) (4 units)

462. Public Personnel Administration

Definition, description and evaluation of government personnel systems; classification, compensation, recruitment, examination, training, working conditions, incentives, performance ratings, public employee organizations and organizational development in the public service. Formerly PA 562. Prerequisite: PA 380. (4 units)

463. Governmental Budgeting

Role of the budgetary process in government management, the public sector environment of budgeting, budget formulation and administration. Formerly PA 563. (4 units)

472. Administrative Law

Processes of administrative rule making, regulation, adjudication and appeal procedures; duties and liabilities of public officials, trends in regulation, overview of regulatory agencies. (4 units)

473. Public Transportation Planning, Policy and Regulation

Study of the impacts of local, state and federal planning, policies, rules, regulations, and programs on surface, marine and air transportation systems. The focus is on interrelationships between business and the public sector in the strategic management of transportation applications. (4 units)

490. Senior Assessment Seminar in Public Administration

This senior-level capstone course develops an overall general perspective on the field of public administration. It reviews and integrates knowledge from the Public Administration upper-division core and concentration courses. The class assesses and documents students' academic progress in the Public Administration concentration to demonstrate evidence of learning the core theories and practices of public administration as applied to topical areas. Prerequisites: senior standing, PA 307, 315, 380, 462, 463 and 472, or consent of instructor. (4 units)

514. Management of Private Nonprofit Organizations

Analyzes the specific problems of management in private nonprofit organizations, including planning, personnel, financial and policy issues. (4 units)

516. Public and Non-Profit Project Management

Aspects of project management, including needs and feasibility assessment, project design, proposal writing, contract negotiation, funding, developing project teams, managing team conflict, monitoring, and evaluation. Three hours lecture and two hours activity laboratory. (4 units)

521. Principles of Planning

Introduction to local and regional community planning; includes methods of adoption and interorganizational relationships. (4 units)

548. Management of Computers in the Public Sector

Designed to help students gain competency in computer related skills. Each topic may be taken once for credit. Three hours lecture and two hours activity laboratory.

- A. Word Processing (4 units)
- B. Data Base Management (4 units)
- C. Spread Sheet (4 units)
- D. Communication (4 units)
- E. Networking (4 units)
- F. Special Problems (4 units)
- G. Geographic Information Systems (4 units)

557. Public Sector Labor Relations

Analyzes issues created by collective bargaining and unionism in public sectors. Examples: selection of bargaining agents, bargaining scope and obligation, impasse resolution and grievance procedure. (4 units)

564. Local Public Administration

Administrative characteristics and problems of public management in the urban area, including city, county, school and special district organization and functions. (4 units)

568. Accounting for Government and Not-for-Profit Organizations

Covers principles and practices of government fund accounting. Topics include governmental accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to government and not-for-profit entities, presentation and uses of financial statements. (Also offered as ACCT 568. Students may not receive credit for both.) Prerequisite: ACCT 211 or 311. (4 units)

575. Internship in Public Administration

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Public Administration

An intensive study of some phase of public administration to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of 10 units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

SOCIAL SCIENCES

College of Social and Behavioral Sciences

Social and Behavioral Sciences Building, Room 207
880-5500

Bachelor of Arts

Social Sciences

Teaching Credential Program

Single Subject

Master of Arts

Social Sciences

COORDINATOR: Jenny Zorn

The social sciences major is designed for those students who wish to blend any three of the disciplines represented in the College of Social and Behavioral Sciences. Students seeking the single subject teaching credential in social science will not be able to meet the requirements with this major alone. See the Teaching Credential Program section which follows.

B.A. IN SOCIAL SCIENCES

Requirements (60 to 62 units)

Total units required for graduation: 180

A minimum of 28 to 29 units (primary) in one of the following fields, plus 16 to 17 units each (secondary) in two others:

Anthropology
Economics
Geography
History
Political Science
Psychology
Sociology

Of the 28 to 29 units comprising the primary field, no more than twelve units may be from the lower-division courses. In each secondary field, no more than eight units may be from lower-division courses.

Within the social sciences major, cross-listed courses cannot be counted both in a primary field and in a secondary field.

Those courses which will be required and allowed for use in this track, both in the primary and secondary fields, are listed below. It is the responsibility of both the student and the student's advisor to construct a program in line with these requirements. Once agreed to, the program is filed in the student's permanent folder in the Office of Records, Registration and Evaluations but is subject to revision by mutual consent. No more than 32 units may be selected from any one department. No more than one 12 unit special comprehensive examination may be applied to any field, either primary or secondary, and not more than two of these examinations may be used to meet the requirements of this major.

An ethnic studies primary or secondary field may be obtained by taking ES 100 (Ethnicity and Race in America) and 56 to 58 additional units of upper-division course work from within the College of Social and Behavioral Sciences as stated below. No course may be used in a secondary field which has been used in any other part of the social sciences major.

A special topics primary or secondary field may be contracted with the dean of the College of Social and Behavioral Sciences. Possible topics that may be arranged under this option include, but are not restricted to, women's studies and Latin American studies. For more information concerning this option, contact the dean of the College of Social and Behavioral Sciences.

Requirements for the B.A. in Social Sciences:

Anthropology

(Primary Field 28 units, Secondary Field 16 units)

Primary Field (28 units):

1. ANTH 100. Introduction to Anthropology: Human Evolution (4)
 2. ANTH 102. Introduction to Anthropology: Culture and Society (4)
 3. A minimum of twelve units chosen from:
 - ANTH 300. Archaeology (4)
 - ANTH 302. African Archaeology (4)
 - ANTH 303. Prehistory of the Middle East and Europe (4)
 - ANTH 305. North American Prehistory (4)
 - ANTH 306. Aztecs, Maya and Their Predecessors (4)
 - ANTH 307. Incas and Their Predecessors (4)
 - ANTH 312. Historical Archaeology (4)
 - ANTH 315. Archaeology of the Southwest and California (4)
 - ANTH 319. Experimental Archaeology and Ethnoarchaeology (5)
 - ANTH 320. Archaeological Survey and Excavation (5)
 - ANTH 321. Archaeological Laboratory Analysis (5)
- May choose only one of the following two courses:
- ANTH 323. Native North American Art (4)
 - ART 323. Native North American Art (4)
- May choose only one of the following two courses:
- ANTH 324. Pre-Columbian Art (4)
 - ART 324. Pre-Columbian Art (4)
- ANTH 325. Human Variation and the Concept of Race (4)
 - ANTH 326. Human Origins (4)
 - ANTH 327. Primate Evolution and Ecology (4)
 - ANTH 330. Cross-Cultural Child-Rearing Practices (4)
 - ANTH 331. Anthropology of Human Development (4)
 - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
- May choose only one of the following two courses:
- ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)
 - ANTH 335S. Cross-Cultural Perspectives on Crime and Deviance (Self-paced) (4)
- ANTH 351. Indians of North America (4)

- ANTH 352. Indians of the Southwest (4)
 ANTH 354. Cultures of Mexico and Central America (4)
 ANTH 356. Cultures of South America (4)
 ANTH 357. African Societies (4)
 ANTH 358. Peoples of the Middle East (4)
 ANTH 360. Peoples of Australia (4)
 ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)
 ANTH 375. Museum Methods (4)
 ANTH 390. Selected Topics in Anthropology (4)
 ANTH 391. Selected Topics in Anthropology (2)
4. Eight units chosen from:
- ANTH 460. Language and Culture (4)
 ANTH 466. Anthropology of Health, Illness and Healing (4)
 ANTH 470. Culture Change and Dynamics (4)
 ANTH 475. Cultural Ecology (4)
 ANTH 480. Magic, Religion and Science (4)
 ANTH 485. Applied Anthropology and Social Policy (4)
 ANTH 490. Systems of Social Organization (4)
 ANTH 492. Economic Anthropology (4)
 ANTH 493. Urban Anthropology (4)
 ANTH 500. Great Ideas in Anthropology (4)
 ANTH 575. Internship in Anthropology (2-5)
 ANTH 585. Fieldwork in Cultural Anthropology (4)
 ANTH 595. Independent Study (2-5)
- Secondary Field (16 units):
1. Choose one of the following:
 ANTH 100. Introduction to Anthropology: Human Evolution (4)
 ANTH 102. Introduction to Anthropology: Culture and Society (4)
2. A minimum of eight units chosen from:
 ANTH 300. Archaeology (4)
 ANTH 302. African Archaeology (4)
 ANTH 303. Prehistory of the Middle East and Europe (4)
 ANTH 305. North American Prehistory (4)
 ANTH 306. Aztecs, Maya and Their Predecessors (4)
 ANTH 307. Incas and Their Predecessors (4)
 ANTH 312. Historical Archaeology (4)
 ANTH 315. Archaeology of the Southwest and California (4)
 ANTH 319. Experimental Archaeology and Ethnoarchaeology (5)
 ANTH 320. Archaeological Survey and Excavation (5)
 ANTH 321. Archaeological Laboratory Analysis (5)
- May choose only one of the following two courses:
 ANTH 323. Native North American Art (4)
 ART 323. Native North American Art (4)
- May choose only one of the following two courses:
 ANTH 324. Pre-Columbian Art (4)
 ART 324. Pre-Columbian Art (4)
- ANTH 325. Human Variation and the Concept of Race (4)
 ANTH 326. Human Origins (4)

- ANTH 327. Primate Evolution and Ecology (4)
 ANTH 330. Cross-Cultural Child-Rearing Practices (4)
 ANTH 331. Anthropology of Human Development (4)
 ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
- May choose only one of the following two courses:
 ANTH 335. Cross-Cultural Perspectives on Crime and Deviance (4)
 ANTH 335S. Cross-Cultural Perspectives on Crime and Deviance (Self-paced) (4)
- ANTH 351. Indians of North America (4)
 ANTH 352. Indians of the Southwest (4)
 ANTH 354. Cultures of Mexico and Central America (4)
 ANTH 356. Cultures of South America (4)
 ANTH 357. African Societies (4)
 ANTH 358. Peoples of the Middle East (4)
 ANTH 360. Peoples of Australia (4)
 ANTH 361. Peoples of Micronesia, Melanesia and Polynesia (4)
 ANTH 375. Museum Methods (4)
 ANTH 390. Selected Topics in Anthropology (4)
 ANTH 391. Selected Topics in Anthropology (2)
3. Four units chosen from:
 ANTH 460. Language and Culture (4)
 ANTH 466. Anthropology of Health, Illness and Healing (4)
 ANTH 470. Culture Change and Dynamics (4)
 ANTH 475. Cultural Ecology (4)
 ANTH 480. Magic, Religion and Science (4)
 ANTH 485. Applied Anthropology and Social Policy (4)
 ANTH 490. Systems of Social Organization (4)
 ANTH 492. Economic Anthropology (4)
 ANTH 493. Urban Anthropology (4)
 ANTH 500. Great Ideas in Anthropology (4)
 ANTH 575. Internship in Anthropology (2-5)
 ANTH 585. Fieldwork in Cultural Anthropology (4)
 ANTH 595. Independent Study (2-5)

Economics

(Primary Field 28 units, Secondary Field 16 units)

Primary Field (28 units):

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. ECON 300. Intermediate Macroeconomics (4)
4. ECON 302. Intermediate Microeconomics (4)
5. Four units of 300-level economics course work.
6. Eight units of 400- or 500-level economics course work.

Secondary Field (16 units):

1. ECON 200. Principles of Microeconomics (4)
2. ECON 202. Principles of Macroeconomics (4)
3. Eight units of upper-division economics course work.

Geography

(Primary Field 29 units, Secondary Field 16 to 17 units)

Primary Field (29 units):

1. GEOG 100. Introduction to Human Geography (4)
2. GEOG 103. Physical Geography (5)
3. GEOG 420. Geography of Economic Activity (4)
4. Sixteen units of upper-division geography course work. However, no more than eight of these 16 units of upper-division elective course work can be an area study.

Secondary Field (16 or 17 units):

1. Choose one of the following:
 - GEOG 100. Introduction to Human Geography (4)
 - GEOG 103. Physical Geography (5)
2. GEOG 420. Geography of Economic Activity (4)
3. Eight units of upper-division geography course work. However, only four of these eight units of upper-division elective course work can be an area study.

History

(Primary Field 28 units, Secondary Field 16 units)

Primary Field (28 units):

1. HIST 200. United States History to 1877 (4)
 - or
 - Eight units chosen from:
 - HIST 350. The American Colonies, 1607-1783 (4)
 - HIST 351. The Evolution of American Democracy, 1783-1840 (4)
 - HIST 354. Civil War and Reconstruction (4)
2. HIST 201. United States History, 1877 to the Present (4)
 - or
 - Eight units chosen from:
 - HIST 356. The United States, 1877-1917 (4)
 - HIST 357. The United States, 1917-1945 (4)
 - HIST 359. The United States Since 1945 (4)
3. HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
 - or
 - Eight units as follows:
 - HIST 402. Renaissance and Reformation (4)
 - HIST 403. The Age of Absolutism and Enlightenment (4)
4. HIST 307. Modern Europe, 1815 to the Present (4)
 - or
 - Eight units chosen from:
 - HIST 503. Europe Since 1945 (4)
 - HIST 535. Studies in European National History (4)
5. Four units chosen from:
 - HIST 305. Ancient and Medieval Europe (4)
 - HIST 320. History of Ancient Greece (4)
 - HIST 321. History of Rome (4)
 - HIST 400. Early Medieval Europe (4)
 - HIST 401. Late Medieval Europe (4)
6. Eight units of upper-division history course work.

Secondary Field (16 units):

1. Eight units of upper-division history course work and either Group 1 or 2 below:

Group 1:

1. HIST 200. United States History to 1877 (4)
 - or
 - Eight units chosen from:
 - HIST 350. The American Colonies, 1607-1783 (4)
 - HIST 351. The Evolution of American Democracy, 1783-1840 (4)
 - HIST 354. Civil War and Reconstruction (4)
2. HIST 201. United States History, 1877 to the Present (4)
 - or
 - Eight units chosen from:
 - HIST 356. The United States, 1877-1917 (4)
 - HIST 357. The United States, 1917-1945 (4)
 - HIST 359. The United States Since 1945 (4)

Group 2:

1. HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
 - or
 - Eight units as follows:
 - HIST 402. Renaissance and Reformation (4)
 - HIST 403. The Age of Absolutism and Enlightenment (4)
2. HIST 307. Modern Europe, 1815 to the Present (4)
 - or
 - Eight units chosen from:
 - HIST 503. Europe Since 1945 (4)
 - HIST 535. Studies in European National History (4)

Political Science

(Primary Field 28 units, Secondary Field 16 units)

Primary Field (28 units):

1. PSCI 100. Introduction to Political Science (4)
2. PSCI 203. American Government (4)
3. Twenty units of upper-division course work with at least four units from each of the following five fields:

American Government and Politics

Four units chosen from:

- PSCI 320. The Legislative Process (4)
- PSCI 326. Political Parties and Interest Groups (4)
- PSCI 428. Formulation of Public Policy (4)
- PSCI 431. The American Presidency (4)

Comparative Government

Four units chosen from:

- PSCI 300. Western Political Systems (4)
- PSCI 304. Communist Political Systems (4)
- PSCI 306. Developing Political Systems (4)

International Relations

Four units chosen from:

- PSCI 325. American Foreign Policy (4)
- PSCI 400. International Politics (4)
- PSCI 484. National Security Policy (4)
- PSCI 500. International Law (4)
- PSCI 510. International Organization (4)

Political Theory

Four units chosen from:

- PSCI 310. Classical Political Thought (4)
 PSCI 311. Foundations of Modern Political Thought (4)
 PSCI 313. Contemporary Political Thought (4)

Public Law

Four units chosen from:

- PSCI 328. Judicial Process (4)
 PSCI 410. American Constitutional Law (4)
 PSCI 411. The Bill of Rights (4)

Secondary Field (16 units):

1. PSCI 100. Introduction to Political Science (4)
2. Twelve units of upper-division course work, four units chosen from three of the five fields listed below:

American Government and Politics

Four units chosen from:

- PSCI 320. The Legislative Process (4)
 PSCI 326. Political Parties and Interest Groups (4)
 PSCI 428. Formulation of Public Policy (4)
 PSCI 431. The American Presidency (4)

Comparative Government

Four units chosen from:

- PSCI 300. Western Political Systems (4)
 PSCI 304. Communist Political Systems (4)
 PSCI 306. Developing Political Systems (4)

International Relations

Four units chosen from:

- PSCI 325. American Foreign Policy (4)
 PSCI 400. International Politics (4)
 PSCI 484. National Security Policy (4)
 PSCI 500. International Law (4)
 PSCI 510. International Organization (4)

Political Theory

Four units chosen from:

- PSCI 310. Classical Political Thought (4)
 PSCI 311. Foundations of Modern Political Thought (4)
 PSCI 313. Contemporary Political Thought (4)

Public Law

Four units chosen from:

- PSCI 328. Judicial Process (4)
 PSCI 410. American Constitutional Law (4)
 PSCI 411. The Bill of Rights (4)

Psychology

(Primary Field 29 units, Secondary Field 16 units)

Primary Field (29 units):

1. PSYC 100. Introduction to Psychology (4)
2. PSYC 210. Psychological Statistics (5)
3. Eight units chosen from:
 - PSYC 201. Developmental Psychology (4)
 - PSYC 382. Psychology of Social Behavior (4)
 - PSYC 385. Personality (4)
 - PSYC 390. Abnormal Psychology (4)
4. Four units chosen from:
 - PSYC 360. Cognitive Psychology (4)
 - PSYC 362. Learning and Motivation (4)
 - PSYC 363. Biological Psychology (4)
 - PSYC 364. Perception (4)

5. Four units chosen from:

- PSYC 315. Communication Processes (4)
- PSYC 318. Health Psychology (4)
- PSYC 351. Behavior Modification: Principles and Applications (4)
- PSYC 355. Industrial Psychology (4)
- PSYC 377. Tests and Measurements (4)
- PSYC 386. Introduction to Psychotherapy (4)
- PSYC 387. Community Psychology (4)
- PSYC 575. Internship in Psychology (4)

6. Four units of upper-division psychology electives.

Secondary Field (16 units):

1. PSYC 100. Introduction to Psychology (4)
2. Four units chosen from:
 - PSYC 201. Developmental Psychology (4)
 - PSYC 382. Psychology of Social Behavior (4)
 - PSYC 385. Personality (4)
 - PSYC 390. Abnormal Psychology (4)
3. Four units chosen from:
 - PSYC 360. Cognitive Psychology (4)
 - PSYC 362. Learning and Motivation (4)
 - PSYC 363. Biological Psychology (4)
 - PSYC 364. Perception (4)
4. Four units chosen from:
 - PSYC 315. Communication Processes (4)
 - PSYC 318. Health Psychology (4)
 - PSYC 351. Behavior Modification: Principles and Applications (4)
 - PSYC 355. Industrial Psychology (4)
 - PSYC 377. Tests and Measurements (4)
 - PSYC 386. Introduction to Psychotherapy (4)
 - PSYC 387. Community Psychology (4)

Sociology

(Primary Field 29 units, Secondary Field 16 units)

Primary Field (29 units):

1. SOC 100. The Study of Society (4)
2. SOC 307. Social Research I (5)
3. A minimum of four units chosen from:
 - SOC 311. Sociological Theory (5)
 - SOC 360. Social Psychology (4)
4. Sixteen units of upper-division sociology electives.

Secondary Field (16 units):

1. SOC 100. The Study of Society (4)
2. SOC 360. Social Psychology (4)
3. Eight units of upper-division sociology electives.

TEACHING CREDENTIAL PROGRAM

Students who wish to be recommended for a single subject teaching credential in social sciences must complete the courses listed below plus a major in one of the following: anthropology, economics, geography, history, political science, psychology, social sciences, or sociology. Coursework taken for majors in these fields, as well as coursework which meets general education requirements, can be applied toward meeting the requirements of the Teaching Credential program. Fulfilling the requirements for this program may necessitate completing more than the minimum 186 units for graduation.

Since the program overlaps with some of the coursework required for the majors in those fields, students must receive advising from a department chair or designee who is knowledgeable about both the major and the credential program. Some of the departments offer special Social Sciences Teaching Credential tracks in their major which include all the coursework necessary. Students who elect to complete the teaching tracks in economics, geography, or history will not need to complete additional coursework from the program which follows.

For information about the professional education component or admission to the teacher education program, contact the Credentials Office (C.A.S.E.).

All students who are enrolled in the teacher credential program should see a faculty advisor for assistance in choosing courses and in preparing a required portfolio that will be evaluated by the faculty after the course of study has been completed. The portfolio is part of the assessment procedures that must be passed prior to admission into the College of Education.

Requirements for the Credential in Social Science (97 units plus completion of a major in an approved program)

Lower-division requirements (61 units)

1. ANTH 102. Introduction to Anthropology: Culture and Society (4)
2. Four units chosen from:
 - ANTH 140. World Civilizations I, the Rise of Civilization (4)
 - HIST 140. World Civilizations I, the Rise of Civilization (4)
3. ECON 104. Economics of Social Issues (4)
4. ECON 200. Principles of Microeconomics (4)
5. ECON 202. Principles of Macroeconomics (4)
6. GEOG 103. Physical Geography (5)
7. Four units chosen from:
 - GEOG 100. Introduction to Human Geography (4)
 - SSCI 165. Regions and Peoples of the World (4)
8. HIST 142. World Civilizations II, the Civilizations of the East and West (4)
9. HIST 144. World Civilizations III, the Expansion of Europe (4)
10. HIST 200. United States History to 1877 (4)
11. HIST 201. United States History, 1877 to the Present (4)
12. Four units chosen from:
 - PHIL 192. Introduction to Philosophy of Religion (4)
 - PHIL 193. Introduction to Eastern Philosophy (4)
13. PSCI 203. American Government (4)
14. PSYC 100. Introduction to Psychology (4)
15. SOC 100. The Study of Society (4)

Upper-division requirements (36 units)

1. GEOG 302. Geography of California (4)
2. HIST 370. History of California (4)
3. PSCI 330. State and Local Politics (4)

4. Four units chosen from:
 - ANTH 480. Magic, Religion and Science (4)
 - ECON 420. Comparative Economic Systems (4)
 - ECON 435. Multinational Corporations (4)
 - ECON 450. Economic Development (4)
 - GEOG 380. Population Geography (4)
 - GEOG 420. Geography of Economic Activity (4)
 - HIST 380. History of World Religions (4)
 - HIST 589. Revolutions in History (4)
 - PSCI 400. International Politics (4)
 - SOC 380. Sociology of Religion (4)
 - SOC 420. Population and Social Ecology (4)
5. Four units chosen from:
 - ANTH 354. Cultures of Mexico and Central America (4)
 - ANTH 356. Cultures of South America (4)
 - ANTH 357. African Societies (4)
 - ANTH 358. Peoples of the Middle East (4)
 - GEOG 310. Area Study: Africa (4)
 - GEOG 321. Area Study: Latin America (4)
 - HIST 305. Ancient and Medieval Europe (4)
 - HIST 306. Early Modern Europe, the Renaissance to 1815 (4)
 - HIST 307. Modern Europe, 1815 to the Present (4)
 - HIST 410. Hitler's Europe (4)
 - HIST 430. China, 1895-Present (4)
 - HIST 434. East Asia Since World War II (4)
 - HIST 440. Japan, 1868-Present (4)
 - HIST 465. Modern Central America (4)
 - HIST 470. Modern Latin America (4)
 - HIST 503. Europe Since 1945 (4)
 - PSCI 300. Western Political Systems (4)
 - PSCI 306. Developing Political Systems (4)
 - PSCI 308. Government and Politics of the Middle East (4)
 - SOC 382. Sociology of Developing Societies (4)
6. Four units chosen from:
 - ANTH 352. Indians of the Southwest (4)
 - ECON 352. The Economics of Poverty and Discrimination (4)
 - ECON 410. Money and Banking (4)
 - ECON 421. Economic History of the United States (4)
 - ECON 475. Public Finance (4)
 - GEOG 330. Geography of Gender (4)
 - GEOG 415. Urban Planning and Land Development (4)
 - GEOG 440. Understanding the City (4)
 - HIST 391. Chicano History (4)
 - HIST 565. Ethnic Minorities in American History (4)
 - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
 - HIST 567. The Asian-American Experience (4)
 - PSCI 320. The Legislative Process (4)
 - PSCI 326. Political Parties and Interest Groups (4)
 - PSCI 352. Minority Politics (4)
 - PSCI 410. American Constitutional Law (4)
 - PSCI 411. The Bill of Rights (4)
 - PSCI 431. The American Presidency (4)
 - PSCI 450. Political Socialization (4)
 - SOC 359. Law and Society (4)

- SOC 364. Public Opinion and Propaganda (4)
 SOC 410. Racial and Cultural Minorities (4)
 SOC 418. Sociology of Social Welfare (4)
 SOC 432. Political Sociology (4)
 SOC 590. Seminar in Sociology (4)
7. Four units chosen from:
 HIST 350. The American Colonies, 1607-1783 (4)
 HIST 351. The Evolution of American Democracy, 1783-1840 (4)
 HIST 354. Civil War and Reconstruction (4)
 HIST 356. The United States, 1877-1917 (4)
 HIST 357. The United States, 1917-1945 (4)
 HIST 359. The United States Since 1945 (4)
 HIST 540. Constitutional History of the United States (4)
 HIST 556. Foreign Relations of the United States (4)
8. Four units chosen from:
 HUM 325. Perspectives on Gender (4)
 HUM 335. The Origin and Contemporary Role of Latino Culture (4)
 HUM 350. The Cultures of American Childhood (4)
 HUM 370. African Heritage in the Arts (4)
 HUM 380. Comparative Studies in the Arts: East and West (4)
 NSCI 325. Perspectives on Gender (4)
 SSCI 316. Race and Racism (4)
 SSCI 325. Perspectives on Gender (4)
 SSCI 350. Roots of Modern Racism in America (4)
9. A minimum of four units chosen from:
 ECON 335. Economic Analysis with Micro-computers (5)
 ECON 510. Economics in the Classroom (4)
 HIST 490. The Study of History (4)
 HIST 509. United States History in the Classroom (4)
 PSYC 358. Cognitive Development (4)

COURSE OFFERINGS IN SOCIAL SCIENCES (SSCI)

Many of the courses listed below are offered as part of the university's general education program. Some are offered in support of other degree programs.

Lower Division

165. Regions and Peoples of the World

Survey of major regions of the world using general physical and cultural concepts to explain patterns and problems of human activities in relation to natural environments. (GE=D.3) (4 units)

215. Statistics for the Social Sciences

Introduction to statistical methods as applied to the social and behavioral sciences. Includes both descriptive and inferential statistics. A self-paced independent study course. Credit may not be received for more than one of the following courses: MSCI 210, PSYC 210, or SSCI 215. Prerequisite: MATH 110 or equivalent competency. (4 units)

Upper Division

300. Nonwestern World

Historical, political, social, geographic and economic aspects of nonwestern societies. Prerequisite: junior or senior standing. (GE=D.5) (4 units)

304. Contemporary Latin America

Social, economic and political conditions and institutions in contemporary Latin America. Prerequisite: junior or senior standing. (GE=D.5) (4 units)

306. Expository Writing for the Social Sciences

Writing on topics related to the natural sciences, including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly SSCI 495. Graded A, B, C/no credit. Prerequisites: ENG 101 and a minimum of 90 quarter (60 semester) units of college credit. (GE=F.1) (4 units)

309. Family, School and Culture

An overview of family, culture and social stratification and the implications of such for educational settings (including curriculum content and instructional practices). Home-school relations will be discussed. Skills needed for effective communication with diverse families and communities will be included. Five hours field work component required. Prerequisites: EELB 310 and HD 315. (3 units)

315. Cultural Adaptation: The Quest for Survival

An interdisciplinary inquiry into diverse cultural solutions to universal human problems. Topics include alternative cultural provisions for satisfying economic, social, political and religious needs. Prerequisite: junior or senior standing. (GE=D.5) (4 units)

316. Race and Racism

An interdisciplinary and cross-cultural examination of the concepts of race, ethnic group, prejudice and racism which includes studies of changing prejudiced attitudes. Prerequisite: junior or senior standing. (GE=D.5,G.1) (4 units)

320. Understanding Capitalism

Exploration into the origins and nature of capitalism. Focus on the historical development and contemporary structure of the social, political and economic institutions of capitalism. Prerequisite: junior or senior standing. (GE=D.5) (4 units)

321. Urbanization and the Urban Environment

Patterns and processes of urban growth. Major emphasis on reasons for growth of cities; economic, social, political and structural changes in urban areas which accompany urbanization; and a cross-cultural analysis of urban problems. Prerequisite: junior or senior standing. (GE=D.5) (4 units)

325. Perspectives on Gender

This interdisciplinary course uses scientific, humanistic, and social science perspectives to foster an understanding of how gender roles in Western culture are established, maintained and changed. (Also offered as HUM 325 and NSCI 325. Students may receive credit for only one of these courses.) Prerequisite: junior or senior standing. (GE=D.5,G.1) (4 units)

343. Understanding Socialism

Description and analysis of socialism: social, economic, political and historical issues. Prerequisite: junior or senior standing. (GE=D.5) (4 units)

345. Religious Expression in America

Interdisciplinary social science analysis of the relationship among religious belief, religious practices and secular society in American culture. Prerequisite: junior or senior standing. (GE=D.5) (4 units)

350. Roots of Modern Racism in America

An interdisciplinary exploration of the roots of modern racism in America in the decades following the Civil War. The course will focus on the experiences of ethnic men and women and on the concurrent anti-Semitic, anti-Catholic and Americanization movements. The course will focus on the dynamics of these intergroup relations and their legacy for contemporary America. Prerequisite: junior or senior standing. (GE=D.5, G.1) (4 units)

SOCIOLOGY

Department of Sociology

Social and Behavioral Sciences Building, Room 327E
880-5541

Bachelor of Arts

Sociology
Sociology - Social Work Program

Minor

Sociology

Certificate Programs

Gerontology
Social Work

FACULTY: Zeng-Yin Chen, David Decker, James Fenelon, John Heeren, Patricia Little, Marcia Marx, Tom Meisenhelder, Randi Miller, Cliff Paynton (Emeritus), Mary Texeira, Elsa Valdez (Chair)

The sociology major offers a balanced program of study for students interested in pursuing graduate study or in the practical application of sociology. The curriculum is designed to expose the student to the scope and methods of sociology and to provide a broad educational background for understanding the structure and functioning of modern society.

The department also offers an alternate program of study for students interested in pursuing a career in social work and for those interested in enrolling in an M.S.W. graduate program.

As an adjunct to the curriculum, there are two student organizations for sociology majors. The Sociology Club has a varied program of social, community service and academically oriented activities. In addition to general sociology majors, students in human services and students in social work actively participate in the club. A chapter of Alpha Kappa Delta, the sociology honor society, is open to junior sociology majors with a 3.5 grade point average and to seniors and graduate students with a 3.0 grade point average.

B.A. IN SOCIOLOGY

Requirements (63 units)

Total units required for graduation: 180

Requirements for the B.A. in Sociology:

1. SOC 100. The Study of Society (4)
2. SOC 301. Applications in Sociology (4)
3. SOC 307. Social Research I (5)
4. SOC 309. Social Research II (5)
5. SOC 311. Sociological Theory (5)
6. SOC 590. Seminar in Sociology (4)
7. Thirty-six additional units in sociology, 32 of which must be upper-division.

Coursework in the major should be taken in proper sequence. The curriculum has been designed to emphasize the acquisition of cumulative competencies by having students complete foundation courses that give them the skills, frame-

works and knowledge that can be utilized in higher-level courses. Students should consult their advisor for the correct sequence of courses.

B.A. IN SOCIOLOGY - SOCIAL WORK PROGRAM

Requirements (63 units)

Total units required for graduation: 180

Requirements for the B.A. in Sociology - Social Work Program:

1. SOC 100. The Study of Society (4)
2. SOC 301. Applications in Sociology (4)
3. SOC 307. Social Research I (5)
4. SOC 309. Social Research II (5)
5. SOC 311. Sociological Theory (5)
6. SOC 418. Sociology of Social Welfare (4)
7. SOC 434. Community Organization (4)
8. SOC 436. Group Dynamics (4)
9. SOC 484. Social Casework (4)
10. SOC 590. Seminar in Sociology (4)
11. Twenty additional units in upper-division sociology courses, 16 of which must be upper-division.

MINOR IN SOCIOLOGY

Requirements (28 units)

Requirements for a minor in Sociology:

1. Twenty-eight units in sociology course work chosen with the consent of a departmental advisor. Eight of these units may be at the lower-division level.

DEPARTMENTAL HONORS

Students majoring in sociology are eligible to receive honors in sociology at graduation if they have met the following:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Completion of a senior honors project (SOC 597) approved in advance by the department.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for addi-

tional certificate information.

Certificate in Gerontology

Certificate Requirements (28 units)

1. Four units chosen from:
 - HSCI 423. Health and Wellness of Older Adults (4)
 - NURS 454. Anatomical/Physiological Processes of Aging (4)
2. PSYC 329. Psychology of Adulthood and Aging (4)
3. SOC 330. Social Gerontology (4)
4. A minimum of sixteen units of elective courses, chosen with the approval of an advisor from Groups A and B below: (No more than six units in independent study or field study may be applied toward completion of the certificate.)
 - A. Natural Sciences electives:
 - BIOL 223. Human Physiology and Anatomy I (5)
 - BIOL 306. Human Heredity and Development (4)
 - BIOL 314B. Biology of Human Sexuality (4)
 - May choose only one of the following two courses:
 - HSCI 345. Food Science (5)
 - HSCI 362. Principles of Nutrition (4)
 - HSCI 371. Community Health Services (4)
 - HSCI 440. Family Health Issue for Educators (4)
 - HSCI 452. Special Topics in Health Science and Human Ecology: Death and Dying (4)
 - HSCI 492A. Field Study: Action/Research in Human Ecology and Health (5)
 - HSCI 492B. Field Study: Action/Research in Human Ecology and Health (5)
 - HSCI 595. Independent Study (2-4)
 - NURS 455. Chronic Diseases of the Aging Population (4)
 - NURS 456. Adaptation to Chronic Illness (4)
 - NURS 457. Health Services for the Non-Institutionalized Aging Person (2)
 - NURS 595. Independent Study (1-6)
 - B. Social Sciences electives:
 - ANTH 331. Anthropology of Human Development (4)
 - PSYC 575. Internship in Psychology (4)
 - PSYC 595. Independent Study (2-4)
 - SOC 434. Community Organization (4)
 - SOC 575. Internship in Sociology and Social Work (5)
 - SOC 590. Seminar in Sociology: Aging (4)
 - SOC 595. Independent Study (2-5)

Certificate in Social Work

Certificate Requirements (34 units)

1. SOC 100. The Study of Society (4)
2. SOC 339. Socialization (4)
3. SOC 418. Sociology of Social Welfare (4)
4. SOC 434. Community Organization (4)
5. SOC 436. Group Dynamics (4)
6. SOC 484. Social Casework (4)
7. SOC 575. Internship in Sociology and Social Work

(5) for a total of (10)

Note: Internship will be waived for those having one year of social work experience in a social agency.

COURSE OFFERINGS IN SOCIOLOGY (SOC)

Lower Division

100. The Study of Society

Survey of the basic characteristics and dynamics of society and culture from the sociological perspective. (GE=D.4) (SOC 100= CAN SOC 2) (4 units)

110. Choices in the Life Course

Utilization of social research in helping students make choices about life course events, such as career, education and family. (GE=E.2) (2 units)

180. Critical Thinking about Social Problems

Critical thinking skills are developed through a comparison of common sense and social scientific analyses of contemporary social problems. Focus on causal reasoning, common logical fallacies and the distinction between belief and knowledge. (GE=A.4) (4 units)

Upper Division

Prerequisite for upper-division courses is SOC 100, or consent of instructor.

301. Applications in Sociology

Intensive look at sociological research, stressing the application of theory and methods in specific empirical studies. (4 units)

307. Social Research I

Basic concepts and techniques used by sociologists in conducting research. Four hours lecture and two hours laboratory. Formerly SOC 308. Prerequisites: SOC 100 and 180 (or other course that meets the critical thinking requirement of the general education program). (5 units)

309. Social Research II

Application of social measurement techniques, including data collection, data entry and the use and interpretation of the methods of data presentation with the utilization of statistical routines. Involves the use of computers and statistical software in the development of research reports, sociological analysis and modeling. Four hours lecture and two hours laboratory. Formerly SOC 308. Prerequisites: SOC 307 and MATH 110, 115 or 120. (5 units)

311. Sociological Theory

Sources of sociological theory and current trends in sociological analysis. Four hours lecture and two hours laboratory. (5 units)

330. Social Gerontology

Age-status and age-roles in American society, with crosscultural comparisons including intergenerational conflict and other age-related behaviors. (4 units)

336. Black Women and Feminism

Black women in America and their activities on behalf of women's rights; the interplay of racism and sexism within the women's movement. (4 units)

339. Socialization

Theories, goals and processes of childhood socialization and, to a lesser extent, adult socialization. Emphasis on organized social roles as they are mediated through the norms and patterned interactions of institutions; that is, the family, peer groups and the schools. (4 units)

340. Sociology of the Family

A systematic and comparative analysis of family structure and change: marriage, reproduction, childrearing, marital problems. (4 units)

341. Marriage and Family Among Blacks

Forces affecting the black family, with emphasis on the roles assigned to individual members. (4 units)

342. The Chicano Family

Consideration of the traditional and changing Mexican-American family patterns. Regional and social class variations. Influence of the family on Mexican-American personality development from a social-psychological perspective. (4 units)

343. Sociology of Family Violence

The occurrence, causes and effects of family violence as a social phenomenon. Formerly SOC 320. (4 units)

350. Criminology

Causes of crime with emphasis on sociological factors. (4 units)

352. Juvenile Offender

Causes of juvenile delinquency, types of juvenile offenders, the juvenile court, legal aspects of delinquency and methods of rehabilitation. (4 units)

354. Deviant Behavior

Deviant modes of human adjustment to modern society; processes of personal-social interaction in development of individual and group deviation. (4 units)

355. Medical Sociology

Patient's self concept from the pre-patient stage to the post-patient state and the relationship to the social system. Developmental stages in the "sick role" in contemporary society are emphasized. (4 units)

356. Sociology of Mental Illness

Cultural variations in definitions of mental health and illness; social processes involved in defining, labeling and treating mental illness; stigmatizing effects of being labeled mentally ill; relationship of the incidence and treatment of mental illness to class, ethnicity and other sociological categories. (4 units)

358. Punishment and Corrections

History and theories of punishment and treatment in dealing with criminals, sociological analysis of institutional systems and community based systems, work release programs and pre-release guidance centers. (4 units)

359. Law and Society

Social and cultural factors underlying the development, maintenance and change of law, legal structures and legal processes; comparative analysis of legal systems; and sociological consideration of the nature of justice. (4 units)

360. Social Psychology

The study of social interaction as it influences the development of self, role behavior, attitudes and values. Emphasis on symbolic interaction as a school of thought. (4 units)

363. Sociology of Mass Communication

Study of symbolic and organizational aspects of mass communication systems. Special attention to attitudes and beliefs as influenced by the mass media. (4 units)

364. Public Opinion and Propaganda

Nature and bases of public opinion; the social context of propaganda, its bases, its social psychological functions and the techniques of propagandists. (4 units)

368. Sociology of Work

Development of occupational roles with emphasis on race and gender segregation within the labor market; impact of occupations on social institutions. (4 units)

370. Sociology of Popular Culture

Sociological study of leisure and popular culture, including sports and mass media. Analysis of the relationships among popular culture, social structure and social change. (4 units)

375. Sociology of Sport

A sociological study of the relationship of sport to the structure of human societies. Analysis of the role of sport in childhood and adult socialization, and in the defining of social groups, neighborhoods, schools, cities, regions and nations. (4 units)

380. Sociology of Religion

Theoretical analysis of religion as a social institution in complex societies. Structure and functioning of religious organizations, roles and role relationships; types of religious organizations and leadership; relationships of religion to other social institutions; religion and social change. (4 units)

382. Sociology of Developing Societies

Examination of the causes and consequences of the "development of under-development" in the contemporary world-system. (4 units)

410. Sociology of Race and Ethnicity

Social inequality, including gender and class variations in racial and ethnic socialization, experienced by members of racial and cultural groups in the United States. (4 units)

418. Sociology of Social Welfare

Survey of the development and implementation of social welfare policies. Analysis of the impact of different public welfare programs on contemporary social problems. Formerly SOC 318. (4 units)

420. Population and Social Ecology

Social causes and consequences of population growth, decline and relocation. (4 units)

430. Urban Sociology

Nature, causes and consequences of urbanization; metropolitan areas; location and types of cities; social and demographic characteristics of urban populations. (4 units)

431. Sociology of the Inner-City

Explores the impact of economics and social policies on inner-city communities to understand why central cities are at risk of developing serious social problems. Formerly SOC 322. Prerequisite: SOC 430. (4 units)

432. Political Sociology

Examination of political process from the perspective of sociology, exploring in depth the nature, distribution and exercise of power, and related areas of interest. (4 units)

434. Community Organization

Programs of action, operative and proposed, for the organization of the community and the solution of its problems. (4 units)

436. Group Dynamics

Dynamics of primary group relationships, including psychotherapy groups. (4 units)

440. Social Class

Study of social class systems with particular reference to race, ethnicity and gender. (4 units)

441. Black Social Stratification

Caste in America, comparison of black and white stratification, black social mobility. (4 units)

442. Chicano Social Stratification

Variables affecting the social status of the Mexican-American in society, Mexican-American social mobility, social class differences in Mexican-American communities. (4 units)

444. Sociology of Gender

Social inequality, including class and racial/ethnic variations in sex-role organization, in the roles of women and men in contemporary U.S. society. Formerly SOC 344. (4 units)

450. White Collar Crime

Study of America's most costly form of crime and deviance. History, causes, consequences, prevention and explanations of economic crime and abuse of power in the corporate and business world, the professions, trades, the unions and government. May not be taken for credit by students who have received credit for CJUS 450 or 452. (4 units)

484. Social Casework

Process of problem solving used by social work agencies to help individuals to cope more effectively with their problems in social functioning. (4 units)

540. Sociology of Education

Sociological analysis of educational organizations, the relationship of such organizations to culture, social class and power, and the roles of teachers, students and administrators. (4 units)

575. Internship in Sociology and Social Work

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and department. (5 units)

590. Seminar in Sociology

An intensive study of some phase of sociology to be developed by the instructor with the class. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

595. Independent Study

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

597. Senior Honors Project

Original research in an area of sociology, culminating in a major research report. The research project may be a quantitative or qualitative nature. Enrollment limited to students whose formal application for departmental honors is approved. Prerequisite: formal application approved by department chair. (5 units)

Graduate level courses can be found on [Page 514](#).

SPANISH

Department of Foreign Languages and Literatures

University Hall, Room 314
880-5847

Bachelor of Arts

Spanish
Literature Track
Language Track
Business Track

Teaching Credential Program

Spanish

Minor

Spanish

Certificate Programs

Bilingual/Cross-Cultural Studies: Spanish/English
Spanish for Public Services

The study of Spanish at California State University, San Bernardino is based on the recognition that the Hispanic culture in the United States forms an integral part of American society, and that the Spanish language, far from being "foreign," is spoken in nearly all sections of our nation alongside of English. In some areas of Southern California as well as other parts of the United States, speakers of Spanish outnumber those who speak English. Moreover, the importance of the Hispanic culture in the United States is increasing daily as additional immigrants arrive from Latin America.

The knowledge of Spanish for those seeking employment in our region is critical for the fields of teaching, journalism, publishing, advertising, writing, business, law, law enforcement, government, health services, as well as other career opportunities. Even a basic knowledge of Spanish at the SPAN 102 level may increase the probability of employment for these and other fields.

For the non-major of Spanish, the Spanish faculty of the Department of Foreign Languages and Literatures recommends that the student fulfill the general education requirement in the foreign language section by one of the following:

- SPAN 102. College Spanish II (if the student had less than two years of high school Spanish)
- SPAN 150. Intermediate Spanish (for those who had two years of high school Spanish)
- SPAN 155. Intermediate Spanish for Spanish Speakers (for those who have learned Spanish at home or while traveling)

For those advanced students of Spanish, one of the following courses would be an appropriate course to satisfy the general education requirement:

- SPAN 212. Composition
- SPAN 213. Composition for Spanish Speakers
- SPAN 214. Conversation

Additional opportunities for the non-major of Spanish are also available. The Certificate in Spanish for Public Services

provides critical skills in Spanish in the areas of speaking, translating and communication. The Certificate in Bilingual/Cross-Cultural Studies: Spanish/English familiarizes the student with the Hispanic culture in and outside of the United States. The Liberal Studies degree, for those prospective teachers of elementary children K-6, can be enhanced by taking the Spanish Studies Emphasis. This track allows the student to teach in both English and bilingual classrooms. The minor in Spanish, which can be combined with any non-Spanish major, gives the student additional experience in Hispanic culture, literature and linguistics. A double major of Spanish and another subject is also an option.

For the Spanish major, the study of all aspects of Hispanic civilization is available, in both lower and upper-division classes. Those desiring to teach Spanish at the high school level as well as all other students in the program will receive a solid preparation in the culture and language of Spain and Latin America, as well as the Hispanic community within the United States.

B.A. IN SPANISH

Requirements:

Literature Track - 70 units

Language Track - 70 units

Business Track - 78 units

Total units required for graduation: 180

Requirements for the B.A. in Spanish:

Core requirements (45 units)

1. Proficiency in Spanish equal to that of SPAN 150. Intermediate Spanish. All students intending to major in Spanish must take a proficiency examination given during the first two weeks of class. Contact the Department of Foreign Languages and Literatures for more information. Students who need additional work in Spanish may be required to take SPAN 200. Spanish Workshop. SPAN 200 does not count for the major.
2. Four units chosen from:
 - SPAN 212. Composition (4)
 - SPAN 213. Composition for Spanish Speakers (4)
3. SPAN 214. Conversation (4)

Note: Native speakers may challenge this class or take an upper-division Spanish course in its place.
4. SPAN 302. Theory and Practice in Composition (4)
5. SPAN 318. Techniques of Literary Study and Analysis (4)
6. SPAN 320. Special Problems in Spanish Grammar (4)
7. SPAN 371. Cultural and Intellectual Foundations of Hispanic Civilization (4)
8. SPAN 394. Practicum (2) for a total of (4)
9. SPAN 395. Junior Assessment (1)
10. SPAN 402. Advanced Composition (4)
11. SPAN 410. Spanish Peninsular Civilization (4)
12. SPAN 412. Latin American Civilization (4)
13. SPAN 415. Comparative Linguistics: Spanish/English (4)

Literature Track (25 units)

- SPAN 372. Modern Peninsular Literature (4)
- SPAN 373. Modern Latin American Literature (4)
- Four units chosen from:
 - SPAN 400. Masterpieces in Spanish and Spanish American Literature (4)
 - SPAN 435. Chicano Literature (4)
 - SPAN 440. Mexican Literature (4)
- SPAN 514. Seminar in Hispanic Language, Literature or Film (4)
- Spanish language elective
Four units chosen from:
 - SPAN 312A. Techniques for Professional Interpreting and Translating in Spanish: Literature (4)
 - SPAN 312B. Techniques for Professional Interpreting and Translating in Spanish: Public Services (4)
 - SPAN 312C. Techniques for Professional Interpreting and Translating in Spanish: Law (4)
 - SPAN 314. Advanced Conversation (4)
 - SPAN 316A. Spanish for the Professions: Communications (4)
 - SPAN 316B. Spanish for the Professions: Health Science (4)
 - SPAN 316C. Spanish for the Professions: Education (4)
 - SPAN 316D. Spanish for the Professions: Business (4)
 - SPAN 316E. Spanish for the Professions: Law Enforcement (4)
 - SPAN 401. Phonetics (4)
- Elective in any upper-division Spanish course (4)
(SPAN 430. Creative Writing is highly recommended.)
- SPAN 496. Senior Assessment (1)

Language Track (25 units)

- Eight units chosen from:
 - SPAN 312A. Techniques for Professional Interpreting and Translating in Spanish: Literature (4)
 - SPAN 312B. Techniques for Professional Interpreting and Translating in Spanish: Public Services (4)
 - SPAN 312C. Techniques for Professional Interpreting and Translating in Spanish: Law (4)
 - SPAN 314. Advanced Conversation (4)
 - SPAN 316A. Spanish for the Professions: Communications (4)
 - SPAN 316B. Spanish for the Professions: Health Science (4)
 - SPAN 316C. Spanish for the Professions: Education (4)
 - SPAN 316D. Spanish for the Professions: Business (4)
 - SPAN 316E. Spanish for the Professions: Law Enforcement (4)
- SPAN 401. Phonetics (4)
- SPAN 514. Seminar in Hispanic Language, Literature or Film (4)
- Four units chosen from Spanish literature elective.
- Four units elective in any upper-division Spanish course.
(SPAN 575. Internship in Service Learning is highly recommended.)
- SPAN 496. Senior Assessment (1)

Business Track (33 units)

- ACCT 211. Introductory Accounting I (4)
- INFO 101. Introduction to Information Technology (4)
- MGMT 302. Management and Organizational Behavior (4)
- MKTG 305. Marketing Principles (4)
- SPAN 312B. Techniques for Professional Interpreting and Translating in Spanish: Public Services (4)
- SPAN 316D. Spanish for the Professions: Business (4)
- SPAN 496. Senior Assessment (1)
- Eight upper-division units chosen from a specific area in ACCT, INFO, MGMT or MKTG.

TEACHING CREDENTIAL PROGRAM

The Bachelor of Arts in Spanish is approved as a single subject teaching credential program. In addition to the requirements of the major, credential candidates must complete certain prerequisites to the teacher education program. For information about the professional education component, admission to the teacher education program or specific requirements of the single subject waiver program, see [Page 161](#) or contact the Credentials Office (C.A.S.E.).

MINOR IN SPANISH

Requirements (28 units)**Requirements for a minor in Spanish:**

- Proficiency in Spanish equal to SPAN 150. Intermediate Spanish.
Note: Entering students with previous training in Spanish, and those who are native speakers, should contact the Department of Foreign Languages and Literatures for information about advanced placement and credit by examination.
- Twenty-eight additional units in Spanish courses, 20 units of which must be upper-division.

DEPARTMENTAL HONORS

- Earned a 3.5 grade point average in the major.
- Completed at least 45 units of the major at this university.
- Successful completion of an oral and written honors evaluation.

Qualified students should apply for honors recognition during the first week of the quarter in which they are enrolled in SPAN 496. The honors evaluation will take place during SPAN 496. Exceptional performance on the oral and written evaluation may result in the waiving of requirements one and two above.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic

major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Bilingual/Cross-Cultural Studies: Spanish/English

Certificate Requirements (32 units)

Lower-division requirements (4 units)

- SPAN 212. Composition (4)

Upper-division requirements (28 units)

- COMM 304. Intercultural Communication (4)
- SPAN 318. Techniques of Literary Study and Analysis (4)
- Eight units chosen from:
 - ART 328. Mexican Art (4)
 - ART 329. Chicano Art (4)
 - SPAN 400. Masterpieces in Spanish and Spanish American Literature (4)
 - SPAN 415. Comparative Linguistics: Spanish/English (4)
 - SPAN 440. Mexican Literature (4)
 - SPAN 514. Seminar in Hispanic Language, Literature or Film (4)
- Twelve units chosen from:
 - ANTH 354. Cultures of Mexico and Central America (4)
 - ANTH 356. Cultures of South America (4)
 - ANTH 460. Language and Culture (4)
 - HIST 390. History of Modern Mexico (4)
 - HIST 391. Chicano History (4)
 - HIST 470. Modern Latin America (4)
 - IS 460. Aspects of Chicano Culture (4)

Certificate in Spanish for Public Services

Certificate requirements (28 units)

Proficiency in Spanish equal to SPAN 150. Intermediate Spanish or equivalent. Note: Entering students with previous training in Spanish, and those who are native speakers, should contact the Department of Foreign Languages and Literatures for information about advanced placement and credit by examination.

Lower-division requirement (4 units)

- SPAN 212. Composition (4)

Upper-division requirements (24 units)

- SPAN 302. Theory and Practice in Composition (4)
- SPAN 312. Techniques for Professional Interpreting and Translating in Spanish (4)
- SPAN 314. Advanced Conversation (4)
- Four units chosen from:
 - SPAN 316A. Spanish for the Professions: Communications (4)
 - SPAN 316B. Spanish for the Professions: Health Science (4)
 - SPAN 316C. Spanish for the Professions: Education (4)

SPAN 316D. Spanish for the Professions: Business (4)

SPAN 316E. Spanish for the Professions: Law Enforcement (4)

- SPAN 400. Masterpieces in Spanish and Spanish American Literature (4)

- SPAN 415. Comparative Linguistics: Spanish/English (4)

COURSE OFFERINGS IN SPANISH (SPAN)

Lower Division

Courses at the 101, 102 and 150 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

Students who have completed one or more Spanish upper-division courses may not enroll in lower-division courses without the approval of the Department of Foreign Languages and Literatures.

101. College Spanish I

Fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. (4 units)

102. College Spanish II

Further study of the fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish. Continuation of SPAN 101. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. (GE=C.3) (4 units)

150. Intermediate Spanish

Emphasis on oral and written competency at the intermediate level in a cultural context. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. Prerequisite: two years of high school Spanish or equivalent (GE=C.3). (4 units)

155. Intermediate Spanish for Spanish Speakers

Emphasis on reading comprehension, vocabulary building, and writing at the intermediate level in a cultural context. Students may not receive credit for both SPAN 150 and 155. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. Prerequisite: ability to speak Spanish. (GE=C.3) (4 units)

200. Spanish Workshop

An intermediate-level refresher course in the four language skills: oral comprehension, speaking, reading, and writing. Designed to prepare students for the required courses in the core requirements. May not be counted toward fulfilling requirements in the Spanish major or minor. May be repeated for credit, but only four units may be counted toward graduation. Prerequisites: SPAN 150 or the equivalent and consent of Spanish coordinator. (4 units)

212. Composition

Comprehensive review of the principles of Spanish grammar, emphasizing their application to composition for students who have formally learned the language in the classroom and not in a Spanish-speaking environment (outside the classroom). Also offered as SPAN 213, students may not receive credit for both. Prerequisite: SPAN 150 or equivalent. (GE=C.3) (4 units)

213. Composition for Spanish Speakers

Comprehensive review of the principles of Spanish grammar, emphasizing their application to composition for students whose listening and comprehension skills have been developed outside the classroom in a Spanish-speaking environment. Especially designed for students who have completed SPAN 155. Also offered as SPAN 212, students may not receive credit for both. Prerequisite: SPAN 155 or equivalent. (GE=C.3) (4 units)

214. Conversation

Practice of oral Spanish stressing the discussion of current topics, panel discussions, debates, and oral presentations for students who have formally learned the language in a classroom setting and not in a Spanish-speaking environment (outside the classroom). Prerequisite: SPAN 150 or equivalent. (GE=C.3) (4 units)

290. Spanish and Latin American Literature in English

Introduction to Hispanic literature read in English translation. (GE=C.3) (4 units)

Upper Division

Ordinarily, upper-division courses are conducted in Spanish. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

302. Theory and Practice in Composition

Extensive practice in composition and style. Corequisite: must be taken concurrently with SPAN 395. If student fails to receive credit for SPAN 395, both SPAN 302 and 395 must be repeated. May be repeated once for credit after having passed SPAN 395. Graded A, B, C/no credit. Prerequisite: SPAN 212 or 213. (4 units)

312. Techniques for Professional Interpreting and Translating in Spanish

Oral and written practice and methods of translation from Spanish to English and English to Spanish. May be repeated as topics change. Prerequisites: SPAN 302 and 395.

- A. Literature (4 units)
- B. Public Services (4 units)
- C. Law (4 units)

314. Advanced Conversation

Intensive practice of oral Spanish at the advanced level leading to fluency, to the development of a comprehensive, practical vocabulary and to public speaking skills for students who have formally learned the language in a classroom setting and not a Spanish-speaking environment (outside the classroom). Prerequisites: SPAN 302 and 395. (4 units)

316. Spanish for the Professions

Oral and written practice in terminology used in various professions. May be repeated as topics change. Prerequisites: SPAN 302 and 395.

- A. Communications (4 units)
- B. Health Science (4 units)
- C. Education (4 units)
- D. Business (4 units)
- E. Law Enforcement (4 units)

318. Techniques of Literary Study and Analysis

Techniques of literary study and analysis through readings from Spanish and Latin American literature. Formerly SPAN 216. Prerequisites: SPAN 302 and 395. (4 units)

320. Special Problems in Spanish Grammar

Intensive study of selected grammatical problems in Spanish. Three hours lecture and two hours laboratory. Prerequisites: SPAN 212, 302 and 395. (4 units)

371. Cultural and Intellectual Foundations of Hispanic Civilization

Traces the development of Spanish civilization from its roots in the Roman Empire through the period of its overseas expansion to Latin America during the 16th, 17th, and 18th centuries. Prerequisites: SPAN 318, 302 and 395. (4 units)

372. Modern Peninsular Literature

Readings in Spanish peninsular literature of the 18th, 19th and 20th centuries. Prerequisites: SPAN 318, 302 and 395. (4 units)

373. Modern Latin American Literature

Readings in Latin American literature of the 18th, 19th and 20th centuries. Formerly SPAN 392. Prerequisites: SPAN 318, 302 and 395. (4 units)

394. Practicum

Participation in departmental cultural activities. May be repeated for a total of four units. Generally assumes 30 hours of work/study per unit of credit. Graded credit/no credit. Prerequisites: SPAN 213, 302 and 395.

- A. Dramatic Production (2 units)
- B. Student/Faculty Journal (2 units)
- C. Tutoring Center (2 units)
- D. Media Center Service (2 units)

395. Junior Assessment

Oral and written assessment of an independent study project. Corequisite: must be taken concurrently with SPAN 302. Satisfactory completion will be required for enrollment in all other upper-division courses in Spanish (excluding SPAN 435). If student fails to receive credit for SPAN 395, both SPAN 302 and 395 must be repeated. A student who fails SPAN 395 twice will not be permitted to participate in the Spanish major, minor, certificate programs, or upper-division classes required in the Liberal Studies, Spanish Studies program. Graded credit/no credit. (1 unit)

399. Departmental Service Project

Credit for performing academically related tasks within the Department of Foreign Languages and Literatures. No more than six units of credit for Departmental Service Project courses may be applied toward degree requirements. Graded credit/no credit. Prerequisites: SPAN 302 and 395 and consent of instructor. (1 unit)

400. Masterpieces in Spanish and Spanish American Literature

Reading and discussion of selected masterworks of Spanish and Spanish American literature. May be repeated for credit as topics change. Prerequisites: SPAN 318, 302 and 395. (4 units)

401. Phonetics

In depth study of the Spanish sound system. Oral practice and study of general principles of Spanish phonology and dialectology. Three hours lecture and two hours laboratory. Prerequisites: SPAN 302 and 395. (4 units)

402. Advanced Composition

Advanced expository writing in Spanish, including documented research reports and analytical papers. Revision and rewriting will be required. May be repeated for credit. Prerequisites: SPAN 302 with a grade of "C" or better and 395. (4 units)

410. Spanish Peninsular Civilization

Analysis of significant cultural aspects of Spanish civilization. Prerequisites: SPAN 302 and 395. (4 units)

412. Latin American Civilization

Analysis of significant cultural aspects of Latin American civilization. Prerequisites: SPAN 302 and 395. (4 units)

415. Comparative Linguistics: Spanish/English

Application of modern linguistic theory to the problems of second language acquisition in the areas of phonology, morphology and syntax. Emphasis will be given to analysis of the subsystems of English and Spanish. Includes classroom applications. Prerequisites: SPAN 302 and 395. (4 units)

430. Creative Writing

Workshop in writing fiction and poetry, discussion of student writings, and exemplary works by established authors. Prerequisites: SPAN 302, 395 and 402. (4 units)

435. Chicano Literature in Spanish

Literary analysis of selected works by Chicano writers with a special emphasis on historical and contemporary issues. Prerequisite: ability to read and write at the SPAN 150 or 155 level. (4 units)

440. Mexican Literature

Survey of the development of Mexican literature from 1520 to the present. Prerequisites: SPAN 318, 302 and 395. (4 units)

496. Senior Assessment

Creation and submission of a portfolio documenting the student's progress with evidence gathered from upper-division Spanish courses. Assessment of student's oral and written proficiency in Spanish. Majors must take this course prior to enrolling in the last twelve units of the major. Course must be taken prior to the final quarter at CSUSB. Graded credit/no credit. Prerequisite: SPAN 395 and senior standing. (1 unit)

514. Seminar in Hispanic Language, Literature or Film

Advanced study of a single author, a literary movement, a genre, linguistics or film. May be repeated for credit as topics change. Prerequisites: SPAN 318, 302 and 395. (4 units)

575. Internship in Service Learning

Supervised intensive work that requires advanced skills in oral and/or written Spanish in private or public organizations. A total of eight units may be applied toward graduation. Generally assumes thirty hours of work/study per unit of credit. Graded credit/no credit. Prerequisites: SPAN 302 and 395. (Credit to be arranged: 1 to 5 units)

Graduate level courses can be found on Page 514.

SPECIAL MAJOR

Office of the Dean of Undergraduate Studies

University Hall, Room 368
880-5032

B.A. with SPECIAL MAJOR

Requirements (40 units)

Total units required for graduation: 180

Occasionally, students with specialized educational or professional objectives may find that the existing degree programs offered at the university do not satisfy personal needs or career plans and that a carefully structured, interdisciplinary program of study is more appropriate.

The B.A. with Special Major is an interdisciplinary program intended for students with unusual interests and abilities who have the initiative and desire to design their own major with the aid of faculty advisors. The special major is for students whose particular interests, backgrounds, or professional objectives are not served by a traditional degree program. The purpose of these individually-designed special majors is to provide a carefully controlled opportunity for exceptional students to design, with faculty approval, a flexible interdisciplinary course of study that leads to a Bachelor of Arts degree.

Admission normally is limited to students who can design (with the aid of a faculty committee) individualized programs organized around a coherent topic or cross-disciplinary subject that involves two or more departments. Occasionally short-term interests in interdisciplinary programs may be served by more structure and degree plans organized by faculty for groups of students.

The B.A. with Special Major is not intended to bypass normal graduation requirements or to avoid certain requirements of a regular major offered at CSUSB or at other nearby institutions. The self-designed major should not substantially duplicate any existing degree offered at CSUSB. Likewise, a Special Major cannot be developed in areas such as architecture, agriculture, or engineering where the campus lacks the necessary faculty expertise to guide the student and supervise the culminating project. Students must have an overall grade point average of 3.0 including work taken at all institutions and must maintain a 3.0 average in the courses required for the self-designed major.

Although the Special Major is a unique program that suits individual goals, has potential to combine fields and function, and can add distinction to the degree, such an interdisciplinary program may pose professional obstacles and be difficult to explain to graduate schools and employers. Career goals and prerequisites for higher degrees should be reviewed before proceeding with this major.

Interested students should contact the Dean of Undergraduate Studies to begin the application and screening process. Prospective majors should be prepared to present a one-page description and justification of the program which outlines the concepts, goals and objectives to be fulfilled by the Special

Major. If, after discussing the tentative interdisciplinary interests of the student, the Dean of Undergraduate Studies believes the student should be encouraged to prepare a formal application and proposal for a Special Major, a packet of information and forms for justifying and submitting the proposed interdisciplinary curriculum will be provided to the student. If the student has not yet found faculty members who are interested in helping the student develop the curriculum and guide their study, the Undergraduate Dean will suggest possible faculty committee members.

Requirements for the Major:

1. Only regularly matriculated students with a 3.0 overall grade point average may be admitted to the Special Major program.
2. The minimum requirements for a Special Major will be 40 units of carefully structured upper-division work in two or more fields. Additional units beyond the minimum may be required by the faculty committees.
3. The Special Major must be proposed prior to the senior year. A student should have completed no more than 140 units at time of application for the Special Major and have a minimum of 40 units left to complete. While the B.A. degree requires a minimum of 180 units, students seeking approval for a Special Major after reaching upper-division status may find the need for prerequisites and lower-division introductory courses may extend the total number of units completed beyond the minimum of 180.
4. Neither lower-division or upper-division General Education courses may be counted in the major, though they may supplement, strengthen and provide background for the major.
5. The Special Major is not available as a "double major," nor it is available to students pursuing a second bachelor's degree.
6. A culminating experience (project, research paper, or other written documentation) and verification of accomplishment of project is required. Up to four units of credit for this may be built into the requirements of the major.

Application Process:

1. Determine the feasibility of pursuing a Special Major by reviewing the requirements and examining available programs and majors to see if the proposed major could be met though any of these. Explore the resources of the campus needed for a Special Major in terms of course offerings, library resources, facilities, and faculty expertise.
2. Develop a statement of goals and objectives and the interdisciplinary program proposal which specifically addresses the following: What is the purpose or focus of this specially designed major? What skills does the student already have? What additional knowledge is needed? What is the best way to reach the goal? What is the student's career objective? Are there plans for advanced training and study?
3. Consult with the Dean of Undergraduate Studies about the process as well as interests and goals. One week prior to this meeting, the student must submit a written description and justification of the area of study based on

- goals and objectives. The Undergraduate Dean will contact departments and faculty members to discuss the feasibility of this area of study. If the draft proposal is acceptable, forms for formally developing and proposing the degree requirements will be provided.
4. A faculty committee will be appointed at this time based on recommendations of the Undergraduate Dean and appropriate departments. A chair will be elected by the committee. Normally, the faculty committee will be made up of faculty from the departments and disciplines of the interdisciplinary interests, e.g. a program in Arts Management would usually have faculty committee from the arts and business.
 5. Work with the faculty committee to determine the best and most appropriate courses to include in the Special Major. Consideration should be given to prerequisites and lower-division courses needed as preparation for the 40 units of upper-division study required in the Special Major.
 6. The Special Major proposal must be signed by three faculty members who have worked with the student in developing the proposed course of study. The faculty member who will chair the advisory committee must write a statement of support which includes a brief evaluation of the proposal.
 7. On the form provided, list the lower-division support courses which were in preparation for the upper-division component. These may include General Education and transfer courses where appropriate and directly related to your planned area of study.
 8. List the minimum of 40 units of upper-division work to be included in the Special Major. As an interdisciplinary program, these courses should include work from at least two and usually three or more departments. To avoid later difficulties with key courses that are not offered prior to graduation, reasonable substitutions should be listed where possible.
 9. Submit the Special Major proposal along with a copy of transcripts of all college work completed to the Dean of Undergraduate Studies. This proposal will be forwarded to the University Curriculum Committee for consideration. The committee meets regularly throughout the academic year and applications can be submitted at any time, though every effort should be made to turn in the proposal early enough in the term to receive approval prior to registration for the next term. Applications cannot be considered during the summer quarter. (The application materials should be filled out with great care and accuracy. Hastily done or carelessly prepared proposals are unlikely to convince the Curriculum Committee of the seriousness of the proposal.)
 10. In some cases, the University Curriculum Committee may invite students and/or their faculty advisor to discuss the proposal with the committee, especially where clarification or changes are requested.
 11. The Dean of Undergraduate Studies will notify the student in writing of the decision of the University Curriculum Committee. This may be approval, conditional approval based on recommend changes/revisions in curriculum, or disapproval.

12. Any change or substitution of courses in the approved program must be approved by the student's faculty committee appointed and the Dean of Undergraduate Studies.
13. Upon approval of the Special Major proposal, the student may formally declare a Special Major. At graduation, the diploma will show only a B.A. with Special Major, but the transcript will reflect the nature or title of the special interdisciplinary study in this fashion: B.A. with Special Major in (subject area).

B.A. IN SPECIAL MAJOR: ADVERTISING MANAGEMENT

Requirements (84 units)

Total units required for graduation: 180

Requirements for the B.A. in Special Major: Advertising Management

Lower-division requirements (24 units)

1. ACCT 211. Introductory Accounting I (4)
2. ART 120. Introduction to Two Dimensional Design (4)
3. ART 223. Art History: Renaissance to the Present (4)
4. ART 232. Principles of Design Management (4)
5. ART 238. Production of Visual Information Design (4)
6. Four units chosen from:
 - ECON 200. Principles of Microeconomics (4)
 - ECON 202. Principles of Macroeconomics (4)
 - MGMT 100. Introduction to Business and Public Administration (4)

Upper-division requirements (54 units)

1. ART 333. History of Graphic Design (4)
2. ART 342. Graphic Design I (5)
3. ART 343. Graphic Design II (5)
4. MGMT 302. Management and Organizational Behavior (4)
5. MKTG 305. Marketing Principles (4)
6. MKTG 410. Consumer Behavior (4)
7. MKTG 416. Marketing Research (4)
8. MKTG 420. Advertising (4)
9. MKTG 446. Advertising Campaign (4)
10. MKTG 470. International Marketing Management (4)
11. MKTG 496. Marketing Planning and Strategy (4)
12. MKTG 575. Internship in Marketing (4)
13. MKTG 590. Seminar in Marketing (4)

Electives (6 units)

1. Six units chosen from (courses may not have been used to satisfy requirements previously in the major):
 - ART 221. Art History: Prehistoric Times Through the Middle Ages (4)
 - ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
 - ART 301. Topics in Studio Art for Non-Majors (2.5)
 - ART 344. Graphic Design III (5)
 - ART 442. Graphic Design IV (5)
 - ART 443. Graphic Design V (5)

- ECON 200. Principles of Microeconomics (4)
- ECON 202. Principles of Macroeconomics (4)
- MGMT 100. Introduction to Business (4)
- MKTG 496. Marketing Planning and Strategy (4)
- MKTG 575. Internship in Marketing (4)
- MKTG 590. Seminar in Marketing (4)

THEATRE ARTS

Department of Theatre Arts

Creative Arts Building, Room 111
880-5876

Bachelor of Arts

Theatre Arts

Teaching Credential Program

English with a Theatre Arts Concentration

Minor

Theatre Arts

Certificate Program

Children's Theatre

FACULTY: R. Stephen Earnest, Kathryn Ervin, Lee Lyons, Margaret Perry (Chair), William Peterson, Thomas Provenzano, Amanda Sue Rudisill (Emeritus), Johanna Smith

The theatre arts major is a practical liberal arts degree. The broad range of subjects studied enable the theatre student to qualify for a wide variety of fields. Theatre majors are found in the professional areas of live theatre, film, television, corporate and media training, radio, public relations, advertising, business law, teaching, and higher education.

The diverse nature of theatre explores expressions of human interactions and conflict. This study develops intellectual awareness about the human condition. It helps develop skills for working as a theatre artist and as an individual who understands team work.

Liberal studies majors will benefit from a departmental philosophy that good theatre training is also excellent teacher training. Many courses in the department have no prerequisites, and they will help liberal studies students to prepare for careers in elementary and high school teaching.

The Theatre Arts Department produces six major plays during the academic year. The department also presents two to three student directed/designed productions. In addition, the department has two touring groups: The Imagination Players, an elementary school tour; and the Sun Tour, multiethnic theme plays for high school and community college students.

In addition to acting and backstage opportunities, theatre students are encouraged to work with faculty as assistant directors, designers, stage managers, and in theatre administration. Theatre faculty encourage highly motivated and qualified students to develop their own creative efforts. New student play scripts and innovative approaches to theatre are strongly encouraged.

Theatre arts majors choose to concentrate in one of six areas once they have completed a common core of courses: acting, design/technical, dramatic literature, drama education, dance, or musical theatre. Students interested in Children's Theatre, see certificate program described on [Page 347](#).

B.A. IN THEATRE ARTS

Requirements (83-88 units)

Total units required for graduation: 180

Requirements for the B.A. in Theatre Arts:

Lower-division requirements (21 units)

1. TA 235. Fundamentals of Stage Design (4)
2. Two units chosen from:
 - TA 245. Beginning Theatre Movement (2)
 - TA 253. Voice for the Stage (2)
3. TA 251. Acting I: Games and Exercises (3)
4. TA 252. Acting II: Creating a Role (3)
5. Nine units chosen from:
 - TA 131. Makeup for Stage and Screen (3)
 - TA 232. Lighting and Sound (3)
 - TA 233. Costume Construction (3)
 - TA 239. Stagecraft (3)

Upper-division requirements (43 units)

1. TA 302. Analysis of Drama (4)
2. TA 331. Theatre Management (4)
3. TA 346. Directing I (3)
4. TA 351. Acting III: Scene Study (3)
5. TA 361. Theatre History I: Origins Through Medieval (4)
6. TA 362. Theatre History II: Renaissance Through Eighteenth Century (4)
7. TA 363. Theatre History III: Nineteenth Century to the Present (4)
8. Four units chosen from:
 - TA 320A. Performance Practicum: Main Stage (2)
 - TA 320B. Performance Practicum: Imagination Players (2)
 - TA 320C. Performance Practicum: Touring Theatre (2)
 - TA 320E. Performance Practicum: Special Projects (2)
 - TA 320F. Performance Practicum: Dance Performance (2)
9. Four units chosen from:
 - TA 321A. Technical Practicum (1)
 - TA 321B. Technical Practicum (2)
10. Four units chosen from:
 - TA 450. Classical Drama (4)
 - TA 451. Mystery to Melodrama (4)
 - TA 475. Shakespeare I (4)
 - TA 476. Shakespeare II (4)
11. Four units chosen from:
 - TA 401. Musical Theatre (4)
 - TA 455. Modern Drama I (4)
 - TA 456. Modern Drama II (4)
 - TA 457. Theatre of the Avant-Garde (4)
 - TA 461. American Drama (4)
 - TA 462. African-American Theatre and Drama (4)
 - TA 463. Asian Theatre (4)
 - TA 464. Theatre of the Post-Colonial World (4)
12. TA 585. Senior Assessment (1)

Emphases (19-24 units)

Nineteen to twenty-four units chosen from one of the following emphases:

Acting Emphasis (19 units)

- Two units chosen from the following courses, which were not chosen as part of the lower-division core:
 - TA 245. Beginning Theatre Movement (2)
 - TA 253. Voice for the Stage (2)
- TA 312. Oral Interpretation for the Theatre (3)
- TA 345. Advanced Voice and Movement (2)
- TA 352. Acting IV: Modern Repertory (3)
- TA 353. Acting V: Styles of Acting (3)
- TA 354. Acting VI: Acting Shakespeare (3)
- TA 446. Directing II (3)

Dance Emphasis (19 units)

- Twelve units chosen from:
 - DAN 200A. Studies in Dance: Jazz (2)
 - DAN 200B. Studies in Dance: Modern (2)
 - DAN 200C. Studies in Dance: Tap (2)
 - DAN 200D. Studies in Dance: Ballet (2)
 - DAN 300A. Dance Techniques: Jazz (2)
 - DAN 300B. Dance Techniques: Modern (2)
 - DAN 300C. Dance Techniques: Tap (2)
 - DAN 300D. Dance Techniques: Ballet (2)
 - DAN 300E. Dance Techniques: Musical Theatre (2)
- Seven units chosen from:
 - DAN 355. Dance Notation (3)
 - DAN 360. Dance History (4)
 - DAN 450. Choreography (3)
 - DAN 481. Creative Dance in the Classroom (4)
 - TA 240. Improvisation (3)
 - TA 345. Advanced Voice and Movement (2)
 - TA 353. Acting V: Styles of Acting (3)
 - TA 401. Musical Theatre (4)

Design/Technical Emphasis (19 units)

- TA 334. Theatrecrafts (3) for a total of (6)
- Three units chosen from the following which was not chosen as part of the core:
 - TA 131. Makeup for Stage and Screen (3)
 - TA 232. Lighting and Sound (3)
 - TA 233. Costume Construction (3)
 - TA 239. Stagecraft (2)
- Six units chosen from:
 - TA 332. Stage Lighting Design (3)
 - TA 337. Design: Costume Design (3)
 - TA 338. Design: Scene Design (3)
- Four units of upper-division theatre arts electives.

Drama Education Emphasis (19 units)

- DAN 481. Creative Dance in the Classroom (4)
- TA 481. Creative Drama in the Classroom (3)
- Twelve units chosen from:
 - TA 240. Improvisation (3)
 - TA 312. Oral Interpretation for the Theatre (3)
 - TA 320B. Performance Practicum: Imagination Players (2)
 - TA 320C. Performance Practicum: Touring Theatre (2)

- TA 347. Playwriting (4)
- TA 446. Directing II (3)
- TA 483. Children's Theatre (4)
- TA 484. Readers Theatre in the Classroom (4)
- TA 579. Theatre in the Elementary Classroom (4)
- TA 580. Advanced Creative Drama in the Classroom (4)
- TA 581. Theatre in the Secondary Classroom (4)

Dramatic Literature Emphasis (19 units)

- A minimum of seven units chosen from:
 - TA 347. Playwriting (4)
 - TA 446. Directing II (3)
 - TA 450. Classical Drama (4)
 - TA 505. Criticism of Theatre in Performance (4)
- Twelve units chosen from the following courses, which were not chosen as part of the upper-division core:
 - TA 451. Mystery to Melodrama (4)
 - TA 455. Modern Drama I (4)
 - TA 456. Modern Drama II (4)
 - TA 457. Theatre and the Avant-Garde (4)
 - TA 461. American Drama (4)
 - TA 462. African-American Theatre and Drama (4)
 - TA 463. Asian Theatre (4)
 - TA 464. Theatre of the Post-Colonial World (4)
 - TA 475. Shakespeare I (4)
 - TA 476. Shakespeare II (4)

Musical Theatre Emphasis (24 units)

- DAN 300E. Dance Techniques: Musical Theatre (2)
- MUS 120. Theory I (3)
- MUS 121. Theory I: Laboratory (1)
- MUS 122. Theory II (3)
- MUS 123. Theory II: Laboratory (1)
- MUS 240. Voice (4)
- MUS 302. Music Theatre Production (2)
- TA 401. History of Musical Theatre (4)
- Four units chosen from:
 - DAN 200A. Studies in Dance: Jazz (2)
 - DAN 200B. Studies in Dance: Modern (2)
 - DAN 200C. Studies in Dance: Tap (2)
 - DAN 200D. Studies in Dance: Ballet (2)
 - DAN 300A. Dance Techniques: Jazz (2)
 - DAN 300B. Dance Techniques: Modern (2)
 - DAN 300C. Dance Techniques: Tap (2)
 - DAN 300D. Dance Techniques: Ballet (2)
 - MUS 385. Concert Choir (1)
 - MUS 386. Chamber Singers (1)

TEACHING CREDENTIAL PROGRAM

Teaching Credential Program in English - Theatre Arts Concentration

In order to be recommended for the teaching credential in English with a concentration in Theatre Arts (English subject matter program), students must complete the courses listed in the core of the B.A. in English (lower-division requirements 1-3, and upper-division requirements 1-7, see [page 174](#)), as well as the following:

- Four units chosen from:
 - COMM 245. Introduction to TV and Video Production (4)
 - CSCI 127. Introduction to Computer Technology for Educators (4)
- Four units chosen from:
 - ENG 420. Pedagogical Grammar (4)
 - HUM 312. Theories of Language Acquisition and Learning (4)
- Four units chosen from:
 - ENG 306. Expository Writing (4)
 - HUM 306. Expository Writing for the Humanities (4)
- Six units chosen from:
 - TA 131. Makeup for Stage and Screen (3)
 - TA 232. Lighting and Sound (3)
 - TA 233. Costume Construction (3)
 - TA 239. Stagecraft (3)
- TA 251. Acting I: Games and Exercises (3)
- TA 252. Acting II: Creating a Role (3)
- TA 351. Acting III: Scene Study (3)
- TA 346. Directing I (3)
- TA 581. Theatre in the Secondary Classroom (4)

Prior to student teaching, students must demonstrate subject matter competence as assessed by the Department of English. For information about the professional education component, prerequisites for and admission to the teacher education program, or specific requirements for the single subject credential program, see [Page 161](#) or contact the Credentials Office (C.A.S.E.).

Note: Completing the requirements of the teaching credential in English with a concentration in Theatre Arts does NOT in itself satisfy the requirements for the major in either English or Theatre Arts.

MINOR IN THEATRE ARTS

Requirements (24 units)

Requirements for a minor in Theatre Arts:

Lower-division requirement (4 units)

- TA 260. Introduction to Theatre (4)

Upper-division requirement (2 units)

- Two units chosen from:
 - TA 320A. Performance Practicum: Main Stage (2)
 - TA 320B. Performance Practicum: Imagination Players (2)
 - TA 320C. Performance Practicum: Touring Theatre (2)
 - TA 320E. Performance Practicum: Special Projects (2)
 - TA 320F. Performance Practicum: Dance Performance (2)
 - TA 321A. Technical Practicum (1)
 - TA 321B. Technical Practicum (2)

Emphases (18 units)

Eighteen units chosen from one of the following emphases (minimum of seven units must be upper-division):

Acting Emphasis:

- TA 251. Acting I: Games and Exercises (3)
- TA 252. Acting II: Creating a Role (3)
- TA 351. Acting III: Scene Study (3)
- TA 352. Acting IV: Modern Repertory (3)
- Six units chosen from:
 - TA 131. Makeup for Stage and Screen (3)
 - TA 240. Improvisation (3)
 - TA 245. Voice for the Stage (2)
 - TA 253. Beginning Theatre Movement (2)
 - TA 312. Oral Interpretation for Theatre (3)
 - TA 345. Advanced Voice and Movement (2)
 - TA 346. Directing I (3)
 - TA 353. Acting V: Styles of Acting (3)
 - TA 354. Acting VI: Acting Shakespeare (3)
 - TA 357. Acting for the Camera (3)
 - TA 446. Directing II (3)

Dance Emphasis

- Ten units chosen from:
 - DAN 200A. Studies in Dance: Jazz (2)
 - DAN 200B. Studies in Dance: Modern (2)
 - DAN 200C. Studies in Dance: Tap (2)
 - DAN 200D. Studies in Dance: Ballet (2)
 - DAN 300A. Dance Techniques: Jazz (2)
 - DAN 300B. Dance Techniques: Modern (2)
 - DAN 300C. Dance Techniques: Tap (2)
 - DAN 300D. Dance Techniques: Ballet (2)
 - DAN 300E. Dance Techniques: Musical Theatre (2)
- Eight units chosen from:
 - DAN 355. Dance Notation (3)
 - DAN 360. Dance History (4)
 - DAN 450. Choreography (3)
 - TA 131. Makeup for Stage and Screen (3)
 - TA 232. Lighting and Sound (3)
 - TA 233. Costume Construction (3)
 - TA 240. Improvisation (3)
 - TA 253. Beginning Theatre Movement (2)

Design/Technical Emphasis:

- TA 235. Fundamentals of Stage Design (4)
- Six units chosen from:
 - TA 131. Makeup for Stage and Screen (3)
 - TA 232. Lighting and Sound (3)
 - TA 233. Costume Construction (3)
 - TA 239. Stagecraft (3)
- Eight units chosen from:
 - TA 321A. Technical Practicum (1)
 - TA 321B. Technical Practicum (2)
 - TA 331. Theatre Management (4)
 - TA 332. Stage Lighting Design (3)
 - TA 334. Theatrecrafts (3)
 - TA 337. Design: Costume Design (3)
 - TA 338. Design: Scene Design (3)
 - TA 535. Independent Project (1-4)

Drama Education Emphasis

1. DAN 481. Creative Dance in the Classroom (4)
2. TA 481. Creative Drama in the Classroom (3)
3. Eleven units chosen from:
 - TA 240. Improvisation (3)
 - TA 251. Acting I: Games and Exercises (3)
 - TA 312. Oral Interpretation for the Theatre (3)
 - TA 320A. Performance Practicum: Main Stage (2)
 - TA 320B. Performance Practicum: Imagination Players (2)
 - TA 320C. Performance Practicum: Touring Theatre (2)
 - TA 320E. Performance Practicum: Special Projects (2)
 - TA 320F. Performance Practicum: Dance Performance (2)
 - TA 321A. Technical Practicum (1)
 - TA 321B. Technical Practicum (2)
 - TA 385. Acting for Non-Majors (4)
 - TA 483. Children's Theatre (4)
 - TA 484. Readers Theatre in the Classroom (4)
 - TA 579. Theatre in the Elementary Classroom (4)
 - TA 581. Theatre in the Secondary Classroom (4)

Dramatic Literature Emphasis

1. Eight units chosen from:
 - TA 302. Analysis of Drama (4)
 - TA 347. Playwriting (4)
 - TA 450. Classical Drama (4)
2. Ten units chosen from the following with no more than four units chosen from any section A-E:
 - A. TA 463. Asian Theatre (4)
 - TA 464. Theatre in the Post-Colonial World (4)
 - B. TA 455. Modern Drama I (4)
 - TA 461. American Drama (4)
 - C. TA 456. Modern Drama II (4)
 - TA 457. Theatre of the Avant-Garde (4)
 - TA 462. African-American Theatre and Drama (4)
 - D. TA 475. Shakespeare I (4)
 - TA 476. Shakespeare II (4)
 - E. TA 221. Theatre Laboratory: Performance (1)
 - TA 320A. Performance Practicum: Main Stage (2)
 - TA 320B. Performance Practicum: Imagination Players (2)
 - TA 320C. Performance Practicum: Touring Theatre (2)
 - TA 320E. Performance Practicum: Special Projects (2)
 - TA 320F. Performance Practicum: Dance Performance (2)
 - TA 321A. Technical Practicum (1)
 - TA 321B. Technical Practicum (2)

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Children's Theatre**Certificate Requirements (32 units)**

Lower-division requirements (17 units)

1. TA 212. Oral Interpretation of Literature (4)
2. TA 235. Fundamentals of Stage Design (4)
3. TA 239. Stagecraft (3)
4. TA 251. Acting I: Games and Exercises (3)
5. TA 252. Acting II: Creating a Role (3)

Upper-division requirements (11 units)

1. TA 481. Creative Drama in the Classroom (3)
2. TA 483. Children's Theatre (4)
3. TA 484. Readers Theatre in the Classroom (4)

Performance/production (4 units)

1. Four units chosen from:
 - TA 240. Improvisation (3)
 - TA 320A. Performance Practicum: Main Stage (2)
 - TA 320B. Performance Practicum: Imagination Players (2)
 - TA 320C. Performance Practicum: Touring Theatre (2)
 - TA 320E. Performance Practicum: Special Projects (2)
 - TA 320F. Performance Practicum: Dance Performance (2)
 - TA 321A. Technical Practicum (1)
 - TA 321B. Technical Practicum (2)

Note: The following courses may be repeated to fulfill the above requirement in the area of performance/production:

- TA 320A. Performance Practicum: Main Stage
- TA 320B. Performance Practicum: Imagination Players
- TA 320C. Performance Practicum: Touring Theatre
- TA 320E. Performance Practicum: Special Projects
- TA 320F. Performance Practicum: Dance Performance
- TA 321A. Technical Practicum
- TA 321B. Technical Practicum

COURSE OFFERINGS IN THEATRE ARTS (TA)

Lower Division

131. Makeup for Stage and Screen

Theory and application of makeup for theatre, television and film. (TA 131=CAN DRAM 14) (3 units)

160. World Drama

Selected readings of dramatic literature (in translation) from the 5th century B.C. to the present. (Also offered as ENG 160, students may not receive credit for both.) Prerequisite: ENG 101 or equivalent. (GE=C.2) (4 units)

212. Oral Interpretation of Literature

Literary and aesthetic analysis of poetry, prose or drama through performance techniques of oral interpretation. Formerly TA 211. (GE=C.2) (4 units)

221. Theatre Laboratory: Performance

Students direct, choreograph or perform in student-initiated productions, including student-written one-act plays, dance concerts and special performance-art pieces under the guidance of a faculty supervisor. A maximum of five units of TA 221 may be used to satisfy graduation requirements. (1 unit)

232. Lighting and Sound

Basic electrical theory of stage lighting and sound, production techniques, instrumentation and control equipment. (TA 232=CAN DRAM 10) (3 units)

233. Costume Construction

Costume techniques including basic pattern drafting, cutting, fitting and construction of garments. (3 units)

235. Fundamentals of Stage Design

Study of the elements of color, line and texture as they relate to visual analysis of dramatic literature, through two- and three-dimensional projects in set, costume and lighting design. Three hours lecture and two hours activity. (4 units)

239. Stagecraft

Introduction to the theory and practice of scenery and prop construction including the use of tools, materials, techniques and drafting required in execution of designs. (TA 239=CAN DRAM 12) (3 units)

240. Improvisation

A beginning course in improvisational techniques for the actor and for those who will use drama as an educational tool. (3 units)

245. Beginning Theatre Movement

Beginning theory and fundamentals of specialized stage movement. (TA 245=CAN DRAM 20) (2 units)

251. Acting I: Games and Exercises

Foundation training for actors through theatre games, improvisation and exercises for developing expressive freedom, creativity, relaxation and concentration. (TA 251=CAN DRAM 8) (3 units)

252. Acting II: Creating a Role

Fundamentals for creating a role methodically. Improvisational exercises and textual performances exploring the use of such elements as objectives, given circumstances, character analysis and conflict. Prerequisite: TA 251. (TA 252=CAN DRAM 22) (3 units)

253. Voice for the Stage

Theory and practice of vocal techniques for the actor, including voice production, diction, flexibility, projection, and voice care. (TA 253=CAN DRAM 6) (2 units)

260. Introduction to Theatre

An introduction to the basic principles and artistic choices guiding theatre artists. Illustrations will be developed in part from demonstration and participation. Students will be expected to experience theatre as active audience members or production crews. (GE=C.1) (TA 260=CAN DRAM 18) (4 units)

Upper Division

302. Analysis of Drama

Literary analysis of selected plays with special emphasis on how to write about dramatic literature. (Also offered as ENG 302. Students may not receive credit for both.) Prerequisite: ENG 101. (4 units)

312. Oral Interpretation for the Theatre

Techniques for the oral performance of drama, including literary and aesthetic analysis of plays. Prerequisite: TA 212. (3 units)

320. Performance Practicum

Main Stage students experience role preparation, rehearsal and acting before an audience; Imagination Players gain touring experience in rehearsal and performance of children's literature, readers theatre style; Touring Theatre students experience rehearsal and performance of adult dramatic material; special projects students experience production of student-developed projects; dance performance students experience choreography development, rehearsal and dancing before an audience. Open to all students. No more than eight units of Performance Practicum may be counted toward fulfilling course requirements in the theatre arts major. No more than four units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. Each topic may be repeated for credit.

A. Main Stage (admission by audition only) (2 units)

B. Imagination Players (2 units)

C. Touring Theatre (2 units)

E. Special Projects (admission by audition only) (2 units)

F. Dance Performance (admission by audition only) (2 units)

321. Technical Practicum

Application of scenery, costumes, makeup, lighting, sound or stage management theories and techniques to live performance before an audience. Open to all students. No more than 10 units of TA 321 may be counted toward fulfilling course requirements in the theatre arts major. No more than 4 units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts minor. No more than 20 units of TA 320 and 321 may be used to satisfy graduation requirements. Formerly TA 320D.

- A. (1 unit)
- B. (2 units)

331. Theatre Management

Survey of fine arts management principles as they apply to theatre. (4 units)

332. Stage Lighting Design

Basic lighting design theories. Lighting design plots for various theatrical styles will be developed. May be repeated for credit. Prerequisites: TA 232 and 235. (3 units)

334. Theatrecrafts

Theory and application of a theatrecraft such as: stage management, shop crafts, scene painting, millinery, pattern drafting, rendering. Experience with the craft will be provided. May be repeated for credit as topics change. (3 units)

337. Design: Costume Design

Advanced projects in the design of costumes with an emphasis on rendering techniques and stylization. May be repeated for credit. Prerequisite: TA 235. (3 units)

338. Design: Scene Design

Advanced projects in scene design, using both renderings and models. Concentration on an exploration of design styles. May be repeated for credit. Prerequisite: TA 235. (3 units)

345. Advanced Voice and Movement

Advanced theory and practice of voice and movement techniques for the actor. Prerequisites: TA 245 and 253 or consent of instructor. (2 units)

346. Directing I

Fundamentals of play directing through theory and practice. Prerequisites: TA 260 and 351 or consent of instructor. (3 units)

347. Playwriting

Fundamentals of play development to include plot, character, structure, theme, culminating in individual performable scripts. (Also offered as ENG 347. Students may not receive credit for both.) Prerequisite: ENG or TA 302, or consent of instructor. (4 units)

351. Acting III: Scene Study

Application of acting techniques through scene study of plays in the contemporary repertory. Prerequisite: TA 252. (3 units)

352. Acting IV: Modern Repertory

Continued scene study with an emphasis on plays in the modern classical repertory (for example, Ibsen, Chekhov, Shaw). May be repeated once for credit. Prerequisites: TA 312 and 351. (3 units)

353. Acting V: Styles of Acting

Studies and performance of selected styles in theatre from classical times to the nineteenth century. May be repeated once for credit. Prerequisites: TA 312 and 351. (3 units)

354. Acting VI: Acting Shakespeare

Concentrated study on performing Shakespeare, with emphasis on voice, movement, and textual meaning. May be repeated once for credit. Prerequisites: TA 312 and 351. (3 units)

355. Acting VII: Acting Musicals

Concentrated study on performing musical theatre, with an emphasis on voice, dance and character development. May be repeated once for credit. Prerequisite: TA 351. (3 units)

357. Acting for the Camera

Study and application of acting techniques unique to film and video. Prerequisite: TA 351 or 385. (3 units)

361. Theatre History I: Origins Through Medieval

Consideration of theatre architecture and theatre practices for the purpose of understanding the major trends in the development of theatre arts. Representative examples of dramatic literature will be read to illustrate those trends. (4 units)

362. Theatre History II: Renaissance Through Eighteenth Century

Consideration of theatre architecture and theatre practices for the purpose of understanding the major trends in the development of theatre arts. Representative examples of dramatic literature will be read to illustrate those trends. (4 units)

363. Theatre History III: Nineteenth Century to the Present

Consideration of theatre architecture and theatre practices for the purpose of understanding the major trends in the development of theatre arts, including the impact of Asian theatre. Representative examples of dramatic literature will be read to illustrate those trends. (4 units)

385. Acting for Non-Majors

Introduction to acting through exercises, improvisations and scene study. Not open to theatre arts majors. (4 units)

401. History of Musical Theatre

History of musical theatre literature and production. Also offered as MUS 401; students may not receive credit for both. (4 units)

445. The Camera Eye

Film as a creative art medium. Such topics as art direction and production design for film, sex and violence in film, and film and television lighting will be offered. May be repeated for credit as topics change. (4 units)

446. Directing II

Advanced studies in play directing. Prerequisite: TA 346. (3 units)

450. Classical Drama

Development of comedy and tragedy in Greece and Rome. (Also offered as ENG 450. Students may not receive credit for both.) (4 units)

451. Mystery to Melodrama

Development of drama from medieval passion plays to late nineteenth century villain-hissing melodramas. Emphasis on either comedy or tragedy. (4 units)

455. Modern Drama I

European, British and American realism. (Also offered as ENG 455. Students may not receive credit for both.) (4 units)

456. Modern Drama II

European, British and American anti-realism. (Also offered as ENG 456. Students may not receive credit for both.) (4 units)

457. Theatre of the Avant-Garde

Exploration and analysis of performance traditions from Dada to performance art. (4 units)

461. American Drama

Survey of the American theatre and its drama (Dunlap to Odets) as they reflect the changing patterns of American society. (4 units)

462. African-American Theatre and Drama

A survey of the African-American theatre from its African origins in the oral tradition through contemporary trends, including issues of politics, race and gender in terms of the American theatre in general. Emphasis on African-American playwrights, companies and performers within their social and historical contexts. (GE=G.2) (4 units)

463. Asian Theatre

Survey of significant Asian theatre forms from Indian dance-drama to Indonesian wayang kulit. Emphasis on how performance reflects and shapes both culture and identity. (4 units)

464. Theatre in the Post-Colonial World

Dramatic literature and theatre of countries and cultures seeking to redefine their identity in a post-colonial world. Includes study of plays from India, Africa, Canada, South America, Asia and the Pacific Rim. (4 units)

465. Ethnic Films and Film Makers

Analysis, overview and exploration of performers, directors, screenwriters, and designers of films of a particular ethnic group. Emphasis on the artistic contributions of a particular ethnic group to the cinematic art form. May be repeated for credit as topics change. (4 units)

466. Issues in Gay, Lesbian, Bisexual, and Transgender Theatre

An examination of the culturally diverse body of theatre work dealing with Gay/Lesbian/Bisexual/Transgender issues. (4 units)

475. Shakespeare I

Comedies and history plays. (Also offered as ENG 475. Students may not receive credit for both.) (4 units)

476. Shakespeare II

Tragedies and romances. (Also offered as ENG 476. Students may not receive credit for both.) (4 units)

481. Creative Drama in the Classroom

Active experience in leading student-centered improvisation and drama sessions. Concentration, imagination and self-expression are emphasized in lesson planning as creative drama becomes a teaching tool across the curriculum for elementary and secondary teachers as well as community leaders. Designed in accordance with California and National standards for the arts. Six hours of fine arts activity. (3 units)

482. Readers Theatre

Advanced group techniques for oral performance of literature. Includes the preparation and performance of scripts for Readers Theatre, emphasizing Story Theatre and Chamber Theatre. Prerequisite: TA 320B, 346, or 484. (3 units)

483. Children's Theatre

Theory and techniques of selecting, directing and creating plays for young audiences. Course includes script analysis and directing from text as well as developing plays based on children's literature. The course presents approaches to children's theatre in community and educational settings. (4 units)

484. Readers Theatre in the Classroom

Classroom application of group techniques for oral performance and staging of children's literature. Includes the preparation and performance of scripts to be used for reading enhancement and interdisciplinary studies, as well as the creation of original scripts. Formerly TA 382. (4 units)

505. Criticism of Theatre in Performance

Critical analysis of public theatrical performance with an emphasis on the journalistic review. Textual analysis, artistic perception and aesthetic evaluation of acting, directing and design. Both individual and class attendance at several theatrical performances outside of regular meeting times will be required. Prerequisites: TA 302, ENG 306 or consent of instructor. (4 units)

510. Studies of Major Figures and Genres

May be repeated for credit as topics change. (4 units)

520. Theatre Seminar

Literature and theory relative to topics such as: aesthetics, theatre history, drama, dramatic criticism and design. May be repeated for credit as topics change. (4 units)

535. Independent Project

Advanced individual project in any aspect of departmental productions. A total of 6 units may apply toward the major, a total of 12 units may apply toward graduation. Prerequisite: consent of instructor. (Credit to be arranged: 1 to 4 units)

555. Independent Study

Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. A total of 6 units may apply toward the major, a total of 12 units may apply toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (4 units)

575. Internship in Theatre Arts

Supervised study in private or public organizations. A total of 12 units may be applied toward graduation. Generally assumes thirty hours of work/study per unit of credit. Graded credit/no credit. Prerequisite: consent of internship coordinator. (Credit to be arranged: 1 to 6 units)

579. Theatre in the Elementary Classroom

Integrating aesthetic perception with creative expression in the elementary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within an elementary school classroom under the supervision of course instructor and classroom teacher. Prerequisite: TA 481 or 484 or consent of instructor. (4 units)

580. Advanced Creative Drama in the Classroom

Advanced methods of teaching across the curriculum using process-oriented creative drama techniques. Course concentrates on fostering imagination and self-expression through pantomime, improvisation and play making. Course includes developing creative drama/educational units and lesson plans as well as practical experience in an educational setting. Requires a six hour field component including observation and participation in teaching at an approved setting. Prerequisite: TA 481. (4 units)

581. Theatre in the Secondary Classroom

Integrating aesthetic perception with creative expression in the secondary classroom through the application of theatrical performance and production techniques. This course includes 15 service learning hours in which students actually direct and create theatre within a secondary school classroom under the supervision of course instructor and classroom teacher. Prerequisites: TA 302 or ENG 302, and TA 481 or 484. (4 units)

585. Senior Assessment

Student preparation of portfolio and self-critiques of artistic/research projects which document academic progress. Formal presentation of this collected material to be evaluated by peers and faculty. Two hours activity. Prerequisite: senior status; must be taken in spring quarter immediately prior to graduation. (1 unit)

Graduate level courses can be found on [Page 515](#).

**COURSE OFFERINGS IN
DANCE (DAN)**

DAN 200. Studies in Dance (2)

DAN 300. Dance Techniques (2)

DAN 355. Dance Notation (3)

DAN 360. Dance History (4)

DAN 450. Choreography (3)

DAN 481. Creative Dance in the Classroom (4)

See [Page 147](#) for full course descriptions.

UNIVERSITY HONORS PROGRAM

Office of the Dean of Undergraduate Studies

University Hall, Room 368
880-5032

The University Honors Program at California State University, San Bernardino offers specialized courses and other enrichment opportunities for highly motivated students who seek an intellectual challenge. Most honors courses fulfill the general education requirements which all students at the university must meet; however, the curriculum is designed to add depth and breadth to the undergraduate course of study. Honors students are encouraged to take an active role in their own learning process, to think about problems they will face in creating the future, and to explore their roles in addressing these problems. Integration of subject matter across the curriculum is a primary goal of the program. Students will be encouraged to develop thinking skills and to use these skills in analyzing and evaluating problems of contemporary society. Honors students will have:

- Special academic advising;
- The opportunity to participate in honors activities such as lectures, concerts and art exhibits;
- Honors courses in basic skills such as writing, oral communication and critical thinking;
- Honors seminars which promote interaction among students and faculty;
- Honors courses in specific academic disciplines and interdisciplinary areas;
- Extensive library privileges.

Admission to the Program

Incoming freshmen, sophomores, juniors and transfer students who have shown scholastic ability, intellectual promise, and creativity are encouraged to apply for the University Honors Program. Incoming freshmen should have SAT scores of 1100 and/or ACT scores of 26 and above, a grade point average of at least 3.5, and be in the upper tenth of their graduating class. Sophomores, juniors and transfer students who have remained consistently on the Dean's List and/or have maintained a 3.5 overall grade point average in previous course work may apply to the program. In addition, any faculty member identifying a student as one who has the potential to profit from the challenge of the program may sponsor a student into the program, with the approval of the Honors Committee.

UNIVERSITY HONORS PROGRAM

Requirements of the Program:

To remain in good standing in the Honors Program, students are expected to maintain a grade point average of 3.3 ("B+") overall.

Requirements for students who enter the Honors Program as freshmen (38 units)

1. HON 103A. Language and Meaning (4)
2. HON 103B. Language and Meaning (4)
3. HON 103C. Language and Meaning (4)
Note: HON 103A, B and C must be completed before students will be granted general education credit in Written Communication, Oral Communication and Critical Thinking.
4. HON 105A. Honors Colloquium (1)
5. HON 105B. Honors Colloquium (1)
6. HON 105C. Honors Colloquium (1)
7. HON 205A. Honors Seminar (1)
8. HON 205B. Honors Seminar (1)
9. HON 205C. Honors Seminar (1)
10. A senior project in a department (4)
11. Sixteen additional units of which eight must be upper-division, chosen from honors-designated courses.

Requirements for students who enter the Honors Program as sophomores (23 units)

1. HON 205A. Honors Seminar (1)
2. HON 205B. Honors Seminar (1)
3. HON 205C. Honors Seminar (1)
4. A senior project in a department (4)
5. Sixteen additional units of which eight must be upper-division, chosen from honors-designated courses.

Requirements for students who enter the Honors Program as juniors (15 units)

1. HON 205A. Honors Seminar (1)
2. HON 205B. Honors Seminar (1)
3. HON 205C. Honors Seminar (1)
4. A senior project in a department (4)
5. Eight additional upper-division units chosen from honors-designated courses.

COURSE OFFERINGS IN UNIVERSITY HONORS (HON)

Lower Division

103. Language and Meaning

An integrated course in the Honors Program meeting General Education requirements for basic skills in composition, critical thinking, and communication. The course emphasizes using the various basic skills in the process of exploring specific current issues. Prerequisite: acceptance into the Honors Program. (GE=A.1, A.2, A.4)

- A. (4 units)
- B. (4 units)
- C. (4 units)

105. Honors Colloquium

Analysis and discussion of current ideas and events. Freshman students admitted to the Honors Program are required to enroll in the colloquium each of the three quarters of their freshman year. Graded credit/no credit. Prerequisite: acceptance into the Honors Program.

- A. (1 unit)
- B. (1 unit)
- C. (1 unit)

205. Honors Seminar

Research and discussion of current events and ideas. Sophomore students continuing in the Honors Program, as well as students entering the program as sophomores or juniors, are required to enroll in the seminar each of the three quarters. Graded credit/no credit. Prerequisite: acceptance into the Honors Program.

- A. (1 unit)
- B. (1 unit)
- C. (1 unit)

Upper Division**306. Expository Writing**

Advanced expository writing workshop for students in the Honors Program. Writing will include documented research reports, summaries, and analytical papers. Papers and research will be directed toward developing and preparing a final draft report for the senior project. Course fulfills the graduation requirement in writing proficiency. No more than one of the expository writing courses (EDUC 306, ENG 306, HON 306, HUM 306, MGMT 306, NSCI 306, SSCI 306) may be taken for credit. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 306 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Formerly HON 495. Graded A, B, C/no credit. Prerequisites: acceptance into the Honors Program, ENG 101 or HON 103A and a minimum of 90 quarter (60 semester) units of college credit. (4 units)

315. Special Topics

Examination of selected topics for students in the Honors Program. May be repeated for credit as topics change. Prerequisite: acceptance into the Honors Program. (4 units)

598. Honors Senior Project

Provides an opportunity for students to conduct an independent project under faculty supervision. Project may be a lengthy research paper, a public performance, a laboratory experiment, a work of art, or may take other forms. Prerequisites: acceptance into the Honors Program and senior standing. (4 units)

UNIVERSITY STUDIES

Office of the Dean of Undergraduate Studies

University Hall, Room 368
880-5032

The Office of the Dean of Undergraduate Studies offers the following courses in support of other university programs. All courses are listed in the University Studies section of the Schedule of Classes each quarter.

COURSE OFFERINGS IN UNIVERSITY STUDIES (USTD)

25. Academic Study Skills

Designed for the student who needs to work on an independent basis in reading or writing with a developmental specialist or tutor. The course will emphasize comprehension, vocabulary and the writing process after diagnosis of student's needs. Units awarded are not applicable to a baccalaureate degree. May be repeated for credit as topics change. Graded credit/no credit. Prerequisite: consent of Learning Center program coordinator.

- A. English 85 (2 units)
- B. English 95 (2 units)
- C. English 101 (2 units)
- D. English 306 (2 units)
- E. General (2 units)

27. Individualized Study Contract

Designed for the student who needs to work on an independent basis under the direction of a study specialist in order to improve skills such as handwriting or spelling. May be repeated. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. (Credit to be arranged: 1 or 2 units)

37. Introduction to College Study Skills

Introduction to skills needed for success in college, focusing on study strategies such as: time management, listening, note taking and learning from text. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. (4 units)

40. Advanced Notetaking and Organization

Instruction in adaptation of note taking skills across the curriculum with emphasis on editing, organizing and combining notes from text, class, lab, field and library. Organization of content to enhance concentration and memory and improve test taking ability. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. Prerequisite: USTD 37 or consent of instructor. (2 units)

45. College Reading

Instruction in reading comprehension improvement, vocabulary development and some speed reading techniques. May be repeated. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. Prerequisite: consent of the SAIL (Student Assistance in Learning) Program, UH-386. (2 units)

77. Adjunct for Specific Subjects

Taught as a support to specifically designated general education courses in mathematics, social and behavioral sciences and communication studies. The courses emphasize mastery of lecture and textbook content, study skills, and test preparation. May be repeated for credit as topics change. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. Prerequisite: consent of SAIL (Student Assistance in Learning) Program, UH-386. (2 units)

99. Reading Enhancement

Designed for student academically prepared for advanced instruction in the areas of reading comprehension, vocabulary development and speed reading techniques improvement. May include preparation for reading portions of standardized tests such as the CBEST and GRE. May be repeated. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. (2 units)

Lower Division

100. First Year Seminar

Introduces academic and practical skills necessary to succeed at the university. Library, computer facilities, academic procedures, time management and study skills, responsible academic and personal attitudes. Introduces student to higher learning. Modes of instruction are guest speakers, discussion, and assignments and activity. Graded A, B, C/no credit.

- A. Freshman Seminar. May be taken only by new freshman students during their first term of attendance. May not be repeated for credit. (2 units)
- B. Transfer Student Seminar. May be taken only by transfer students during their first term of attendance. May not be repeated for credit. (2 units)

VOCATIONAL EDUCATION

Chaparral Hall, Room 123C
880-5290 [HTTP://VE.CSUSB.EDU](http://ve.csusb.edu)

Bachelor of Science

Vocational Education

Bachelor of Vocational Education (BVE) Degree Program

Master of Arts

Career and Technical Education Option

(Degree requirements can be found on [Page 410](#).)

FACULTY: Ron Pendleton, Joseph Scarcella

Bachelor of Science in Vocational Education

Requirements (48 units)

Total units required for graduation: 186

Admission to the Program

The Bachelor of Science Degree with a major in Vocational Education is designed to provide students who have significant occupational experience the opportunity to have that experience count as partial credit towards a baccalaureate degree. Qualified applicants can have their work experience evaluated and may be awarded up to 45 units of credit for prior learning which will be applied toward the degree.

In order to qualify for these occupational specialty units, students must have three years full-time, paid occupational work experience and one of the following:

1. Successfully pass the National Occupational Competency Examination (NOCE) in a specialization;
2. An Associate of Arts Degree from a regionally accredited institution in an approved vocational subject field;
3. Have a Swan Bill evaluation done by a State Evaluation Committee. (This requires seven years of paid work experience in addition to 1620 hours full time or 1000 hours part time teaching in an approved institutional program.)

Note: Occupational experience evaluation will only be completed for students who have completed at least 16 quarter units at CSUSB.

Occupational work experience credit is based upon the criteria currently stipulated by the state of California. Students not awarded the full 45 units of work experience credit will be required to take additional elective courses or internships to reach the total of 186 units required for the degree. No more than 45 units of credit by exam of any sort (CLEP, DANTE, EEE, etc.) may be counted toward the degree.

Students must have a minimum of three years paid work experience in order to be admitted to this program.

Requirements for Graduation

- A. Students must complete a minimum of 186 quarter units.
 1. At least 45 of these units must be completed as a regularly enrolled student at this university;
 2. At least 60 of these units must be in upper-division course work;
 3. It is recommended that students choose the following courses to fulfill the general education requirements:
 - a. COMM 120. Oral Communication
 - b. MATH 110. College Algebra
 - c. ECON 104. Introduction to Economics
 - d. One of the following (both are recommended):
CHEM 100. Chemistry in the Modern World
PHYS 100. Physics in the Modern World
 4. Up to 45 units may be completed within the occupational specialty and/or in approved electives;
- B. Students must earn a grade point average of 2.0 ("C") or better in all work attempted;
- C. Students must complete the upper-division writing requirement, EDUC 306;
- D. Students must complete the history, constitution and government requirements listed in the general education requirements on [Page 73](#).

Degree Requirements (48 units)

1. ETEC 544. Construction of Instructional Materials (4)
2. EVOC 335. Introduction to Vocational Education (4)
3. EVOC 508. Organization and Structure of Designated Subjects Programs (4)
4. EVOC 509. Personnel Management in Designated Subjects Programs (4)
5. Choose one of the following:
 - EVOC 510. Field Work in Coordination and Supervision of Designated Subjects Programs (4)
 - EVOC 518. Field Work in Designated Subjects (4)
6. EVOC 519. Computer Applications for Vocational Education Teachers (4)
7. EVOC 520. Curriculum Development in Vocational Education (4)
8. EVOC 521. Assessing Vocational Student Progress (4)
9. EVOC 522. Directing and Managing Occupational Programs (4)
10. EVOC 523. Adult Learning Theory (4)
11. Four units chosen from:
 - MGMT 302. Management and Organizational Behavior (4)
 - PSYC 302. Management and Organizational Behavior (4)
12. MGMT 455. Human Resources Management (4)

BACHELOR OF VOCATIONAL EDUCATION (BVE) DEGREE PROGRAM

Requirements (76 units)

Total units required for graduation: 180

Admission to the Program

The Bachelor of Vocational Education (BVE) Degree Program has been designed to provide vocational and occupational teachers who have significant occupational and teaching experience the opportunity to have that experience count as partial credit toward a baccalaureate degree. Qualified applicants can have their work experience evaluated (under provisions of the Swan Bill) and may be awarded up to 60 units of academic credit which will be applied toward meeting the Vocational Arts Major requirements.

Note: In order to qualify for a Swan Bill Evaluation an applicant must have at least five years of paid full-time work experience, at least 1620 hours of full-time or 1000 hours of part-time teaching experience and an appropriate teaching credential.

Applicants must be admitted to the university and should take EVOC 335. Introduction to Vocational Education as soon as possible.

Requirements for Graduation

1. Students must complete a minimum of 186 quarter units of college credit:
 - a. At least 45 of these units must be completed as a regularly enrolled student at this university;
- Note:** Up to 105 quarter units of lower-division course work may be accepted as transfer credit from an accredited community college or other accredited postsecondary educational institutions.
- b. At least 60 of these units must be in upper-division course work;
- c. Eighty-two of these units must be in the area of general education as specified in the general education requirements, [Page 73](#);
- d. Forty-four of these units must be within the vocational arts major. All or most of these units are usually awarded as the result of the Swan Bill Evaluation of the applicant's occupational and teaching experience. At least 20 of these units are counted as upper-division;
- e. Thirty-two of these units must be in the area of professional education and the vocational credential courses (or their equivalent);
- f. Twenty-four of these units will consist of electives;
2. Students must earn a grade point average of 2.0 ("C") or better in all work attempted and 3.0 ("B") or better in all professional education courses attempted;
3. Students must complete the upper-division writing requirement (EDUC 306);
4. Students must complete the history, constitution and government requirements (refer to [Page 76](#));
5. Students must be recommended for graduation by the faculty of the university.

Requirements for the Bachelor in Vocational Education (BVE) Degree:

General Education requirements (82 units)

Vocational Arts Major (44 units), a maximum of 60 units may be awarded by Swan Bill evaluation

Upper-division requirements (32 units)

1. EVOC 335. Introduction to Vocational Education (4)
2. EVOC 501. Principles and Methods for Teaching Designated Subjects (4)
3. EVOC 502. Instructional Support for Teaching Designated Subjects (4)
4. EVOC 503. Contemporary Issues in Teaching Designated Subjects (4)
5. EVOC 504. Principles of Adult Education (4)
6. EVOC 518. Field Work in Designated Subjects (4)
7. EVOC 519. Computer Applications for Vocational Education Teachers (4)
8. EVOC 520. Curriculum Development in Vocational Education (4)

Electives (24 units)

1. Twenty-four units of electives.

COURSE OFFERINGS IN VOCATIONAL EDUCATION (EVOC)

Upper Division

335. Introduction to Vocational Education

Introduction to the history, philosophy, literature and organizations of vocational education. In-depth study of the Swan Bill application process and the Bachelor of Vocational Education degree program. Prerequisite: sufficient work and teaching experience to qualify for a Swan Bill evaluation or consent of instructor. (4 units)

501. Principles and Methods for Teaching Designated Subjects

Application of instructional methodology for designated subjects with emphasis on student performance objectives, lesson planning, teaching methods, educational materials, and evaluation techniques. (4 units)

502. Instructional Support for Teaching Designated Subjects

Examination of instructional support for designated subjects with emphasis on program advisory committees, student placement, facilities planning, budgeting, student organizations, public relations, career advancement and educational philosophy. Prerequisite: EVOC 501 or consent of instructor. (4 units)

503. Contemporary Issues in Teaching Designated Subjects

Examination of contemporary issues in designated subjects with emphasis on individual education plans, basic skills, school law, multicultural activities, special needs students, safety and performance assessment instruments. Prerequisite: EVOC 501 or consent of instructor. (4 units)

504. Principles of Adult Education

History, philosophy and social significance of adult education, especially in California; the adult as a student; investigation of the theories and application of the principles of adult education. (4 units)

508. Organization and Structure of Designated Subjects Programs

Investigation and application of principles of facility planning, budgeting, funding sources and related topics as they apply to designated subjects instructional programs. Prerequisite: a valid designated subjects teaching credential. (4 units)

509. Personnel Management in Designated Subjects Programs

Principles of personnel selection, evaluation, supervision, school law and related topics as they apply to designated subjects instructional programs. Prerequisite: a valid designated subjects teaching credential. (4 units)

510. Field Work in Coordination and Supervision of Designated Subjects Programs

Supervised field work in coordination and supervision of designated subjects programs. Students will contract to perform administrative tasks related to site-based instructional programs. Prerequisites: a valid designated subjects teaching credential and completion of, or concurrent enrollment in EVOG 508 and 509 or consent of instructor. (4 units)

518. Field Work in Designated Subjects

Supervised field work for the Designated Subjects Teaching Credential. Includes lesson planning and instructional delivery in an actual teaching environment with evaluation of teaching performance by the on-site supervisor. Prerequisites or corequisites: EVOG 501 and consent of instructor. (4 units)

519. Computer Applications for Vocational Education Teachers

Application of personal computers to the preparation of written, graphic, data base, telecommunication and interactive media materials used by teachers of vocational, occupational and professional courses. Three hours lecture and two hours laboratory. Lecture and laboratory sections must be taken concurrently. (4 units)

520. Curriculum Development in Vocational Education

Theory and principles of curriculum development as they apply to vocational, occupational and professional courses. Students will develop a complete curriculum for a course that they could teach. Prerequisite: EVOG 501 or its equivalent. (4 units)

521. Assessing Vocational Student Progress

The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Prerequisite: EVOG 520 or consent of instructor. (4 units)

522. Directing and Managing Occupational Programs

Principles and techniques of design, implementation, management and evaluation of training organizations and programs. Prerequisites: EVOG 520 and MGMT 302 or PSYC 302. (4 units)

523. Learning Theory and Instructional Research Applied to Adult Learners

Application of psychological principles to learning processes relevant to adult learners. Focus is on informed decisions about psycho-educational designs which will maximize individual development in cognitive, affective, conative, and psychomotor areas. (4 units)

542. Seminar in Vocational Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

WOMEN'S STUDIES

College of Social and Behavioral Sciences

Women's Studies Program

Social and Behavioral Sciences Building, Room 302
880-5838

Minor

Women's Studies

Certificate Program

Women's Studies

COORDINATOR: Aurora Wolfgang

The university offers a minor and a certificate program in women's studies. Women's studies draws on material from a range of disciplines to explore women's issues, experiences, and concerns, and to re-examine the world from women's perspectives. In order to understand the experiences of all women, the categories of race-ethnicity, class and sexual orientation are critical "lenses" through which women's lives are examined. Having a better understanding of gender inequality then aids our ability to rectify injustices and create a more equitable society.

MINOR IN WOMEN'S STUDIES

Requirements (28 units)

Requirements for a minor in Women's Studies:

1. WSTD 100. Introduction to Women's Studies (4)
2. WSTD 420. Feminist Theory (4)
3. WSTD 425. Women as Agents of Social Change (4)
4. Sixteen units chose from one of the following concentrations:

General Women's Studies Concentration

1. Sixteen units chosen from:
 - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
 - ART 305. Women and Art (4)
 - BIOL 314. Biology of Human Sexuality (4)
 - COMM 401. Gender, Race and Media (4)
 - COMM 411. Women and Communication (4)
 - COMM 585. Topics in Human Communication: Gay/Lesbian Relationships (4)
 - COMM 587. Topics in Mass Communication: Gay/Lesbian Images in Media (4)
 - CJUS 451. Women and Crime (4)
 - ECON 333. Political Economy of Women (4)
 - ENG 319. Studies in Literary Diversity: Gay Literature (4)
 - ENG 319. Studies in Literary Diversity: Lesbian Literature (4)

May choose only one of the following two courses:

- ENG 336. Women Writers (4)
- WSTD 336. Women Writers (4)
- FLAN 320. Masterpieces of Literature: Hispanic Women Writers (4)
- GEOG 330. Geography of Gender (4)
- HSCI 404. Women's Health Issues (4)
- HIST 344. Women in U.S. History: 1620-1865 (4)
- HIST 345. Women in U.S. History: 1865-present (4)
- HIST 395. Topics in History: Women in Chinese History (4)

May choose only one of the following three courses:

- HUM 325. Perspectives on Gender (4)
- NSCI 325. Perspectives on Gender (4)
- SSCI 325. Perspectives on Gender (4)
- PHIL 364. Philosophy of Race and Ethnicity (4)
- PHIL 367. Philosophy and Sexual Politics (4)
- PSCI 340. Sex and Politics (4)
- PSYC 331. The Psychology of Women (4)
- PSYC 349. The Psychology of Gays and Lesbians (4)
- PSYC 375. Seminar in Psychology: Women and Violence (4)
- SOC 336. Black Women and Feminism (4)
- SOC 444. Sociology of Gender (4)
- TA 466. Issues in Gay, Lesbian, Bisexual and Transgender Theatre (4)
- WSTD 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)
- WSTD 300. Feminist Research Methods (4)
- WSTD 390. Topics in Women's Studies (4)
- WSTD 450. Queer Theory (4)
- WSTD 575. Internship in Women's Programs and Services (2) for a total of (4)
- WSTD 595. Independent Study (2-5) for a maximum of (8)

Lesbian, Gay, Bisexual, and Transgender Studies Concentration

1. WSTD 103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (4)
2. Eight units chosen from:
 - COMM 585. Topics in Human Communication: Gay/Lesbian Relationships (4)
 - COMM 587. Topics in Mass Communication: Gay/Lesbian Images in Media (4)
 - ENG 319. Studies in Literary Diversity: Gay Literature (4)
 - ENG 319. Studies in Literary Diversity: Lesbian Literature (4)
 - PSYC 301. Psychology of Human Sexuality (4)
 - PSYC 349. The Psychology of Gays and Lesbians (4)
 - TA 466. Issues in Gay, Lesbian, Bisexual, and Transgender Theatre (4)
 - WSTD 450. Queer Theory (4)
3. Four units chosen from any other Women's Studies course or cross-listed elective.

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Women's Studies

Certificate requirements (28 units)

1. Twenty-eight units chosen from:
 - ANTH 333. Sex and Gender in Cross-Cultural Perspective (4)
 - ART 305. Women and Art (4)
 - BIOL 314. Biology of Human Sexuality (4)
 - COMM 401. Gender, Race and Media (4)
 - COMM 411. Women and Communication (4)
 - COMM 585. Topics in Human Communication: Gay/Lesbian Relationships (4)
 - COMM 587. Topics in Mass Communication: Gay/Lesbian Images in Media (4)
 - CJUS 451. Women and Crime (4)
 - ECON 333. Political Economy of Women (4)
 - ENG 319. Studies in Literary Diversity: Gay Literature (4)
 - ENG 319. Studies in Literary Diversity: Lesbian Literature (4)

May choose only one of the following two courses:

 - ENG 336. Women Writers (4)
 - WSTD 336. Women Writers (4)
 - FLAN 320. Masterpieces of Literature: Hispanic Women Writers (4)
 - GEOG 330. Geography of Gender (4)
 - HSCI 404. Women's Health Issues (4)
 - HIST 344. Women in U.S. History: 1620-1865 (4)
 - HIST 345. Women in U.S. History: 1865-present (4)
 - HIST 395. Topics in History: Women in Chinese History (4)

May choose only one of the following three courses:

 - HUM 325. Perspectives on Gender (4)
 - NSCI 325. Perspectives on Gender (4)
 - SSCI 325. Perspectives on Gender (4)
 - PHIL 364. Philosophy of Race and Ethnicity (4)
 - PHIL 367. Philosophy and Sexual Politics (4)
 - PSCI 340. Sex and Politics (4)
 - PSYC 331. The Psychology of Women (4)
 - PSYC 349. The Psychology of Gays and Lesbians (4)
 - PSYC 375. Seminar in Psychology: Women and Violence (4)
 - SOC 336. Black Women and Feminism (4)
 - SOC 444. Sociology of Gender (4)
 - TA 466. Issues in Gay, Lesbian, Bisexual, and Transgender Theatre (4)
 - WSTD 100. Introduction to Women's Studies (4)

- WSTD 103. Introduction to Gay, Lesbian, Bisexual, and Transgender Studies (4)
- WSTD 300. Feminist Research Methods (4)
- WSTD 390. Topics in Women's Studies (4)
- WSTD 420. Feminist Theory (4)
- WSTD 425. Women as Agents of Social Change (4)
- WSTD 450. Queer Theory (4)
- WSTD 575. Internship in Women's Programs and Services (2) for a total of (4)
- WSTD 595. Independent Study (2-5) for maximum of (8)

COURSE OFFERINGS IN WOMEN'S STUDIES (WSTD)

Lower Division

100. Introduction to Women's Studies

An introduction to the growing body of women's studies scholarship. Includes feminist theories of gender stratification and introduces women's issues, experiences and achievements in a variety of fields. Formerly WSTD 200. (GE=D.3) (4 units)

103. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies

Interdisciplinary overview of the field of lesbian, gay, bisexual, and transgender studies. Explores both historical events and contemporary issues related to LGBT Studies, drawing readings from various academic disciplines including anthropology, the arts, communication studies, history, literature, philosophy, psychology, the sciences, sociology and women's studies. (4 units)

Upper Division

300. Feminist Research Methods

Development and implementation of research (quantitative or qualitative) that explores in depth one or more facets of women's experiences. (4 units)

336. Women Writers

Literary analysis of selected works by women writers, with special emphasis on historical and contemporary issues of women's lives. (Also offered as ENG 336. Students may not receive credit for both.) (4 units)

390. Topics in Women's Studies

Examination of selected topics of current interest in women's studies. May be repeated for credit as topics change. (4 units)

420. Feminist Theory

Survey of feminist theory. Formerly a topic under WSTD 390. Prerequisite: WSTD 200 or consent of instructor. (4 units)

425. Women as Agents of Social Change

Historical and contemporary analysis of women as agents of social change, including responses to gender-based discrimination, consideration of feminist theories of social change and debates over desired directions for the future of societies. Prerequisite: WSTD 200 or consent of instructor. (4 units)

450. Queer Theory

Introduction to queer theory through an examination of key theoretical texts, providing an interdisciplinary survey of theories of sexual diversity within changing historical and cultural contexts. (4 units)

575. Internship in Women's Programs and Services

Supervised work and study in private or public organizations involving women's issues. May be repeated once for credit, a total of eight units may apply toward graduation. Graded credit/no credit. Prerequisite: consent of the Women's Studies Program Committee coordinator. (Credit to be arranged: 2 to 4 units)

595. Independent Study

Investigation of special topics in women's studies that are not covered by the curricular offerings in women's studies or the cross-listed offerings from other departments. No more than eight units of independent study may be applied toward the minor or certificate in women's studies. Prerequisites: junior standing, consent of instructor and approval by the Women's Studies Program Committee coordinator. (Credit to be arranged: 2 to 5 units)

GRADUATE DEGREE PROGRAMS

Office of Graduate Studies

Administration Building, Room 127

880-5058

<http://gradstudies.csusb.edu>

Graduate Studies is a large part of the university. At any given time approximately one quarter of the students attending CSUSB already have bachelor's degrees and are earning certificates, credentials, master's degrees, or are pursuing knowledge for their own pleasure. Graduate Studies offers varied advanced courses of study, including professional programs leading to the world of work, and academic master's degrees preparing the student for the Ph.D. as well as advanced professional degrees, such as medicine and law. Nationally recognized and nationally accredited programs are among the Graduate Studies offerings.

Most classes are offered at convenient hours for working students. Financial assistance, research and travel funds are available, with some special financial aid programs aimed at creating a more diverse university faculty.

The Office of the Dean of Graduate Studies encourages graduate education and works to create programs of quality that respond to the needs of students and of the university's service area. Additionally, the office administers the M.A. in Interdisciplinary Studies, the Ronald E. McNair Postbaccalaureate Achievement Program (see [Page 70](#)) and is responsible for the following functions for all graduate programs:

- Waiver petitions for the Graduate Writing Requirement, the seven-year limit for course work, the 12-unit limit for classification, and leaves of absence
- Petitions by all unclassified postbaccalaureate students
- The CSUSB Student Research Conference
- The Graduate Equity Fellowship Program
- The California Pre-Doctoral Program

The university offers the following graduate programs culminating in master's degrees:

- Art, M.A.
- Biology, M.S.
- Business Administration, M.B.A.
- Communication Studies, M.A.
- Computer Science, M.S.
- Counseling and Guidance, M.S.
- Criminal Justice, M.A.
- Education, M.A.
- Educational Administration, M.A.
- English Composition, M.A.
- Health Services Administration, M.S.
- Interdisciplinary Studies, M.A.
- Mathematics, M.A.
- National Security Studies, M.A.
- Nursing, M.S.
- Psychology, M.A., M.S.
- Public Administration, M.P.A.
- Rehabilitation Counseling, M.A.
- Science, M.A.T.
- Social Sciences, M.A.
- Social Work, M.S.W.

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

The **M.A. in Art** provides for further study in one or more of ten studio areas and investigates issues in contemporary art. The program is offered in the Visual Arts Center, which includes the Robert V. Fullerton Art Museum.

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

The College of Business and Public Administration offers two master's degrees. The **Master of Business Administration (M.B.A.)** is internationally accredited by the Association for International Management Education. It provides professionals with advanced skills and competencies necessary to manage and lead business enterprises in a global competitive economy. The **Master of Public Administration (M.P.A.)** is designed to enhance the decision-making and leadership skills of mid- to senior-level administrative and political officials in the government and nonprofit sectors. The M.P.A. is nationally accredited by the National Association of Schools of Public Administration and Affairs (NASPAA).

The **M.A. in Communication Studies** is designed to prepare students for their professional careers in the multicultural business, educational, political and social environment of the 21st century. It also provides them with the opportunity to emphasize areas of career interest such as mass communication, public relations, organizational communication, or other areas of communication study.

The **M.S. in Computer Science** provides students with the professional expertise to enable them to assume high responsibility positions in business, government, and education in the areas of computer and information systems, giving them the capability to undertake research and development using abstract models and theories.

The **M.S. in Counseling and Guidance** is a professional program preparing students to become educational counselors. The degree program is designed to fulfill all the California State requirements for school counseling in grades K-12, so that a graduate will concurrently receive the M.S. and the California Pupil Personnel Services Credential.

The **M.A. in Criminal Justice** is designed to serve individuals in the criminal justice system who desire postbaccalaureate education, as well as those in more traditional public and private employment who may wish to acquire further education in criminal justice. The degree program offers two options. One is a thesis option designed for students who intend to pursue graduate studies beyond the M.A. level and those students who have special research interests in the criminal justice system. The examination option is designed for students with administrative and management goals.

The **M.A. in Education** offers options in bilingual/cross-cultural education; career and technical education; curriculum and instruction; environmental education; instructional tech-

nology; kinesiology; English, history and Spanish (for secondary teachers); middle grades; reading/language arts; special education; and teaching English to speakers of other languages as well as a new combined language, literacy, and culture (primary language) option and BCLAD credential. The College of Education also offers credential programs designed to prepare students to teach in a variety of settings. In addition to the multiple, single and designated subjects credentials, specialist and services credential programs also are available.

The **Educational Administration M.A.** program prepares individuals to assume leadership roles in school administration, school business management, curriculum development, and supervision of personnel and instruction.

The English Department offers an **M.A. in English Composition**. There are three concentrations available. The English Composition Program is designed for individuals interested in pursuing studies in the teaching of composition and will also benefit those who need expertise as writers of grants, interpreters of public policy, editors and others interested especially in nonfiction prose. The option in English Literature allows students an option to focus on advanced studies in literature as well as composition. The option in Teaching English as a Second Language prepares students for teaching in high school and college ESL programs.

The **M.S. in Health Services Administration** is designed to meet the need for professionals trained in the management and planning of health care services. The program has three major objectives: 1) to enable students to integrate health science, health services, management and planning skills; 2) to develop the ability to conduct independent research; and 3) to provide the intellectual stimulation and scholarly atmosphere aimed at developing leaders in the field.

An **M.A. in Interdisciplinary Studies** allows a student with unusual educational or vocational objectives to draw from several departments to meet a specific need. The option in Integrative Studies is designed for experienced K-12 teachers. The option in Integrated Marketing Communication is designed to combine advertising, public relations and marketing in communication decisions. The option in E-Marketing Communication and New Media focuses on the development of comprehensive electronic marketing and communication. Information on these programs are available from the Dean of Graduate Studies.

The **Master of Arts in Mathematics** is a flexible two-track program. The Community College Teaching/General track provides a broad background in mathematics and the Mathematics Education track is designed for well-prepared teachers at the K-12 level. All core courses are offered in the late afternoon and evening, elective courses are also offered during the day.

The **M.A. in National Security Studies** is a professionally oriented academic program designed for those who desire to understand the principles and practices of national and international security in contemporary international affairs.

The **M.S. in Nursing** is designed to educate practicing nurses for leadership and service in culturally diverse, pluralistic communities. The clinical focus is on advanced community-based nursing practice. Graduates will be prepared for advanced certification in community health nursing or home health nursing. Students select a functional role concentration of nurse educator or clinical case manager.

The Department of Psychology offers an **M.S. in Psychology** with concentrations in clinical/counseling and industrial/organizational, in addition to an **M.A. in Psychology** with three areas of specialization: general-experimental, life-span development, and child development.

The nationally accredited **M.A. in Rehabilitation Counseling** is a two-year professional program preparing students to be certified rehabilitation counselors who will work with a wide variety of disabled persons in different settings preparing them for job placement.

The three tracks of the **Master of Arts in Teaching** with a major in Science (Elementary, Middle and High School) accommodate teachers in the elementary grades, in middle schools and in high schools. A strong laboratory component and an integrated science approach reflect recommendations of the California Commission on Teacher Credentialing. Most science content courses are track specific, while core courses cover general topics such as the history, philosophy and role of science.

The **M.A. in Social Sciences** is designed primarily for secondary school teachers who wish to expand or update their knowledge of the social sciences. The program emphasizes the fields of greatest importance to secondary school teaching, but electives allow the student to sample the breadth of the social sciences.

The nationally accredited **Master of Social Work (M.S.W.)** prepares professional social work practitioners who are committed to understanding and serving those most in need of help.

Detailed requirements of each program are listed by department in the graduate studies section of the catalog.

Latest details on the status of new programs may be obtained from the appropriate school or department or from the Office of the Dean, Graduate Studies.

General Requirements for Admission

The minimum requirements for admission of postbaccalaureate and graduate students to 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 admitted with unclassified postbaccalaureate standing must: 1) have completed a four-year college course of study and earned an acceptable baccalaureate degree at an institution accredited by a regional accrediting association or have completed equivalent academic preparation as determined by appropriate campus authorities, 2) have been in good standing at the last college or university attended, 3) have attained a grade-point average of at least 2.5 in the last 90 quarter (60 semester units) units attempted, and 4) satisfactorily met the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe.

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

be directed to the graduate coordinator of the appropriate master's program or if there is no specific graduate degree in mind, to the Dean of Graduate Studies.

Categories of Admission

Graduate and postbaccalaureate applicants may apply for a degree, a credential or certificate, or may not have a program objective. Depending on their objective, an applicant seeking admission to postbaccalaureate and/or graduate study at the university must be accepted in one of the following categories:

Unclassified Postbaccalaureate Standing.

Students wishing to enroll in courses at the university with a professional growth objective, but not necessarily with an objective of a graduate degree or a teaching credential, may be considered for admission with unclassified postbaccalaureate standing when they meet standards specified under General Requirements. Some departments may restrict enrollment of unclassified students because of heavy enrollment pressure. No more than 12 units of credit earned in unclassified standing may be used to demonstrate fitness to complete the program or may be counted toward meeting requirements for a graduate degree. Such units will be accepted only upon approval of the department in which the student is taking a degree. Admission to the university with unclassified postbaccalaureate standing does not constitute admission to, or assurance of consideration for admission to, any credential or graduate degree program.

Classified Postbaccalaureate Standing (including Teaching Credentials).

Students who have satisfied the general requirements for admission may be granted classified standing for the purpose of enrolling in a particular postbaccalaureate credential or certificate program. They must also satisfy such additional professional, personal, scholastic and other standards as are prescribed for the program, including qualifying examinations.

Postbaccalaureate students interested in working toward a multiple subject credential, a single subject credential, a services credential or a specialist credential must achieve classified standing. Credential candidates should check credential requirements for minimum grade point average with the appropriate credential program found in the education program section beginning on [Page 154](#).

Information concerning admission requirements for the designated subjects credentials may be obtained from the Credentials Office (C.A.S.E.) or from the designated subjects coordinator. International students in this status are eligible for an I-20 visa.

Conditionally Classified Graduate Standing.

Students who have satisfied the general requirements for admission, but who have deficiencies in prerequisite preparation which can be met by specified additional preparation, including qualifying examinations, may be admitted to a graduate degree curriculum with conditionally classified graduate standing. These deficiencies must be corrected in the specified manner in order for a student to continue in the graduate degree program. International students in this status are eligible for an I-20 visa.

Classified Graduate Standing.

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

Continuous Enrollment.

To retain classified standing in a master's program after all course work is completed, a student must remain in continuous enrollment in an Extended Enrollment (698) course in their discipline until a project, thesis or comprehensive examination is completed. See *Culminating Experience: Exam, Thesis or Project*, Page 367 for further explanation.

Admission of Graduates with Three-Year Baccalaureate Degrees from Foreign Universities

Applicants for graduate study who have completed baccalaureate degrees at foreign universities which require at least 15 years but less than the equivalent of 16 years of formal education must complete a minimum of 45 quarter units of additional work upon admission to California State University, San Bernardino as an undergraduate student. Thirty of the 45 units must come from courses in the Colleges of Arts and Letters, Social and Behavioral Sciences and Natural Sciences that are included in the university's general education requirements; 24 units must be taken outside the category of the major. The exact allocation of units by category must be approved by the Office of Academic Programs. The other 15 units may, if appropriate, be used to satisfy the prerequisites for the student's intended major. Once the courses are completed, the student must reapply to the university as a postbaccalaureate student. Does not apply for students seeking a credential.

Graduate and Postbaccalaureate TOEFL Requirement

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 in a country 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). Some programs may 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 programs may require higher scores.

Admissions Procedures

1. All students, including graduating seniors from this university, who plan to enroll as postbaccalaureate or graduate students (e.g., master's degree applicants, those

seeking credentials, and those interested in taking courses for personal or professional growth) for the first time during any regular academic quarter (fall, winter or spring), must file a formal graduate application as described in the graduate and postbaccalaureate admission booklet for admission and a \$55 nonrefundable application fee. Applicant's seeking a second bachelor's degree should submit the undergraduate application for admission.

- Former graduate students of the university must apply for readmission if: a) they have been absent for more than two quarters including summer term immediately preceding the quarter for which readmission is sought, or b) they have attended other colleges during their absences from California State University, San Bernardino. Students who have attended other colleges during their absences must submit official transcripts from those institutions. Students who have been absent for three quarters or more must again pay the \$55 application fee.

Requests for information regarding admission and all completed application materials should be directed to the Office of Admissions and Student Recruitment, Attention: Graduate Admissions, California State University, San Bernardino, 92407. Applications are accessible on the World Wide Web at <http://www.csumentor.edu/>.

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

Requirements for a Master's Degree Program

The following standards apply to all master's degree approved graduate programs:

- The program must include at least 45 quarter units of upper-division and graduate course work (i.e., courses numbered 300-699) taken while in postbaccalaureate standing. At least 70% of this work must be in courses organized primarily for graduate students (courses numbered 500-699).
- The program must include 70% or more quarter units of course work taken in residence on this campus. Previous work taken in summer session on this campus may be counted as residence credit. Credit by examination and credit for extension work are not considered as residence study.
- Except for students with coursework from accredited graduate social work programs, the program may not include more than 30% total program units in extension and transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.
- The program must follow the department curriculum in effect at the time the student is officially admitted (classified) in the major program or at the time the program is

filed with the program graduate coordinator. Recommendations for any substitutions to the program must be approved in writing by the advisor and attached to the program.

5. All courses taken to satisfy the requirements for the degree must be completed with a minimum grade point average of 3.0 ("B") or better, except that a course in which no letter grade is assigned shall not be used in computing the grade point average.
6. The program must include only courses with grades of "C" (2.0) or better. (Grades of "C-" (1.7) or less cannot be used.)
7. The program may not include more than 12 quarter units of work taken in unclassified status or before classified status was attained.
8. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and the completion of all requirements for the degree.
9. Courses numbered 100 to 299 and in the 1000 to 9999 series cannot be applied toward a master's degree. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree.
10. A course taken at another college with a grade such as CR, S, or P cannot be accepted on a master's degree study plan unless such a course with such a grade is accepted by that college or university toward a graduate degree.
11. Graduate Entrance Writing Requirement. Graduate students will be required to pass (or to have passed) the upper-division writing requirement before being fully classified into a graduate program, unless an earlier completion is specified for a particular program. This requirement can be satisfied through one of the following:
 1. Completion, with a grade of "B" (3.0) or better, within seven years prior to acceptance into the program of one of the following courses: EDUC 306, ENG 306, HUM 306, MGMT 306, NSCI 306, or SSCI 306 (all graduate and postbaccalaureate students, regardless of citizenship, whose preparatory education was principally in a language other than English and have a minimum score of 550 on the TOEFL, or a minimum score of 213 on the Computer Based TOEFL, who fail to achieve a grade of "B" (3.0) or higher in one of the 306 courses will be required to retake any 306 class).
 2. Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another college or university within seven years prior to acceptance into the program.
 3. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university, taken within seven years prior to acceptance into the program.

Graduation Writing Requirement. Once students are classified in a graduate program, they must meet the writing requirement for that master's degree. Each program has identified what the student must do to satisfy this requirement.

Further information about the WREE examination (for example, how much it costs, when it is offered, what it covers) is available from the Testing Center, Jack Brown Hall, Room 405 (880-5041). Contact the Office of the Dean of Graduate Studies (880-5058) for questions about the graduate writing requirement as it relates to postbaccalaureate students.

Advancement to Candidacy

Students pursuing an advanced degree through the university should, before completing 20 quarter units toward the degree (36 quarter units for programs over 70 units), prepare and file an official document titled "an approved graduate program" with the department from which they plan to receive the degree. This program lists the specific requirements to be completed before the degree can be awarded. It must be approved by the student's major advisor and the graduate coordinator of the student's program. Once the program is accepted and approved, the student is officially advanced to degree candidacy.

Standards for Graduate Study

In general, graduate study deals with more complex ideas and demands more sophisticated techniques, searching analysis and creative thinking than undergraduate study. Extensive research is required in both primary and secondary sources, and high quality writing is expected. The student is advised to consider these factors when deciding the amount of course work to be undertaken during any one quarter. Postbaccalaureate students will be held to all prerequisites for all courses.

All students are required to maintain a 3.0 ("B") grade-point average in all courses taken to satisfy the requirements for the degree, except that a course in which no letter grade is assigned shall not be used in computing the grade point average.

In addition, basic teaching credentials, single or multiple subject, accept no grade lower than a "B-" in all work attempted with the exception of the designated subjects credential which requires a 2.5 grade point average in all work.

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

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

Students in unclassified postbaccalaureate standing and students seeking a second bachelor's degree must maintain a 2.5 grade point average in all work attempted. Students in this category who are dismissed from the university for failure to maintain these standards must petition the Dean of Graduate Studies for readmission to the university.

Readmission of Previously Disqualified Students

After receiving notice of disqualification, a student may petition the graduate coordinator for readmission to the university on probation. All petitions for readmission must be submitted to the graduate coordinator according to the following schedule:

<u>Petition for:</u>	<u>Petition on file on or before:</u>
Fall	August 1
Winter	November 1
Spring	February 1
Summer	May 1

Admission by Special Action and Probationary Status

An applicant who does not meet university requirements for admission may be admitted by special action by the graduate coordinator of the program the student wishes to enter, or if unsure, by the Dean of Graduate Studies. Such admission may be in a probationary status, if in the opinion of the graduate coordinator, the student is likely to succeed in the program.

Ordinarily, consideration for probationary status is granted only to mature applicants who, while their total college record does not meet the admission requirements, have demonstrated sufficient ability through recent academic work or other means.

Students admitted on probationary status are subject to the probation and disqualification regulations as stated on [Page 56](#). A student admitted on probationary status may be restricted by the graduate coordinator to a limited program.

Administrative Academic Disqualification

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

Retroactive Withdrawal

Requests for withdrawal from a course(s) following the close of the term (retroactive withdrawal) will be considered only for: accident or illness (physical or mental), serious personal or family problems, or military transfer. Documentation is required. In addition, extenuating circumstances must be shown to have prevented withdrawal in a more timely fashion. Partial withdrawal of grades during a term is not permissible for any reason. All courses must be withdrawn and will be noted with a "W" on the official transcript. Lack of awareness of the withdrawal procedures is not an extenuating circumstance.

Employment-related reasons are not acceptable.

Requests by undergraduates and unclassified postbaccalaureate students must be made in writing to the Director of Advising and Academic Services, UH-380. Requests by credential candidates and graduate students must be made in writing to the Dean of Graduate Studies, AD-127.

Full Time Academic Load

Full time academic status for a postbaccalaureate or graduate student requires a course load of 12 weighted units, following the unit loads used for veteran certification (see table on [Page 370](#)). For most graduate students this load equates to two 500- or 600-level courses.

Course Overloads: To enroll in more than 16 units in any one quarter, a student must have approval of the graduate coordinator of his/her graduate program. Course Overload Permit Cards are available at the Records, Registration and Evaluations Information Center, UH-171 and from the department office. Students who must work to support themselves, who have time-consuming family responsibilities, who commute long distances, or who are in other difficult circumstances should, in conjunction with their advisors, weigh these factors and alter their course loads accordingly. Financial aid recipients should consult the Financial Aid Office for their definition of eligibility.

Late Registration

The dates of late registration each term will be announced in the class schedule. The university calendar, Pages 4-5, lists registration dates. Late registrants may find themselves handicapped in arranging their programs due to closed classes. A \$25 late registration fee is required.

Adding Classes

Beginning with the first day of the late registration period, all students may add classes, subject to appropriate approvals, continuing up to and including the last day to add classes. (See the Class Schedule.)

Grade/Grievance/Complaint Procedures

Information concerning academic or nonacademic matters may be obtained from the Office of Advising and Academic Services. Generally, a grade grievance must be initiated by the student within no more than 40 calendar days after the grade is recorded. The complete policy statement is available from the Associate Dean of Undergraduate Studies, AD-183.

Information concerning non-academic grievances and discrimination complaints against the university and its employees by a student may be obtained from the Office of the Vice President for Student Affairs, UH-231, the Women's Resource Center, the Adult Re-Entry Center, the Cross-Cultural Center, Vice Presidents' offices, and College Deans' offices. A grievance or complaint must be filed within no more than 40 calendar days after the student learned or reasonably should have learned of the occurrence of the grievance/complaint event. These policies can also be accessed at: <http://studentaffairs.csusb.edu/policies.html>.

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same graduate curriculum in the university may, for the purposes of meeting graduation requirements, elect to meet 1) those requirements in effect at the time the student is admitted into a formal graduate program and enters the curriculum, or 2) those requirements in effect at the time of graduation from the university. Substitutions of or for discontinued courses may be authorized or required by the department or college graduate committee and by the Dean of Graduate Studies.

Two Master's Degrees

Students who wish to secure two different master's degrees may do so. At the discretion of the program, credits from one master's degree may be applicable to a second master's degree up to the maximum number of transfer units allowed within each program. In no case shall a student be awarded a given master's degree more than once.

Culminating Experience: Exam, Thesis, or Project

Comprehensive Examinations: Each program that offers the comprehensive examination for the master's degree shall implement and maintain in writing explicit guidelines that address both content and procedures relating to the examination. All comprehensive examinations must conform to the following requirement of Title 5, i.e., "A comprehensive examination is an assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. The results of the examination provide evidence of independent thinking, appropriate organization, critical analysis, and accuracy of documentation. A record of the examination questions and responses shall be maintained in accordance with the records retention policy of the California State University."

Students must fulfill all department/division requirements for the written and/or oral comprehensive examinations. Such requirements include, but are not limited to, the date and time for the comprehensive examinations, length of testing, topics covered, and number of questions for the comprehensive examinations.

Students whose program requires a comprehensive examination must declare to their major department/division, at least one quarter in advance, their intent to take it, obtain department/division permission, and register for the appropriate comprehensive examination course in their major discipline. Students must consult with their program advisor regarding specific requirements for the comprehensive examination. Those who do not pass the comprehensive examination must fulfill any department, division, and/or college requirements for subsequent enrollments in these examinations.

Extended Enrollment (Comprehensive Exam). Students who have completed all course work and are preparing for the comprehensive examination, must remain in continuous enrollment until their degree is granted. To maintain continuous enrollment, students must register each quarter for the 698 course (698 Extended Enrollment) in their major disci-

pline. There are two ways by which students may register for 698.

1. Students may register for 698 through the regular university, which provides access to all university facilities and services.
2. Students may enroll in 698 through the College of Extended Learning, which gives access only to the student's professor and the university library.

IMPORTANT NOTE: Enrollment in 698 through the College of Extended Learning is only for those students who have completed all their course work within their master's program and are preparing to take the comprehensive examination. In addition, students enrolled in 698 through the College of Extended Learning are generally not eligible for financial aid, which requires university enrollment with at least four graduate units. Students should check with the Financial Aid Office for specific details.

Thesis and Project Requirement: Students who choose to write a thesis or project as their master's degree culminating experience should consult "A Guide to Graduate Studies: Policies, Procedures & Thesis and Project Format," copies of which are available in the university library for reference or for purchase from the Graduate Studies Office and Coyote Bookstore. It is also available on the web at <http://gradstudies.csusb.edu>. It provides information about the following: procedures, regulations, and responsibilities governing the master's thesis or project; general requirements for thesis/project preparation and acceptance; and format requirements for the thesis/project. In addition, students must obtain specific department/division requirements from their advisor.

Extended Enrollment (Thesis and Project). Students who have completed all course work and are working on the thesis/project must register for the thesis or project course required in their major discipline for the master's degree. **IMPORTANT NOTE:** Students register **ONLY ONE TIME** for the thesis/project course. If the thesis/project is not completed in the quarter in which the student first registered for the thesis/project course, then the student will receive a grade of SP (Satisfactory Progress) for the course for that quarter. The SP grade in the course remains until the thesis/project is completed and approved by the student's thesis/project advisor and the Dean of Graduate Studies, at which time the student's professor will submit a "Change of Grade" form, replacing the SP grade with a letter grade.

In addition, students who have completed all course work and are enrolled in a thesis/project course must also register every quarter for the 698 course (698 Extended Enrollment) in their major discipline until their degree is granted. There are two ways by which students may register for 698.

1. Students may register for 698 through the regular university, which provides access to all university facilities and services.
2. Students may enroll in 698 through the College of Extended Learning, which gives access only to the student's professor and the university library.

IMPORTANT NOTE: Enrollment in 698 through the College of Extended Learning is only for those students who have completed all the course work within their master's program and are working on the thesis/project. In addition, students enrolled in 698 through the College of Extended Learning are generally not eligible for financial aid, which requires

university enrollment with at least four graduate units. Students should check with the Financial Aid Office for specific details.

Once officially accepted and processed, master's theses and projects are made available to the public through the Library.

Graduation Requirement Check

Candidates for degrees to be awarded must request a graduation requirement check at the Office of Records, Registration and Evaluations at least one quarter before the term of their expected graduation. Advancement to Candidacy is needed before the graduation check can be completed.

Deadlines and fees for filing are published in the catalog and in the *Class Schedule*.

Students not completing their degree in the term applied for will need to refile and pay for the later term. Access to registration for terms subsequent to the stated graduation will not be granted until the graduation check is refiled.

Commencement

Participation in commencement activities is voluntary. CSUSB has two commencement exercises, one in December and one in June.

December 2002

Summer 2002, prospective December 2002 and March 2003 candidates are eligible to participate in the December 2002 commencement exercise. In order to get commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in October.

June 2003

December 2002, March 2003 and prospective June and September 2003 candidates are eligible to participate in the June 2003 commencement exercises. In order to get commencement information to all eligible students, the deadline to file a graduation check and be included in the commencement program is the last working day in April.

Students who do not file graduation checks within the specified time period may still participate in commencement but will not have their names included in the commencement program. Appropriate information will be sent to students. Graduates and candidates wishing to participate in the commencement ceremony will be required to pay a \$20 commencement fee. Questions regarding commencement should be directed to the Academic Affairs/Academic Resources commencement office, 880-7050.

Palm Desert Campus

The Palm Desert Campus holds one Commencement exercise in June. The commencement fee is paid at the Palm Desert Campus. Questions regarding this exercise should be directed to the Palm Desert Campus Administrative Office (760) 341-2883. Palm Desert Campus graduates have the option of also participating in the main campus exercises.

Credential Students.

Students completing a Multiple Subject, Single Subject, or Education Specialist Basic credential during September 2002 through August 2003 are eligible to participate in a Credential Recognition Ceremony rather than commencement. Only one Credential Recognition Ceremony will be held in June 2003. Specific information can be obtained in the College of Education Office, FO-182.

Change in Approved Graduate Program

If during graduate study a master's candidate wishes to change the approved program by adding or removing a course, this may be done under certain circumstances. A request for such a change must be initiated by the student and approved by the graduate coordinator.

Credit by Evaluation (Examination)

A graduate program, while building upon course work previously completed, should be used to acquire new knowledge and skills. Acquisition of units through credit by evaluation, on the other hand, relies inherently on old knowledge and skills. Therefore, prerequisite courses and other requirements outside of the formal program may be challenged, but units gained through credit by evaluation cannot be included within the formal program of study.

In cases where a graduate student may possess the necessary knowledge and skill and wishes to challenge a course within the formal program of study, a petition must be submitted sequentially to the instructor of the specific course, the department or school graduate committee, and the Dean of Graduate Studies. Contingent to approval of the petition by the Dean of Graduate Studies is the condition that an additional course be added to the formal program as elective credit to replace each course that is successfully challenged through credit by evaluation.

Students may not enroll in a course they plan to challenge but must register for credit by examination in the office of the college or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first two weeks of the term. Those students who are unsuccessful in challenging may add the course subject to the regulations for adding a class printed in the quarterly Class Schedule. A student who passes an examination is given the grade of CR for that course. No official record is made of failures in these examinations. A fee may be charged for these examinations, and they are available only to currently enrolled students.

Phi Kappa Phi

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

Graduate Council

The coordinators of each graduate program, the Dean of Graduate Studies, the President of the Faculty Senate and the President of the Council of Graduate Students make up the Graduate Council. This group discusses all issues of policy and practice related to graduate study at the university.

A Guide to Graduate Studies: Policies, Procedures and Thesis Project Format

A book is published each year by the Office of the Dean of Graduate Studies with information relevant for graduate students.

Council of Graduate Students

The Council of Graduate Students is made up of at least one student representative from each graduate program. The Council serves as the voice of graduate students on campus and sponsors a number of activities and events supporting graduate education throughout the academic year.

Concurrent Enrollment

A graduate student enrolled at the university may enroll concurrently for additional courses at another institution only with advance written approval from the graduate advisor and the Dean of Graduate Studies. Ordinarily, permission will not be granted when the study load in the proposed combined program exceeds 16 quarter units.

Financial Aid Eligibility in Unclassified Postbaccalaureate Status

Unclassified postbaccalaureate students, since they are not in a degree program, are not eligible for financial aid. Students taking prerequisite courses under the direction of a graduate program in preparation for entrance at the master's level, are eligible for one year of loans (at the freshman rate). Unclassified postbaccalaureate students are not eligible for state university grants since they do not pay a state university fee.

Postbaccalaureate Credit for Seniors

All course work (numbered 300 or above) completed in the final quarter before graduation that is not required for the bachelor's degree will automatically be considered postbaccalaureate credit unless the student petitions otherwise. These courses may not necessarily be accepted in a graduate program. Consult the graduate coordinator of the master's program in question. Petitions are available in the Office of Records, Registration and Evaluations.

Repeat of Course (Discount of Grade)

Classified and conditionally classified graduate students may be permitted to repeat one course at CSUSB that was taken for graduate credit (i.e. that is applied towards a master's degree) one time only by petition to and approval of the college or department graduate committee. The petition requesting this permission includes an automatic request to discount the first attempt. When approved, the original course grade on the student's permanent record will be discounted. Only the last grade earned shall apply to the student's cumulative postbaccalaureate grade point average. The first attempt will show on the transcript with the repeat (discount) noted.

Classified and conditionally classified graduate students may be permitted to repeat a course taken as an undergraduate once with approval of the advisor and only to remove a deficiency. A subsequent repeat must be approved by the college or department graduate committee. In no case shall such credit be counted toward the units required for a master's degree. The last grade earned shall apply toward the student's cumulative postbaccalaureate grade point average and shall not replace the grade in the undergraduate record.

Classified postbaccalaureate students (for example, students officially admitted to teaching credential programs) may be permitted to repeat a course taken as an undergraduate only by petition to and approval of the appropriate college or department committee and the grade earned shall not replace the grade in the undergraduate record. Courses taken for postbaccalaureate credit may be repeated at CSUSB only by petition to and approval of the appropriate college or department committee. In both cases the last grade earned shall apply to the student's cumulative postbaccalaureate grade point average.

Unclassified postbaccalaureate students may be permitted to repeat a course taken as an undergraduate. However, the grade earned shall not replace the grade in the undergraduate record. Unclassified postbaccalaureate students who are taking courses that are not part of a graduate degree program and who are not pursuing any degree objectives are subject to the same repeat of courses regulations as undergraduates. Courses taken for postbaccalaureate credit by an undergraduate as defined under "Postbaccalaureate Credit for Seniors," may be repeated at CSUSB only by petition to and approval of the Dean of Graduate Studies. In both cases, the last grade earned shall apply to the student's postbaccalaureate grade point average.

Leave of Absence

Any student who plans to be absent from the university for more than two terms, including summer, must file a leave of absence to preserve the student's current catalog rights (Title 5, Article 5, Sec. 40401). A petition must be filed by a graduate student and approved at the Office of the Dean of Graduate Studies.

The leave of absence policy covers interruptions which are involuntary (medical) or voluntary (military, personal or planned educational leave) if related to the graduate student's educational objective. With an approved leave of absence, the student may be absent from the campus without losing rights to specific degree requirements under an earlier catalog, which may be more advantageous for the student.

Petitions for leave of absence should be filed in advance of the interruption in enrollment with their program office. While medical and military leaves may be considered retroactively if supported by individual circumstances, planned educational leaves cannot since they constitute an agreement or "contract" which must be set in advance.

An application for readmission must be filed by students returning from leaves of one or two terms only if another college or university was attended during the absence.

Students returning from a medical or military leave of absence of more than two terms must file an application for admission and must also pay the current application fee. The maximum duration of a planned educational leave is two calendar years, with no application fee charged at readmission.

within the two-year limit. Applications for readmission must be filed within the term of return. Filing periods for fall term begin the preceding November 1, for winter term the preceding June 1, for spring term the preceding August 1 and for summer term the preceding February 1.

Students who do not return to CSU, San Bernardino at the conclusion of their planned leaves and those who enroll elsewhere without permission of the Office of Records, Registration and Evaluations will be considered to have withdrawn from the university at the end of their last term of regular enrollment.

Leaves of absence will not be approved for students subject to disqualification or dismissal due to academic deficiencies or disciplinary action. Disqualified students reinstated immediately or readmitted after one term may retain catalog rights.

Students not completing any degree applicable course work or who are enrolling only in Summer Session or extension courses or who are auditing courses are not eligible for leaves of absence.

Medical Leave of Absence: requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. No limit exists on the number of terms of absence allowed, except that leaves for pregnancy are restricted to the term of delivery unless verified medical circumstances indicate a longer time is required for a recuperation. An application fee is charged at readmission for a leave of three or more terms.

Military Leave of Absence: requests must be accompanied by a copy of military orders indicating induction date. Twelve terms of absence are the maximum that can be approved. An application fee is charged at readmission for a leave of three or more terms.

Planned Educational Leave of Absence: is defined as a planned interruption or pause in a student's regular education during which the student temporarily ceases his or her formal studies at CSU, San Bernardino to pursue other activities that contribute to particular educational goals and objectives. This will not jeopardize the rights and privileges normally associated with continuous attendance. The student must plan to return to CSU, San Bernardino at the end of the leave. Such activities may be for the purpose of clarifying or enriching educational goals and may include travel for educational purposes, on-the-job experience in the area of vocational or educational opportunities, or undertaking expanded responsibilities in an activity related to the student's educational or career goals.

Since students will maintain their catalog rights as when they left, they **MUST** take courses that would transfer back. Therefore, a student must also file a concurrent enrollment form with the Office of Records, Registration and Evaluations for prior approval of the courses they plan to take. Students under an educational leave who do not file a concurrent enrollment form and who take courses which are not transferable, will fall under any revised major requirements when they return. No application fee is charged at readmission for a leave within the two year limit with an approved Planned Educational Leave of Absence. Postbaccalaureate students pursuing a second bachelor's degree are eligible for a leave of absence.

Transcripts

Applicants for unclassified postbaccalaureate standing must furnish official transcripts from each college or university attended. A separate transcript from each college or university is required even though one transcript may show work taken at another institution.

Applicants for classified postbaccalaureate standing (teaching credentials), or conditionally classified and classified graduate standing must furnish two official transcripts from each institution attended.

Admission from Nonaccredited Schools

Graduates of nonaccredited schools who give evidence of unusual promise and superior background may petition the Dean of Graduate Studies for admission as unclassified postbaccalaureate students. Such students who wish to enter a specific graduate program must then petition the appropriate school or department for admission to conditionally classified graduate status. Requirements for admission to conditionally classified status shall be determined by the concerned department and approved by the Dean of Graduate Studies.

Limitations of Enrollment

Entrance of postbaccalaureate students to any program may be subject to limitations (i.e., each master's degree or credential program may restrict enrollment whenever limitations of facilities and/or staff warrant).

Veterans Information and Enrollment Certification

California State University, San Bernardino, is approved for the training of veterans of the military services and their dependents under educational assistance programs, established by the state and federal governments. Applications for educational benefits may be obtained directly from the veterans certification clerk. Student enrollment certification is based on the following unit loads:

Full time.....	12 weighted units
determined as follows:	
500- and 600-level course weighted at 1.5 units	
300- and 400-level course weighted at 1.0 units	
100-200 no certification unless course is stated condition for admission to a graduate program	
3/4 time	9.0 to 11.5 weighted units as determined above
1/2 time	6.0 to 8.5 weighted units as determined above

The university will certify course loads to the Veterans Administration based on the criteria above for units which are degree or objective applicable. Veterans enrolled less than half time are eligible for reimbursement of tuition and fees only.

Independent study and self-paced courses will be certified for monthly educational benefits as regular residence courses.

Full-Time Equivalency—This weighted-unit chart is used to calculate full-time status for graduate students.

ANTHROPOLOGY

Department of Anthropology

Social and Behavioral Sciences Building, Room 327J
880-5502

The following courses are offered in support of various graduate degrees offered at this university.

COURSE OFFERINGS IN ANTHROPOLOGY (ANTH)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

666. Cultural Resource Management

Study of cultural resources in the context of planning. Focus will be on data sources, environmental review and historic evaluation. (2 units)

695. Independent Graduate Study

Graduate-level independent study in anthropology for students in the program for the Master of Arts in Interdisciplinary Studies or in other graduate programs. A total of eight units may apply toward graduation. Prerequisites: consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

ART

Master of Arts in Art

Department of Art

Visual Arts Center, Room 105
880-5802

FACULTY: Susan Beiner, Kurt Collins, Teresa Cotner, Leo Doyle, James Gobal, Richard Johnston, Julius Kaplan, Sant Khalsa, George McGinnis, Tom McGovern, Joe Moran (Chair), Billie Sessions

MASTER OF ARTS IN ART

Requirements (45 units)

The Master of Arts in Art is designed to provide opportunities for further study in one or more of the studio areas within the department. The objectives of the program are to foster the artistic growth and competence of the individual, to provide the preparation for a professional career in the visual arts, and to provide a basis for further graduate study in the field. The program will also serve the needs of art instructors in the public schools who wish to pursue further study and enhance their skills.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate standing are:

1. A baccalaureate degree from an accredited institution with a minimum of 45 quarter units of upper-division art comparable to those required of a major in art at this university;
2. Completion of a minimum of 20 quarter units of upper-division work in the area of specialization for the Master of Arts degree program;
3. Completion of a minimum of 20 quarter units in art history, a minimum of eight to be upper-division units;
4. A grade-point average of 3.0 ("B") or better in all art courses taken;
5. Completion of the graduate entrance writing requirement;
6. Admission to the program will additionally be based upon evaluations by the Art Department graduate committee of the following:
 - a. Three letters of recommendation supporting the student's application. Letters should be from people able to assess the student's competence in art and to make relevant comments on the student's likely success in a graduate art program; and
 - b. A portfolio review of creative work supported by a statement of purpose submitted by the applicant. Portfolio review dates are in April for the following fall quarter, October for the following winter quarter, and January for the following spring quarter.

Applicants who have satisfied the general requirements for admission, but who have deficiencies in prerequisite preparation which can be met by specified additional preparation may be admitted to the program with conditionally classified

standing. They will be advanced to classified standing when the Art Department graduate coordinator certifies that they have satisfied all appropriate requirements.

Advancement to Candidacy

"Candidacy" denotes that the student is fully qualified to complete the final stages of the Master of Arts program in Art, and is thus eligible to enroll in ART 695. Master's Project. To be formally advanced to candidacy, the student must have:

1. Completed the graduate entrance writing requirement. Students are urged to complete this requirement as early in their program as possible, and prior to taking any art history course work in the department;
2. Achieved classified status;
3. Been accepted by an area advisor to supervise the course of study;
4. Completed, with the approval of the Art Department graduate coordinator, at least 15 quarter units of applicable course work at this university, and achieved a minimum grade of "B" (3.0) in these courses;
5. Successfully completed an advancement review conducted by the Department of Art graduate committee and graduate coordinator;
6. Filed a program of graduate course work prepared in consultation with the student's area advisor and approved by the Art Department graduate coordinator.

Requirements for Graduation:

1. A minimum of 45 quarter units of approved graduate-level work, with at least 32 completed at this university;
2. A grade of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree requirements;
3. Completion and exhibition of an acceptable project, and submission of a report and documentation of the project approved by the student's graduate committee and the Art Department graduate coordinator;
4. The graduation writing requirement is met upon successful completion of the written report that accompanies the master's project in ART 695;
5. Any general requirements not cited above and noted on [Page 364](#).

Deficiencies must be made up as early in the program as possible, normally within the first 20 units after conditional admission.

Degree Requirements (45 units)

1. ART 520. Contemporary Art, Theory and Criticism (4)
2. ART 525. Seminar in Art History (4)
3. ART 595. Independent Study (in area of concentration) (5)
4. Fifteen units in a single area of concentration chosen from:

ART 602A.	Graduate Studio in Art: Ceramics (2.5)
ART 602B.	Graduate Studio in Art: Graphic Design (2.5)
ART 602C.	Graduate Studio in Art: Drawing (2.5)
ART 602D.	Graduate Studio in Art: Glass (2.5)
ART 602E.	Graduate Studio in Art: Intermedia (2.5)
ART 602F.	Graduate Studio in Art: Painting (2.5)
ART 602G.	Graduate Studio in Art: Photography (2.5)

- ART 602H. Graduate Studio in Art: Printmaking (2.5)
- ART 602J. Graduate Studio in Art: Sculpture (2.5)
- ART 602K. Graduate Studio in Art: Woodworking (2.5)
- ART 605A. Graduate Studio in Art: Ceramics (5)
- ART 605B. Graduate Studio in Art: Graphic Design (5)
- ART 605C. Graduate Studio in Art: Drawing (5)
- ART 605D. Graduate Studio in Art: Glass (5)
- ART 605E. Graduate Studio in Art: Intermedia (5)
- ART 605F. Graduate Studio in Art: Painting (5)
- ART 605G. Graduate Studio in Art: Photography (5)
- ART 605H. Graduate Studio in Art: Printmaking (5)
- ART 605J. Graduate Studio in Art: Sculpture (5)
- ART 605K. Graduate Studio in Art: Woodworking (5)
5. ART 610. Graduate Tutorial in Art (1) for a total of (3)
6. ART 620. Graduate Studio Critique (1) for a total of (3)
7. ART 630. Professional Practices in the Visual Arts (2)
8. ART 695. Master's Project (4)
9. Five units of electives appropriate to the student's goals. Courses may be chosen from upper-division and graduate offerings of any department in the university subject to prior approval by the student's area advisor and the Art Department graduate coordinator.

COURSE OFFERINGS IN ART (ART)

Upper Division

510. Colloquium in Art

Inquiry into problems of art history, aesthetics and art criticism. May be repeated for credit. Prerequisite: consent of instructor. (4 units)

520. Contemporary Art, Theory and Criticism

An examination of selected major movements of contemporary art, and recent art theory and criticism. Formerly ART 459 and 625. Prerequisite: a minimum of 12 units in art history. (4 units)

525. Seminar in Art History

Historical perspectives on specific art disciplines including research methods in art history for studio artists. Prerequisite: a minimum of 12 units in art history. (4 units)

575. Internship

Supervised work in a private or public setting which provides professional experience in the field of art. May be repeated for a maximum of 10 units in the major. Prerequisite: consent of instructor. (Credit to be arranged: 1 to 5 units)

595. Independent Study

Studio and/or library research conducted under the direction of a faculty member. May be repeated for credit, a total of ten units may apply toward graduation. Materials fee required.

Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

602. Graduate Studio in Art

Investigation of advanced studio problems focusing on the development of individual directions. Materials fee may be required. Prerequisite: admission to the M.A. in Art program. Corequisites: concurrent enrollment in ART 610 and 620.

- A. Ceramics (2.5 units)
- B. Graphic Design (2.5 units)
- C. Drawing (2.5 units)
- D. Glass (2.5 units)
- E. Intermedia (2.5 units)
- F. Painting (2.5 units)
- G. Photography (2.5 units)
- H. Printmaking (2.5 units)
- J. Sculpture (2.5 units)
- K. Woodworking (2.5 units)

605. Graduate Studio in Art

Investigation of advanced studio problems focusing on the development of individual directions. Materials fee may be required. Prerequisite: admission to the M.A. in Art program. Corequisites: concurrent enrollment in ART 610 and 620.

- A. Ceramics (5 units)
- B. Graphic Design (5 units)
- C. Drawing (5 units)
- D. Glass (5 units)
- E. Intermedia (5 units)
- F. Painting (5 units)
- G. Photography (5 units)
- H. Printmaking (5 units)
- J. Sculpture (5 units)
- K. Woodworking (5 units)

610. Graduate Tutorial in Art

Individual consultation with faculty concerning studio research. A maximum of three units may be applied to the M.A. in Art. Graded credit/no credit. Prerequisite: admission to the M.A. in Art program. Corequisite: concurrent enrollment in ART 602 or 605. (1 unit)

620. Graduate Studio Critique

Critique and discussion of individual student work. Graded credit/no credit. A maximum of three units may be applied to the M.A. in Art. Prerequisite: admission to the M.A. in Art program. Corequisite: concurrent enrollment in ART 602 or 605. (1 unit)

630. Professional Practices in the Visual Arts

The various roles of the artist in our society, portfolio development and selection of art markets, legal and financial issues in the production and protection of art, and postgraduate professional development. Prerequisite: admission to the M.A. in Art program. (2 units)

695. Master's Project

Preparation and exhibition of works produced in the student's area of emphasis. A report and documentation of the project required. Open only to students who have been advanced to candidacy. Prerequisite: successful completion of advancement review conducted by the Department of Art graduate committee and graduate coordinator. (4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

BIOLOGY

Master of Science in Biology

Department of Biology

Biological Sciences Building, Room 329
880-5305

FACULTY: Nicole Bournias, Klaus Brasch, Herbert Brunkhorst, Richard Fehn, James Ferrari, Dalton Harrington (Emeritus), Sarojam Mankau (Emeritus), Anthony Metcalf, David Polcyn, Alexander Sokoloff (Emeritus), Stuart Sumida, John Skillman, Colleen Talbot, Jeffrey Thompson (Chair), Gerald Thrush, Ching-Hua Wang, Kimberly Williams, Ruth Wilson

MASTER OF SCIENCE IN BIOLOGY

Requirements (45 units)

The Master of Science in Biology is designed to provide the flexibility required to develop specific course programs and acceptable thesis research proposals based upon the individual graduate student's interests and background. The general goal of the program is to provide the student with opportunity for improvement of competence, development of the ability to continue self-directed study, and development of intellectual responsibility in preparation for professional leadership in biology.

The graduate program in biology provides training in various concentrations of current research interest in molecular and population genetics, physiology, immunology, molecular biology, population and systematic ecology, neurobiology, plant and animal developmental biology, cellular biology, vertebrate morphology and paleontology, microbiology, parasitology, cancer biology and science education.

Admission to the M.S. Program

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

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in biology or associated fields (e.g., microbiology, botany, zoology or chemistry with at least 30 quarter units of upper-division biology course work);
3. One year each of laboratory courses in: general biology, general chemistry, organic chemistry and physics;
4. One full-term course in basic calculus or methods in calculus;
5. A cumulative undergraduate grade point average of at least 3.0 ("B") in all courses used for credit in the major;
6. Completion of the graduate entrance writing requirement;
7. Submission to the Department of Biology Graduate Committee, scores from the Graduate Record Examination (GRE) including advanced testing in biology;
8. Submission to the Department of Biology Graduate Committee a one-page, typewritten statement of the student's preparation for graduate study, goals in the graduate training program, potential area of research and possible advisor (for thesis option) and professional goals following completion of the M.S.;
9. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's intent and potential for success in the M.S. program. At least two of the letters should be from current or former college or university faculty familiar with the student's scholarship and related activities.
Application deadlines for fall, winter and spring quarter admission are May 1, October 1, and January 15, respectively.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the Department of Biology, if a thesis project is selected;
3. Completed at least 15 quarter units of work applicable to the degree program as a graduate student at this university with the approval of the Department of Biology Graduate Committee, and with a minimum grade point average of 3.0 ("B");
4. Gained a recommendation for advancement to candidacy from the Department of Biology Graduate Committee;
5. Submitted a formal program of graduate course work prepared in consultation with and approved by the Department of Biology Graduate Committee;
6. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work included in the formal program, with no less than 32 units completed in residence at this university and with at least 24 units gained from 600-level courses in biology;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the Master of Science in Biology and grades of "C" (2.0) or better in each course in the program;
4. Completion of a final oral examination concluded by acceptance of the thesis (Plan I); or satisfactory completion of the Comprehensive Final Examination (Plan II);
5. The graduation writing requirement is met upon successful completion of the thesis or the written portion of the comprehensive examination;
6. Any additional general requirements not cited above and listed on [Page 364](#).

Department Graduate Committee and Major Advisor

The Department of Biology Graduate Committee consists of the graduate program coordinator and two or more faculty members. This committee has general supervision over the work of students progressing toward the Master's degree, and

will determine whether students are adequately prepared for graduate study in biology.

Each new graduate student should consult with the graduate program coordinator for advice in selection of the appropriate graduate program. Students choosing to complete a thesis are responsible for selecting their major advisor and, in turn, must be accepted by the major advisor. The major advisor in consultation with the student will develop a program of specific courses and an acceptable thesis research proposal based on the student's interests, abilities and preparation. The major advisor will direct the thesis research. The program of courses and the thesis topic, as well as any subsequent modification of these, are subject to approval by the Department of Biology Graduate Committee and the Dean of Graduate Studies.

Students following the non-thesis program should consult directly with the Department of Biology graduate program coordinator.

Students currently enrolled in the graduate program wishing to take courses off campus and include them in the degree program must petition the Department of Biology for approval either through the graduate program coordinator and the Graduate Committee, otherwise the course may not be accepted as part of the program. 1000- to 9999-level extension courses are not applicable to the graduate program.

300-level courses taken will be accepted only by written approval of the department. 300-level courses are seen as support courses and therefore are not generally applicable to the graduate degree program.

Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree.

Repeat of courses or the comprehensive final examination require approval of the Department of Biology Graduate Committee and may be granted for serious and compelling reasons.

Thesis and Final Oral Examination Program

Students electing this program, Plan I below, must conduct an original research study and from these efforts write a thesis acceptable to the major advisor, the department graduate committee and the Dean of Graduate Studies. The student should consult the Department of Biology for details on preparing the thesis manuscript.

A final oral examination consisting primarily of discussion of the thesis and thesis research is required. The official examiners are the major advisor, the department graduate committee, and a representative from outside the Department of Biology chosen by the Dean of Graduate Studies. Successful completion of the final oral examination includes acceptance of the thesis by the examiners.

Available research areas include:

- Cancer Biology
- Cell Biology
- Developmental Biology
- Ecology
- Genetics
- Immunology
- Microbiology
- Molecular Biology
- Morphology
- Neurobiology
- Paleontology

- Parasitology
- Physiology
- Population Biology

For possible combinations of areas or other areas consult with the Department of Biology.

Non-Thesis Alternative Program

Students pursuing this alternative are required to pass the Biology Department graduate comprehensive examination in addition to the completion of required course work selected from four major curricular areas in biology as described in Plan II below. This requirement serves to provide breadth of background at an advanced level for the student not electing a thesis. Satisfactory completion of the Plan II must be certified by the Department of Biology Graduate Committee before graduation from the program is possible.

Degree Requirements (45 units)

Plan I: Thesis and Final Oral Examination Program

1. BIOL 690. Graduate Seminar in Biology (2)
2. BIOL 699A. Thesis Research and Thesis (3)
3. BIOL 699B. Thesis Research and Thesis (3)
4. BIOL 699C. Thesis Research and Thesis (3)
5. Fourteen units, with at least two units chosen from each area (A,B,C,D) below:
 - A. BIOL 600. Advanced Topics in Molecular Biology (2)
 - BIOL 605. Advanced Topics in Cell Biology (2)
 - BIOL 624. Advanced Topics in Physiology (2)
 - BIOL 677. Advanced Immunology (2)
 - BIOL 678. Advanced Microbiology (2)
 - B. BIOL 620. Advanced Topics in Plant Biology (2)
 - BIOL 670. Advanced Topics in Ecology (2)
 - BIOL 675. Advanced Topics in Parasitology (2)
 - C. BIOL 650. Advanced Topics in Genetics (2)
 - BIOL 660. Advanced Topics in Development (2)
 - D. BIOL 664. Biosystematics (2)
 - BIOL 680. Advanced Topics in Evolution (2)
6. Twenty units of electives to be chosen from biology or related courses at the 600-, 500- and 400-levels.
7. Attendance of at least one per quarter Biology Department graduate presentations or selected colloquia, until the thesis has been defended satisfactorily.

Plan II: Non-Thesis Alternative Program

1. BIOL 690. Graduate Seminar in Biology (2) for a total of (4)
2. Twenty-two units, with at least four units chosen from each area (A,B,C,D) below:
 - A. BIOL 600. Advanced Topics in Molecular Biology (2)
 - BIOL 624. Advanced Topics in Physiology (2)
 - BIOL 677. Advanced Immunology (2)
 - BIOL 678. Advanced Microbiology (2)
 - B. BIOL 620. Advanced Topics in Plant Biology (2)
 - BIOL 670. Advanced Topics in Ecology (2)
 - BIOL 675. Advanced Topics in Parasitology (2)
 - C. BIOL 650. Advanced Topics in Genetics (2)
 - BIOL 660. Advanced Topics in Development (2)

- D. BIOL 664. Biosystematics (2)
 BIOL 680. Advanced Topics in Evolution (2)
- Nineteen units of electives to be chosen from biology or related courses at the 600-, 500- and 400-levels.
 - Upon completion of all course work, attendance of at least one per quarter Biology Department graduate presentations or selected colloquia, until the comprehensive examination has been passed.
 - Successful completion of the Department of Biology Comprehensive Examination.

COURSE OFFERINGS IN BIOLOGY (BIOL)

Upper Division

522. The Genetics and Ecology of Populations

Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Four hours lecture. Prerequisites: BIOL 421, 422, and MATH 192 or 211. (4 units)

524. Advanced Vertebrate Morphology

Advanced techniques in the study of vertebrates, including dissection and specimen preparation. Construction of animal skeletal materials, and detailed study and dissection of vertebrate organ systems will provide the basis for projects designed on an individual student basis. Two hours lecture and three hours laboratory. Prerequisites: BIOL 342, 424 and consent of instructor. (3 units)

530. Scanning Electron Microscopy

Theory and techniques of scanning electron microscopy. Lectures on theory of operation of the scanning electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the scanning electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. (Also offered as GEOL 530. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

531. Transmission Electron Microscopy

Theory and techniques of transmission electron microscopy. Lectures on theory of operation of the transmission electron microscope and specimen preparation. Laboratory includes hands-on training in the use of the transmission electron microscope. Laboratory projects will teach technical aspects of specimen preparation and microscope use. Three hours lecture and six hours laboratory. (Also offered as GEOL 531. Students may not receive credit for both.) Prerequisites: senior standing and consent of instructor. (5 units)

532. Techniques in Ultrastructure Analysis

Specialized techniques in ultrastructural analysis using either the scanning or transmission electron microscope. Topics will vary, but will include specialized techniques in specimen preparation, alternative image detectors, and image analysis. Theory of the analysis and training in the technical aspects will be covered. Three hours lecture and six hours laboratory. (Also offered as GEOL 532. Students may not receive credit for both.) Prerequisites: BIOL 530 or 531, or GEOL 530 or 531 and consent of instructor. (5 units)

565. Physiological Ecology

Physiological, biochemical and molecular attributes of organisms and their interactions with the environment. Explanations for distribution, survival and reproduction. Four hours lecture and six hours laboratory. Prerequisites: BIOL 354 and 424; or 431 and 331 or 342; and 450. (6 units)

575. Internship in Biology

Supervised work and study in work situations involving biological research and technical skills. May be applied only once toward degree electives in biology programs. May be repeated twice for free elective credit. Graded credit/no credit. Prerequisite: department approval in the quarter prior to registration. (2 units)

576. Endocrinology

Endocrine systems with emphasis on mechanisms for regulating the biosynthesis, secretion, transport and actions of hormones. Four hours lecture. Formerly BIOL 376 and 486. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

590. Senior Seminar

Survey of current literature, methods and ethics of scientific inquiry. May be repeated once as topics change. Prerequisites: BIOL 300 with a grade of "C" or better, and a minimum of 15 upper-division biology courses supportive of the topic area and senior standing.

- Molecular (2 units)
- Biosystematics (2 units)
- Cellular (2 units)
- Physiology (2 units)
- Ecology (2 units)
- Animal Use (2 units)
- Genetics (2 units)
- Evolution (2 units)
- Microbiology (2 units)
- Zoology (2 units)
- Botany (2 units)

595. Independent Study

Laboratory and/or library research in selected areas in biology conducted under the direction of a faculty member. A total of six units in BIOL 595 may be applied toward graduation. Consent must be obtained no later than the advisement period preceding the quarter of enrollment. All students will be required to attend the Biology Department colloquium called by the department chair each quarter until their projects are completed. Graded credit/no credit. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students
 Enrollment is limited to students formally admitted to the M.S. in Biology. Instructor must verify consent prior to registration.

600. Advanced Topics in Molecular Biology

An in-depth consideration of selected research areas in molecular biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

601. Teaching Assistant Training in Biology

Teaching assistant training in biology trains graduate students in techniques and most current presentation and teaching methods of laboratory-based biology. Course is open to graduate students only. Topics include: teaching and discussion techniques specific to biology laboratories, use of equipment-specific laboratories in the biological sciences, presentation strategies, and safety issues in biology. Successful completion of BIOL 601 is required before a student may act as a teaching assistant in the Department of Biology. Enrollment in BIOL 601 concurrent with first assignment as a teaching assistant is allowed with consent of instructor. Prerequisite: classified standing in Master's Degree Program. (2 units)

605. Advanced Topics in Cell Biology

An in-depth consideration of selected research areas in cell biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

620. Advanced Topics in Plant Biology

An in-depth consideration of selected areas of current study in plant biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

624. Advanced Topics in Physiology

An in-depth consideration of selected research areas in physiology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

650. Advanced Topics in Genetics

An in-depth consideration of selected research areas in genetics. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

660. Advanced Topics in Development

An in-depth consideration of selected research areas in developmental biology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

664. Biosystematics

Fundamental concepts of classification systems, biometric and experimental taxonomic procedures, nomenclature and systematic literature; both plant and animal materials used. Prerequisites: BIOL 421 and 422, or 423 and one taxonomy-based course; e.g. BIOL 319, 331, 335, 342, 353, or 354. Recommended: MATH 305. (2 units)

670. Advanced Topics in Ecology

Literature survey of specific topics related to community or ecosystem dynamics. May be repeated for credit as topics change. Prerequisite: BIOL 450 or equivalent. (2 units)

675. Advanced Topics in Parasitology

An in-depth consideration of selected research areas in parasitology. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

677. Advanced Immunology

An in-depth examination of current research in cellular and molecular immunology. Prerequisite: BIOL 476. (2 units)

678. Advanced Microbiology

An in-depth examination of current research in pathogenesis of microorganisms. Prerequisite: BIOL 220 or 320. (2 units)

680. Advanced Topics in Evolution

Topics of current research interest in plant or animal evolution. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

690. Graduate Seminar in Biology

Selected topics and reviews of current investigations in the fields of biology. Required of all graduate students in biology. May be repeated for credit as topics change. (2 units)

695. Directed Graduate Research in Biology

Original individual research in biology; to be conducted under the direct supervision of a faculty member of the student's committee, and if desired in collaboration with other members of the student's master's committee. The course may be taken up to three times. To retain classified standing in the master's program, students enrolled in BIOL 695A, 695B and 695C must attend and participate in the Biology Department colloquium called by the department chair each quarter that the course is taken. Prerequisite: classified standing in Master's Degree Program and consent of instructor.

A. (4 units)

B. (4 units)

C. (4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis Research and Thesis

Independent graduate research conducted under guidance of the major advisor and resulting in a thesis. BIOL 699A, 699B, and 699C must be completed for a total of nine units. To retain their classified standing in the master's program, students enrolled in this course must attend the Biology Department colloquium called by the department chair each quarter until their projects are completed and their theses accepted. Prerequisite: advancement to candidacy.

A. (3 units)

B. (3 units)

C. (3 units)

BUSINESS ADMINISTRATION

Master of Business Administration

Accredited by AACSB International, the Association to Advance Collegiate Schools of Business
with concentrations in:

- Accounting
- Corporate Management
- Entrepreneurship
- Finance
- Information Management
- Management and Human Resources
- Management of Conflict
- Marketing Management
- Operations Management

Master of Business Administration for Executives

College of Business and Public Administration
Jack Brown Hall, Room 282
880-5703

MASTER OF BUSINESS ADMINISTRATION

Requirements (48 units)

The Master of Business Administration (M.B.A.) program provides post-baccalaureate students with a high-quality master-level education in the field of business administration. The program is designed to prepare promising students for positions of increasing responsibility and leadership through education in the broad scope of business and through in-depth knowledge in one or more specialized areas of business.

The program is open to all qualified students, regardless of undergraduate major. Students who do not have a background in the area of business administration can obtain this required capability by completing designated prerequisite courses or through individual study with competency demonstrated through credit by examination or by demonstrated work experience.

Admission to the M.B.A. Program

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

1. A bachelor's degree from an accredited college or university;
2. Submission of an acceptable Graduate Management Admission (GMAT) score that meets the following formula: $(\text{GPA} \times 200) + \text{GMAT}$ scored greater than or equal to 1,020 with a minimum 470 GMAT score; GPA is based on the last 90 quarter (60 semester) units and may include post-baccalaureate work);
3. Submission of GMAT score by the deadline for that term; if test result is not submitted on time, admission status will be unclassified postbaccalaureate unless the GMAT has been waived; an applicant may request waiver of the

GMAT upon proof of completion of graduate work (e.g. J.D., Ph.D., M.D., etc.) from an accredited U.S. college or university;

4. Completion of the graduate entrance writing requirement;
5. Competence in the following prerequisite courses or their equivalents:
 - A. ACCT 503. Financial and Managerial Accounting or equivalent courses:
ACCT 211. Introductory Accounting I
ACCT 212. Introductory Accounting II
 - B. ECON 503. Economic Analysis or equivalent courses:
ECON 200. Principles of Microeconomics
ECON 202. Principles of Macroeconomics
 - C. FIN 503. Financial Management Concepts or equivalent courses:
FIN 313. Business Finance
FIN 314. Corporate Finance
 - D. INFO 309. Information Management
 - E. MGMT 302. Management and Organizational Behavior
or
PSYC 302. Management and Organizational Behavior
 - F. MGMT 330. Legal Environment of Business
 - G. MGMT 490. Strategic Management
 - H. MKTG 305. Marketing Principles
 - I. MSCI 210. Applied Business Statistics
 - J. OM 304. Principles of Operations Management

Note: ACCT 503, ECON 503, and FIN 503 are intensive introductory courses taught at an accelerated pace and cover material otherwise available in two lower-division courses. Students who may have difficulty with accelerated courses should consider enrolling in the individual equivalent courses. Consult the graduate director for more information.

Competence in the above prerequisite courses may be demonstrated by:

- A. Formal completion of the course or its equivalent.
 - B. Credit by examination.
 - C. Waiver based on specialized work experience; must have documentation of work directly related to course to be waived; and must be approved by the college's director of graduate studies. (Students requesting waiver of any prerequisite courses must petition the college's director of graduate studies. Inquiries about a challenge examination or substitution for MGMT 306 should be directed to the Dean of Graduate Studies.)
6. Academic motivation and personal qualifications demonstrated through submission of a 200-250 word statement of reasons for wishing to pursue the M.B.A. at California State University, San Bernardino, and personal qualifications that will contribute to successful completion of the program.
- Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies

are removed, at which time they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in 600-level courses unless they have written consent from the college graduate director.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, at least 16 quarter units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with an M.B.A. advisor after achieving conditionally classified or classified status;
4. Secured approval of the graduate director of the College of Business and Public Administration.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 36 units completed at the university;
2. At least 28 quarter units of 600-level course work;
3. At least 24 quarter units of credit taken after advancement to candidacy for the degree;
4. Successful completion of the required core courses and an elective concentration as outlined in the curriculum section;
5. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
6. After advancement to candidacy, students must complete one of the following:
 - A. ADMN 998. Comprehensive Project (0 units)
In consultation with a faculty advisor, completion and defense of a written project based on his or her concentration before a committee of graduate faculty.
 - B. ADMN 999. Comprehensive Examination (0 units)
Successful completion of a comprehensive examination over the student's concentration any fall, winter or spring term after advancement to candidacy.

Students will not be allowed to do the project or take the comprehensive examination if grade point average is below 3.0 ("B");
7. Successful completion of ADMN 995 (MBA Portfolio) which includes preparation and submission of a portfolio of course work. The portfolio includes a reflective essay showing how the portfolio demonstrates accomplishment of essential goals for the program. Students register for this 0-unit course after advancement to candidacy, completion of 32 units of coursework, and are eligible to sit for the comprehensive examination;
8. The graduation writing requirement is met upon successful completion of the comprehensive project or examination;
9. Any additional general requirements not cited above and listed on [Page 364](#).

Concentrations are available in accounting, corporate management, entrepreneurship, finance, information management, management and human resources, management of

conflict, marketing management, and operations management. Prior to advancement to candidacy, a student must select one of these concentrations to be tested on through the comprehensive examination or project process. A "no credit" (NC) designation will be entered on the student's transcript if he/she fails the examination or project. Students who do not receive a passing grade on the examination on the first attempt must petition the college's director of graduate studies for permission to retake the examination. The examination will be offered fall, winter and spring quarters. Only students who are currently classified, have completed all required concentration courses, have been advanced to candidacy, have obtained approval of the graduate director and are not on probation may take the examination or do the project.

Degree Requirements (48 units)

1. ACCT 606. Accounting for Managerial Decision-Making (4)
2. FIN 602. Financial Theory and Corporate Finance (4)
3. INFO 609. Information Management Systems (4)
4. MGMT 601. Organization Theory and Behavior (4)
5. MGMT 685. Corporate Strategy in a Global Economy (4)
6. MKTG 605. Marketing Management (4)
7. OM 607. Operations Management (4)
8. Twenty units from one of the following concentrations, chosen in consultation with an advisor:

Accounting Concentration

1. ACCT 610. Financial Reporting and Disclosure (4)
2. ACCT 615. Controllership (4)
3. ACCT 620. Internal Auditing and Management Control (4)
4. Four units chosen from:
 - ACCT 625. Seminar in Accounting Information Systems (4)
 - ACCT 629. Seminar in Tax and Business Decisions (4)
 - ACCT 642. International Accounting (4)
5. One additional elective either chosen from the two courses not chosen in category 4 above, or any other 600-level business administration concentration course approved by the MBA director and the department chair.

Corporate Management Concentration

1. INFO 646. Information Management Planning (4)
2. MGMT 640. Methods of Organizational Change (4)
3. MGMT 650. International Management (4)
4. MKTG 696. Marketing Strategy (4)
5. OM 615. Project Management (4)

Entrepreneurship Concentration

1. Sixteen units chosen from:
 - FIN 622. Entrepreneurial and Venture Finance (4)
 - INFO 623. Entrepreneurial Information Management (4)
 - MGMT 515. Small Business Consulting (4)
 - MGMT 620. Entrepreneurial Analysis and Regulatory Risk (4)
 - MGMT 621. Entrepreneurial Behavior: Theory and Practice (4)

- MKTG 624. Marketing for Entrepreneurs (4)
Any Internship (575) from the College of Business and Public Administration
2. MGMT 625. Entrepreneurial/Small Business Strategy and Policy (4)

Finance Concentration

1. FIN 651. Financial Institutions and Markets (4)
2. FIN 653. Investment Analysis and Portfolio Management (4)
3. FIN 654. International Finance (4)
4. FIN 680. Corporate Financial Strategy (4)
5. Four units chosen from:
FIN 575. Internship in Finance (4)
FIN 655. Management of Financial Institutions (4)
INFO 646. Information Systems Planning, Strategy and Policy (4)
MGMT 603. Research Methods in Administration (4)

Information Management Concentration

1. INFO 646. Information Systems Planning, Strategy and Policy (4)
2. INFO 647. Information Based Management (4)
3. INFO 648. Information Networking Systems (4)
4. Eight units chosen from:
INFO 575. Internship in Information Management (4)
INFO 590. Seminar in Information Management (4)
INFO 595. Independent Study (4)
INFO 623. Entrepreneurial Information Management (4)
INFO 645. Information Systems Analysis and Design (4)
INFO 650. Information Decision Systems (4)
INFO 670. Information Visualization and Data Warehousing Strategies (4)
INFO 680. International Electronic Commerce (4)
INFO 685. World Wide Web Strategies (4)
INFO 690. Advanced Topics in Information Management (4)

Management and Human Resources Concentration

1. MGMT 640. Methods of Organizational Change (4)
2. MGMT 641. Managing Human Resources (4)
3. MGMT 642. Communication and Interpersonal Processes (4)
4. Eight units chosen from:
MGMT 603. Research Methods in Administration (4)
MGMT 644. Industrial Relations (4)
MGMT 645. Negotiation and Bargaining (4)
MGMT 646. Alternate Dispute Resolution and Third Party Intervention (4)
MGMT 650. International Management (4)
MGMT 670. Green Management (4)
MGMT 690. Advanced Topics in Management (4)

Management of Conflict Concentration

1. COMM 522. Conflict Resolution Methodologies (4)
2. MGMT 642. Communication and Interpersonal Processes (4)
3. MGMT 644. Industrial Relations (4)
4. MGMT 645. Negotiation and Bargaining (4)

5. MGMT 646. Alternate Dispute Resolution and Third Party Intervention (4)

Marketing Management Concentration

1. MKTG 610. Consumer and Organizational Buying Behavior (4)
2. MKTG 620. Advertising Management (4)
3. MKTG 640. Advanced Marketing Research (4)
4. MKTG 696. Marketing Strategy (4)
5. Four units chosen from 500- or 600-level courses chosen in consultation with an advisor.

Operations Management Concentration

1. OM 611. Operations Strategy (4)
2. OM 614. Advanced Quality Management (4)
3. OM 615. Project Management (4)
4. OM 650. Information Decision Systems (4)
5. OM 660. Supply Management (4)

Students who wish to substitute up to two 300- or 400-level courses must petition the college's director of graduate studies for approval in advance; for each course approved, they will be required to enroll simultaneously in a two-unit independent study course directly related to the course selected. These independent study units cannot be applied to any graduate degree unit requirements.

The student should meet with an M.B.A. advisor upon achieving classified status to declare an area of concentration and file an approved program plan.

Students may not take more than a total of eight quarter units in any combination of College of Business and Public Administration 575, 590, 595, and 690 courses.

Only classified students (or those who have the consent of the college's director of graduate studies) may enroll in 600-level courses.

The program may not include more than 12 quarter units in transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from any institution which will not accept that work in its own advanced degree program.

MASTER OF BUSINESS ADMINISTRATION FOR EXECUTIVES

Requirements (56 units)

The M.B.A. for Executives is a 56-unit program, and is a variant of the regular M.B.A. It offers a high quality learning experience to entrepreneurs and professional managers from a variety of fields such as engineering, financial management, information technology, human resources management, marketing, operations management, accounting, and health care administration. Participants are working executives who hold key decision-making positions within their organizations. The executive participants should have at least five years of managerial experience. They should also be career professionals who intend to become better managers and have aspirations of assuming positions with increasing levels of responsibility. It is designed for managers who want to obtain advanced business education and training in order to become more effective decision-makers.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the M.B.A. for Executives program are:

1. Minimum of 5 years experience as a manager in charge of a significant annual budget, staff, and/or operations;
2. Participants are required to have basic skills and competence in computer applications i.e., word processing, spreadsheet, e-mail, and the Internet;
3. Completion of the graduate entrance writing requirement;
4. A bachelor's degree from an accredited college;
5. A letter of Corporate or Individual Sponsorship. This letter ensures that the participants' sponsors will agree to allow them to attend classes two times per week, and determines if their sponsors plan to cover all or part of their educational fees. If a participant is self-sponsored, the employer should confirm their agreement with his/her attendance;
6. An acceptable Graduate Management Admission Test (GMAT) score which an applicant may request waived upon proof of completion of graduate work (e.g. J.D., Ph.D., M.D., etc.) from an accredited U.S. college or university;
7. In addition to the GMAT results, all international applicants who have not completed three years of full-time study at the secondary or postsecondary level where English was the language of instruction must take the Test Of English as a Foreign Language (TOEFL).

Suitability for admission to the program will be based on an examination of the entire application package.

Advancement to Candidacy:

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, at least 20 quarter units of applicable graduate level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with an M.B.A. advisor after achieving conditionally classified or classified status;
4. Secured approval of M.B.A. director.

Requirements for Graduation:

To qualify for the degree, students are required to:

1. Complete the 48 quarter units (exclusive of the two prerequisite courses) with a grade point average of 3.0 ("B") or better;
2. Submit a comprehensive project (ADMN 998) that is evaluated by graduate advisors as satisfactory. Satisfactory performance on the project meets the graduation writing requirement;
3. At least 28 quarter units at 600-level course work;
4. At least 24 quarter units of credit taken after advancement to candidacy for the degree;
5. A grade point average of 3.0 ("B") in all courses taken after admission to conditionally classified or classified status, and grades of 2.0 ("C") or better in ALL courses in the program.

Prerequisites: Managerial Tools Courses (8 units)

1. ADMN 501. Quantitative Tools for Executives (4)
2. ADMN 502. Managerial Communication and Policy (4)

The managerial tools courses are intended to provide a solid foundation for the material to be presented in the core concentration courses. One or more of these tools courses may be waived based on prior academic course work.

Degree Requirements

Business Functional Area Core Courses (24 units)

1. ACCT 606. Accounting for Managerial Decision-Making (4)
2. FIN 602. Financial Theory and Corporate Finance (4)
3. INFO 609. Information Management Systems (4)
4. MGMT 601. Organization Theory and Behavior (4)
5. MKTG 605. Marketing Management (4)
6. OM 607. Operations Management (4)

Functional Elective Courses (20 units)

1. Twenty units from the College of Business and Public Administration graduate electives chosen in consultation with an advisor.

Culminating Experience (4 units)

1. MGMT 685. Corporate Strategy in a Global Economy (4)
2. ADMN 998. Comprehensive Project (0)

BETA GAMMA SIGMA

The university has an active chapter of Beta Gamma Sigma, a national organization that encourages and honors academic achievement and personal excellence in the study and practice of business. Membership is by invitation extended to undergraduate and graduate business students of high scholarship and good moral character.

Undergraduate course descriptions for Accounting, Finance, Information Management, Management, Management Science, Marketing, Operations Management, and Public Administration are listed alphabetically throughout the undergraduate studies section of the catalog.

COURSE OFFERINGS IN ACCOUNTING (ACCT)

Upper Division

503. Financial and Managerial Accounting

Intensive introduction to applied topics and techniques in financial and managerial accounting. Development and use of accounting information for external reporting purposes and management analysis, decision-making, planning and control. No credit will be awarded to students who have had ACCT 211 and 212 or 306. May not be counted toward fulfilling requirements for any degree program offered by the College of Business and Public Administration. (4 units)

568. Accounting for Government and Not-for-Profit Organizations

Covers principles and practices of government fund accounting. Topics include governmental accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to government and not-for-profit entities, presentation and uses of financial statements. (Also offered as PA 568. Students may not receive credit for both.) Prerequisite: ACCT 211. (4 units)

575. Internship in Accounting

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Accounting

An intensive study of some phase of accounting to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

605. Health Care Accounting and Financial Analysis

Basic concepts, methods, and application of cost and accrual accounting, finance and budgeting techniques and methods applied to health services and health care organizations, with computer application and analysis. (Also offered as HSCI 605. Students may not receive credit for both.) (4 units)

606. Accounting for Managerial Decision-Making

Study and application of the concepts and techniques used by management for planning and controlling business activities. Prerequisite: ACCT 503 or completion of ACCT 211 and 212. (4 units)

610. Financial Reporting and Disclosure

An in-depth study of financial accounting, reporting, and disclosure. Professional accounting and reporting standards will be examined. Prerequisite: ACCT 606. (4 units)

615. Controllership

In-depth study of accounting techniques, concepts and procedures related to the functions and responsibilities of the controller. Consideration of management reporting systems, planning and controlling functions, resource allocation, transfer pricing, the general ledger-based system, departmental expense control and investment planning. Prerequisite: ACCT 606. (4 units)

620. Internal Auditing and Management Controls

Study of the theory and practice of auditing as it applies to the internal and management controls function of the organization. Topics include statements of auditing standards, ethical and legal responsibilities, internal control structure considerations, statistical sampling applications, computer-assisted auditing techniques and regulatory agency requirements. Prerequisite: ACCT 610. (4 units)

625. Seminar in Accounting Information Systems

A study of the design and operation of accounting information systems in both mainframe and microcomputer environments. Advanced consideration of internal control and auditing of computer-based systems. Environmental hardware and software implications for security and quality control are examined. Prerequisite: ACCT 610 or consent of instructor. (4 units)

629. Seminar in Tax and Business Decisions

Study of how taxation affects business decisions of both domestic and multinational business. Topics include introduction to tax policy, comparative tax systems, tax effects on investment and financing activities, taxation of multinational transactions, and basic tax research methodology. Prerequisite: ACCT 610 or consent of instructor. (4 units)

642. International Accounting

Critical examination of current developments in international accounting; the difficulty of preparing precise and universally accepted accounting principles; social, economical, and political influences on comparative accounting theory and practice. Financial reporting and control of multinational enterprises are also discussed. Prerequisite: ACCT 610 or consent of instructor. (4 units)

690. Advanced Topics in Accounting

Intensive study of an advanced topic in accounting. May be repeated for credit as topics change. (4 units)

COURSE OFFERINGS IN ADMINISTRATION (ADMN)

Upper Division**501. Quantitative Methods for Managers**

A review of major analytical methods used by managers to facilitate their decision making, including accounting, finance, operations and other decision science tools. (4 units)

502. Managerial Communication and Policy

A review and integration of the managerial areas of human resource management, marketing, organizational communication, negotiation skills, and policy and strategy into a decision-making framework that is bound by legal, ethical and global considerations. (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

604. Managing Cost, Operations, and Financial Reporting

The main focus of this course is the analysis of the basic financial statements, historical/replacement cost accounting, financial and business environments of the firm, the time value of money and financial analysis, planning and control. The course also covers the identification, understanding and analyses of the fundamental business problems and policies that have financial implications. The course will serve as a prerequisite for ACCT 606 and FIN 602. (4 units)

605. Product Development and Distribution

Integrative course that acquaints students with the methods of planning, organizing, and controlling for the creation and distribution of goods and services. Topics include: sales forecasting techniques, product planning and pricing, sales and product budgeting, linear programming: transportation and assignment models, inventory planning and control, value chain analysis, materials requirements planning, aggregate capacity planning and scheduling, waiting lines, pricing and promotion strategies, statistical quality control and maintenance, and distribution strategy. (4 units)

695. Directed Graduate Studies

Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the student's committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies. (Credit to be arranged: 1 to 6 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

COURSE OFFERINGS IN FINANCE (FIN)

Upper Division**503. Financial Management Concepts**

An introductory course in financial management with an emphasis on concepts, tools and strategies underlying corporate financial decision-making. Topics include techniques used by firms in procuring and allocating capital for short-term and long-term operations. No credit will be awarded to students who have had FIN 313 and 314. May not be counted toward fulfilling requirements for any degree program offered by the College of Business and Public Administration. Prerequisite: ACCT 503. (4 units)

534. Export-Import Financing

International complexities of exporting and importing. Emphasis on the benefits of international trade, the various ways to enter the global market, project financing, trading blocs and investment strategies, components of an export-import quotation, methods of payment, imports, exports, contracts and public and private assistance programs. Formerly FIN 434. Prerequisite: FIN 313. (4 units)

575. Internship in Finance

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

581. International Aspects of Real Estate

Study of international investment in real estate with emphasis on diversification of benefits including international real estate in an investment portfolio. Specific investment strategies and opportunities for different countries will be analyzed. (4 units)

585. Real Estate Finance

Financial aspects of real estate investment will be discussed including analysis characteristics, lending environment, financial instruments, and effective loan proposals. Prerequisite: FIN 313 or consent of instructor. (4 units)

590. Seminar in Finance

An intensive study of some phase of finance to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students
Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

602. Financial Theory and Corporate Finance

Modern finance theory and analysis of financial decision making. Topics include valuation, risk and return, cost of capital, capital budgeting, capital structure policy, dividend policy, working capital management, financial planning, and corporate control. Prerequisites: FIN 313 and 314 or 503. (4 units)

622. Entrepreneurial and Venture Finance

An overview of the financial and investment of entrepreneurial firms. Focus is on financial and investment strategies available to entrepreneurial firms and the criteria for selecting the appropriate strategy. Prerequisite: FIN 602. (4 units)

651. Financial Institutions and Markets

Analysis of financial institutions and markets. Term structure of interest rates, portfolio theory and flow-fund analysis, deposit-type intermediaries, insurance, pension funds and investment companies. Prerequisite: FIN 313, 314 or 503. (4 units)

653. Investment Analysis and Portfolio Management

Comprehensive introduction to the descriptive and formalized quantitative areas of security analysis and portfolio management. Three hours lecture and two hours activity laboratory. Prerequisite: FIN 602. (4 units)

654. International Finance

Study of international financial environment and problems in operation of multinational enterprises with major focus on theory and practice of foreign exchange transactions, money and capital markets, investment decisions, current asset management and comparative financial systems. Prerequisite: FIN 602. (4 units)

655. Management of Financial Institutions

Concepts and techniques used in management of banks, savings and loans, credit unions and finance companies. Topics include asset, liability and capital management, expense control and productivity analysis. Prerequisite: FIN 651. (4 units)

680. Corporate Financial Strategy

Advanced topics in the field with emphasis on formulation of financial strategy. Integrates various topics in finance including mergers and reconstruction, acquisitions, debt capacity, capital budgeting, investment policy and strategy. Includes international, social, and ethical issues. Prerequisites: FIN 651, 653 and 654 or consent of instructor. (4 units)

690. Advanced Topics in Finance

Intensive study of an advanced topic in finance. May be repeated for credit as topics change. (4 units)

COURSE OFFERINGS IN INFORMATION MANAGEMENT (INFO)

Upper Division**575. Internship in Information Management**

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Information Management

An intensive study of some phase of information management to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

609. Information Management Systems

Advanced applications of computer and information systems in organizations. Topics include information management planning, information technologies and information based management. Prerequisite: INFO 309. (4 units)

623. Entrepreneurial Information Management

Explores the use of current personal computing technology upon entrepreneurial organizations and management. Topics will include e-commerce, web-based business strategies and computer software used by entrepreneurs. Prerequisite: INFO 609. (4 units)

645. Information Systems Analysis and Design

Managerial perspective of the methods used in the design and maintenance of computer based information systems. Issues in systems design, from project identification to implementation and maintenance, will be presented. Tools and principles related to newer techniques such as joint application development and object oriented data base design. Prerequisite: INFO 609. (4 units)

646. Information Systems Planning, Strategy and Policy

Information systems planning, strategy and policy are necessary for an organization to deploy, manage and control its information resources. Takes the view of the Chief Information Officer integrating information systems with the business strategy and information needs of the organization through the process of information systems strategic planning and policy development. Theory, tools, methodologies and practice of information systems strategic planning and policy development. Prerequisite: INFO 609. (4 units)

647. Information Based Management

Advanced theory and application of data base management in organizations. Topics include manager's need for information, elements of a data base, types of data bases, difference in data bases and information systems. Prerequisite: INFO 609. (4 units)

648. Information Networking Systems

An advanced study of developing, implementing, and managing data communication systems. Topics covered include use of hardware, software, microwave, fiber optics, multiplexers and digital PBX's and the management of telecommunication resources. Prerequisite: INFO 609 or consent of instructor. (4 units)

650. Information Decision Systems

Concepts, principles, practices and tools needed to support the management decision making process. Both static and dynamic models of information management related to decision making will be explored. (Also offered as OM 650. Students may not receive credit for both.) Prerequisites: INFO 609 and OM 607. (4 units)

670. Information Visualization and Data Warehousing Strategies

Information visualization and data warehousing strategies for organizations in product and service centered areas. Integration of information mapping and large data base tools and concepts to solve and support decision making. Prerequisite: INFO 609. (4 units)

680. International Electronic Commerce

Information technology in international business including: electronic data interchange, information technology in transnational firms. Managing information through international strategic alliances, corporate factors affecting global IT requirements, transnational information technology policy issues, transborder data flows and IT architecture for electronic commerce. Prerequisite: INFO 609. (4 units)

685. World Wide Web Strategies

World wide web strategies include: intranets, internets and extranets, along with push and pull technologies. Strategies will focus on information technologies, planning and implementation. Prerequisite: INFO 609. (4 units)

690. Advanced Topics in Information Management

Intensive study of an advanced topic in information management. May be repeated for credit as topics change. (4 units)

COURSE OFFERINGS IN MANAGEMENT (MGMT)

Upper Division**515. Small Business Consulting**

Supervised consulting assignments designed to provide meaningful business assistance to small businesses. Prerequisites: consent of instructor and college. (4 units)

575. Internship in Management

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

580. Business Game Competition

Competition based on a business game simulation that is designed to enable advanced business students to integrate and apply the theories of their various business courses. Formerly a topic under MGMT 590. Students may not receive credit for both. (4 units)

590. Seminar in Management

An intensive study of some phase of management to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

601. Organization Theory and Behavior

A critical analysis of theories for viewing organizations and an examination of the common models for understanding human behavior, including executive behavior, within the constraints of a complex social system. Prerequisite: MGMT 302 or PSYC 302. (4 units)

603. Research Methods in Administration

Principles of research design, development of research instruments, data accumulation and analysis of significant data, integrated with the use of computers in research. Critique of sample research studies from the literature and a research study conducted by the student. (Also offered as PA 603. Students may not receive credit for both.) Prerequisite: MSCI 210. (4 units)

620. Entrepreneurial Analysis and Regulatory Risk

Critical analysis of the impact of administrative law and policy on entrepreneurial decision-making and strategy. Integrates legal, political, regulatory and ethical issues encountered by entrepreneurs. (4 units)

621. Entrepreneurial Behavior: Theory and Practice

Study of the entrepreneurial process from a behavioral perspective. Review of theoretical and empirical literature as a foundation for analyzing case studies of successful entrepreneurs. Focus on managerial challenges for new and growing companies with special emphasis on the entrepreneurial personality, leadership, ethics, motivation, goal setting, group dynamics, and organizational design. Prerequisite: completion of, or concurrent enrollment in, MGMT 601. (4 units)

625. Entrepreneurial/Small Business Strategy and Policy

Interdisciplinary study of the policies and strategies of entrepreneurship. Integrates important technical and innovative considerations with traditional managerial theories to establish a modern scientific approach to the development of strategies and policies for entrepreneurial and innovative businesses. Prerequisite: completion of concentration electives. (4 units)

640. Methods of Organizational Change

Review of important change methodologies including modeling, operant conditioning, organizational behavior modification, attitude change and organization development (OD). Prerequisite: MGMT 302 or PSYC 302. (4 units)

641. Managing Human Resources

Analysis of specific areas and problems in the administration of human resource systems and policies. Topics include employment law, job analysis, recruitment, selection, performance appraisal, and compensation administration. (4 units)

642. Communication and Interpersonal Processes

Study of interpersonal processes, communication, and conflict as they relate to organizational efficiency and effectiveness, as well as a consideration of the organization as a communication system. (4 units)

644. Industrial Relations

Analysis of industrial relations systems in major industries, collective bargaining institutions, processes, legal environment and problems. (4 units)

645. Negotiation and Bargaining

Theory and practice of negotiation and bargaining including the analytical skills necessary to prepare, plan, and present advocacy positions, anticipate opposing positions, envision and achieve optimal resolutions of disputes. Course participants will simulate, negotiate, debrief, discuss, and evaluate negotiation problems, strategies and tactics. (4 units)

646. Alternative Dispute Resolution and Third Party Intervention

Theory and practice of third party intervention in organizational conflict and the third party roles of consultant, counselor, facilitator, conciliator, mediator, ombudsperson, factfinder, and arbitrator in business and public organizations. (4 units)

650. International Management

Management of organizations in multinational and international environments. Emphasis on economic, political and sociocultural influences. Prerequisite: MGMT 302 or PSYC 302 or MGMT 601 or consent of instructor. (4 units)

670. Green Management

A critical analysis of prevailing, ecologically damaging approaches of management. Exploration of business alternatives for a sustainable economic system in harmony with the environment. (4 units)

685. Corporate Strategy in a Global Economy

Long-term strategy of the business organization in the context of the global economy from the perspective of the General Manager who has overall responsibility for the performance of the firm or the business unit of the firm. Topics include strategy formulation and implementation, industry competitive analysis, core competencies and key success factors, diversification and strategic alliances, all within a global framework. Emphasis is on cases and small-group work. Prerequisites: completion of, or concurrent enrollment in, the last core course for the Master of Business Administration and consent of graduate director. (4 units)

690. Advanced Topics in Management

Intensive study of an advanced topic in management. May be repeated for credit as topics change. (4 units)

COURSE OFFERINGS IN MANAGEMENT SCIENCE (MSCI)

Upper Division**575. Internship in Management Science**

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Management Science

An intensive study of some phase of management science to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

622. Advanced Statistics for Health Science Professionals

Statistical analysis and applications of statistical procedures in nursing and health-related disciplines. Includes descriptive and inferential statistics, SPSS analysis, and coverage of data-bases used in the health care field. Formerly a topic under MSC1 590. (4 units)

690. Advanced Topics in Management Science

Intensive study of an advanced topic in management science. May be repeated for credit as topics change. (4 units)

**COURSE OFFERINGS IN
MARKETING (MKTG)**

Upper Division**520. Integrated Marketing Communication**

An integrated perspective on the process of communicating marketing messages to promote products, services, ideas, people, causes and events. Advertising, direct marketing, personal selling, public relations, and sales promotion strategies are explored with consideration given to global, ethical, and technology-related issues. (Also offered as COMM 520. Students may not receive credit for both). (4 units)

530. Strategic Entrepreneurship

The role of entrepreneurship in today's economy: identifying entrepreneurial opportunities, designing incubator business projects, strategic entrepreneurial alliances and global market strategies for entrepreneurial ventures. The role of marketing mix in the start up and operation of entrepreneurial ventures. Formerly a topic under MKTG 590. Prerequisite: junior standing. (4 units)

540. E-Marketing

Development of a web-based marketing program. Discussion of customer data bases, logistics of E-marketing, and the flow of products, funds, and information in E-channels. Focus is on understanding how goods and services are created and delivered through the web. Three hours lecture and two hours laboratory. Formerly a topic under MKTG 590. (4 units)

560. Services Marketing

The process of designing and marketing intangible services for profit and non-profit organizations. Emphasis on customer-focused strategies for developing, promoting, pricing and evaluating service mixes in a global context. Formerly a topic under MKTG 590. Prerequisite: junior standing. (4 units)

572. Import-Export Management

Current practices and opportunities in importing and exporting goods with emphasis on preparing products for foreign shipment, shipping, necessary documentation and use of free trade zones. Formerly MKTG 472. Prerequisite: MKTG 305 or consent of instructor. (4 units)

575. Internship in Marketing

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Marketing

An intensive study of some phase of marketing to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 5 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

605. Marketing Management

Problem-solving and decision-making in marketing and the interacting effects of such factors as selling, advertising, pricing, consumer behavior and channels of distribution. Prerequisite: MKTG 305 or equivalent. (4 units)

610. Consumer and Organizational Buying Behavior

Influences on the purchasing behavior of individual consumers and organizational buyers. Use of theories, concepts and research findings in management and public policy decisions. Prerequisite: MKTG 605. (4 units)

620. Advertising Management

Emphasis on the managerial approach to advertising in its relationship to marketing management, including consumer behavior, audience analysis, research, advertising media, appeals, campaign development, as well as legal, ethical, and international aspects of advertising. Also examines communication processes and other promotional activities. Prerequisite: MKTG 605. (4 units)

624. Marketing for Entrepreneurs

An in-depth study of entrepreneurial and small business marketing strategies and techniques. Examines how start-up small businesses develop and implement innovative marketing techniques. Provides alternative insights to the conventional approaches of large businesses. Prerequisite: MKTG 605. (4 units)

640. Advanced Marketing Research

Advanced study of current marketing research methods used to gather, analyze and transform data into information required for managerial decision-making. Includes qualitative and quantitative approaches to problem definition, research design, data collection and analysis, interpretation and presentation of research results. Requires use of statistical software. Three hours lecture and two hours activity laboratory. Prerequisite: MKTG 305 or equivalent. (4 units)

670. Global Marketing Strategies

Advanced marketing strategies for developing global markets. Includes the emerging changes in international markets and their impact on general marketing strategies. Formerly a topic under MKTG 690. (4 units)

686. Graduate Project

Preparation of a graduate project under the direction of a faculty member, with the approval of the graduate director, and if an interdisciplinary study major, with the approval of the graduate program coordinator. Maximum of eight units applicable toward the M.B.A. or M.A. in Interdisciplinary Studies. Prerequisite: advancement to candidacy. (Credit to be arranged: 4 to 8 units)

690. Advanced Topics in Marketing

Intensive study of an advanced topic in marketing. May be repeated for credit as topics change. (4 units)

696. Marketing Strategy

A strategy planning approach to marketing management from conceptual and applications perspectives. Focus is on the strategic decision-making process supported by self-analysis and external analysis. Legal, ethical and international aspects are also considered. Prerequisites: MKTG 605 and at least four additional units of 500- or 600-level coursework in marketing and consent of instructor. (4 units)

COURSE OFFERINGS IN OPERATIONS MANAGEMENT (OM)

Upper Division**575. Internship in Operations Management**

Internship in operations management. Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

Students must be fully classified or have written consent of the college graduate director to enroll in graduate level courses.

607. Operations Management

Integration and application of analytical techniques used in manufacturing and service industries. Concepts of decision models are examined for planning, control, forecasting, scheduling, and analysis within an enterprise. Formerly MSCI 607 and POM 607. Prerequisite: OM 304. (4 units)

611. Operations Strategy

Development, implementation and integration of operations management strategy with business and other functional strategies of organization. Topics include: decisions involving positioning, structuring and managing for superior competitive performance. Formerly MSCI 611 and POM 611. Prerequisite: OM 607. (4 units)

614. Advanced Quality Management

Technical and managerial issues for implementing total quality management. Topics include the management of quality planning, organizing, motivation and control; employee involvement teams for total quality; the quality of product design; management of quality and reliability; management of inspection and measurement. Formerly POM 614. Prerequisite: OM 607. (4 units)

615. Project Management

Planning, organizing, staffing, controlling and directing resources to achieve organizational goals and objectives. Development and planning of project strategy and measures of project performance. Formerly POM 612. Prerequisite: OM 607. (4 units)

650. Information Decision Systems

Concepts, principles, practices and tools needed to support the management decision making process. Both static and dynamic models of information management related to decision making will be explored. (Also offered as INFO 650. Students may not receive credit for both.) Formerly POM 650. Prerequisites: OM 607 and INFO 609. (4 units)

660. Supply Management

A comprehensive study of managing the supply chain. Logistics of managing the pipeline of goods from initial contracts with suppliers and control of work-in-process to the movement of finished goods through the channels of distribution. Formerly POM 660. Prerequisite: OM 607. (4 units)

COMMUNICATION

Master of Arts in Communication Studies

Communication Studies Track
Integrated Marketing Communication Track

Certificate

Conflict Management

Department of Communication Studies

University Hall, Room 018
880-5815

FACULTY: Rosalind Bresnahan, Reuyling Chuang, Steven Classen, Risa Dickson (chair), Mary Fong, Vernon Harper, Heather Hundley, Fred Jandt (graduate coordinator), Kevin Lamude, Robin Larsen, Craig Monroe, Merle Perlson, Scott Rodriguez, Donna Simmons

MASTER OF ARTS IN COMMUNICATION STUDIES

Requirements (45 units)

The M.A. in Communication Studies is designed for students who wish to advance from this degree to further graduate work and for those wishing to apply advanced communication perspectives, methodologies, and competencies in their careers. This program is unique in its distinct intercultural orientation, cultivating an understanding of national, racial, ethnic, gender and other cultural differences in a wide range of communication settings and activities. Students are encouraged to develop focused programs of study (e.g., corporate communication, media studies, communication education). Whatever focus the student may achieve, however, will be contextualized by an understanding and application of intercultural communication theory and practice.

Admission to the Program

Students must fulfill all the general requirements for admission to graduate studies at this university. Applicants should take particular note of the graduate entrance writing requirement. The department welcomes applications from international students. Prospective international students should take particular note of university requirements regarding the TOEFL. Applications for admission to the program should be sent to the department graduate coordinator and must include:

1. A copy of the undergraduate transcript indicating graduation with a bachelor's degree from an accredited college or university and communication courses completed;
2. Three letters of recommendation attesting to academic aptitude and accomplishments;
3. A one-page essay describing life/career goals and the role the applicant sees this degree playing in accomplishing these goals.
4. Completion of the graduate entrance writing requirement.

Admission of students to the program will take one of two forms:

1. Regular Admission. In addition to the general requirements for admission to the university, specific requirements for admission to classified graduate status in this program are:
 - A. The equivalent of 24 quarter units of communication course work (students with less background may be required to complete selected undergraduate courses prior to admission to the program). Students pursuing the Integrated Marketing Communication track should complete sixteen units of undergraduate coursework in communication and marketing to include:
 - COMM 306. Communication Perspectives (4)
 - COMM 341. Public Relations Theory and Principles (4)
 - MKTG 305. Marketing Principles (4)
 - MKTG 410. Consumer Behavior (4)
 - B. An undergraduate grade point average of 2.75 overall or 3.0 for the last half of undergraduate course work.
2. Conditional Admission. Students who do not meet all the requirements for regular admission may, with the approval of the departmental graduate committee, be admitted on a conditional basis. Conditional admission provides students with a trial period in which to demonstrate their ability. Conditionally admitted students must complete twelve units of course work at the 500- or 600-level and make no grade lower than "B-" in those courses with an overall grade point average of at least 3.0 to be elevated to classified graduate student status.

Advancement to Candidacy

1. During the first quarter of enrollment, the student shall, with the consent of the faculty member chosen and the approval of the graduate coordinator, select an advisor.
2. Prior to completion of 16 units, the student and advisor shall form the student's graduate advisory committee. The committee shall consist of the advisor and two faculty members, one of whom may be from a related discipline. The committee shall function to: 1) approve the student's program of study; 2) compose and evaluate the student's comprehensive examination (if applicable); and 3) evaluate and approve the student's thesis or project (if applicable).
3. Upon establishing the committee, and prior to completion of 20 units, the student shall forward for the committee's approval a program of study listing course work to be taken and the capstone experience chosen to complete the degree.
4. Upon approval of the plan by the advisory committee, the program of study shall be sent to the graduate coordinator for departmental approval resulting in advancement to candidacy.

Requirements for Graduation

1. Students must complete an approved program of 45 to 48 units with an overall grade point average of 3.0.
2. A minimum of 32 of these units must be at the 500- or 600- level.

3. No course may be counted for which a grade of "C-" or less was received.
4. The student is responsible for fulfilling all other requirements for graduation established by the Dean of Graduate Studies.

Degree Requirements (45-48 units)

Communication Studies Track (45 units)

1. COMM 600. Introduction to Graduate Study (4)
2. COMM 601. Intercultural Communication Theories (4)
3. COMM 602. Quantitative Research Methods in Communication Studies (4)
4. COMM 603. Interpretive Approaches to Communication Studies (4)
5. Electives (29 units)
The student shall, with the advice and approval of the advisory committee and the graduate coordinator, develop a program of study to fulfill the remaining unit requirements for the degree. The program should reflect some unifying theme. Graduate level courses among which the student may choose include:
 - COMM 501. Ethical Aspects of Communication (4)
 - COMM 502. Communication Law and Policy (4)
 - COMM 520. Integrated Marketing Communication (4)
 - COMM 522. Conflict Resolution Methodologies (4)
 - COMM 542. Issue Management and Crisis Communication (4)
 - COMM 580. Language of Culture and Ethnicity (4)
 - COMM 581. Contemporary Theories of Rhetoric (4)
 - COMM 584. Topics in Critical Communication (4)
 - COMM 585. Topics in Human Communication (4)
 - COMM 587. Topics in Mass Communication (4)
 - COMM 588. Topics in Intercultural Communication (4)
 - COMM 589. Topics in Computer Mediated Communication (4)
 - COMM 593. Communication Approaches to Area Studies (4)
 - COMM 610. Media and Intercultural Relations (4)
 - COMM 620. Communication in Multicultural Organizations (4)
 - COMM 671. International Communication (4)
 - COMM 672. Intercultural Peace Making (4)
 - COMM 686. Graduate Project (4-8)
 - COMM 689. Practicum for Teaching Assistants in Communication Studies (1)
 - COMM 690. Seminar in Organizational Communication (4)
 - COMM 691. Seminar in Public Relations (4)
 - COMM 692. Seminar in Interpersonal Communication (4)
 - COMM 693. Seminar in Mass Communication (4)
 - COMM 694. Seminar in Intercultural Communication (4)
 - COMM 695. Graduate Independent Study (2-5)
 - COMM 696. Practicum in Intercultural Living (2-5)
 - COMM 697. Internship in Communication (2-5)

COMM 698. Extended Enrollment (0)

COMM 699. Thesis (5)

Students cannot apply any course previously applied to another degree or track. Students may, with the approval of the advisory committee and the Graduate Coordinator, substitute up to 8 units of course work from a related discipline or disciplines. Students pursuing the project capstone option must include five units of COMM 686 as the vehicle for their project. Students pursuing the thesis option must include five units of COMM 699 as the vehicle for their thesis.

6. Capstone Experience

Students must, with the advice and approval of their advisory committee and the Graduate Coordinator, choose one of three cumulative experiences for their program of study.

Comprehensive Examination. Students may, with the approval of their advisory committee, fulfill the capstone requirement through a comprehensive examination. The examination tests the student's mastery of perspectives and competencies in the core curriculum as well as those associated with the individual student's program of study. The examination will be developed and evaluated by the student's advisory committee, administered during the student's final quarter in residence, and carry no academic credit.

Thesis. Students may, with the approval of their advisory committee and the Graduate Coordinator, fulfill the capstone requirement through developing and executing an original research project designed to extend or apply our understanding of communication in important and unique ways. The student shall make a public presentation of the prospectus for the thesis no later than two quarters before its completion. The prospectus must be approved by the advisory committee. The student will make a public defense of the thesis during the last quarter of residence. The completed thesis must be approved by the advisory committee and the Dean of the Graduate School. Students choosing this option must register for five units of COMM 699 in the quarter in which the thesis is to be defended.

Project. Students may, with the approval of their advisory committee and the Graduate Coordinator, fulfill the capstone requirement through developing and executing a project with a significant written component to be completed in conjunction with an internship. The project shall be developed among the student, the advisor, and an on-site internship supervisor. The written component of the project must follow specified guidelines, be approved by the advisory committee, and will be presented publicly during the student's last quarter in residence. The completed project must be approved by the advisory committee and the Dean of Graduate Studies. Students choosing this option must register for five units of COMM 686 in the quarter in which the internship is to be conducted.

Integrated Marketing Communication Track (48 units)

Prerequisites (16 units)

1. COMM 306. Communication Perspectives (4)
2. COMM 341. Public Relations Theory and Principles (4)
3. MKTG 305. Marketing Principles (4)
4. MKTG 410. Consumer Behavior (4)

Degree Requirements (48 units)

1. COMM 601. Intercultural Communication Theories (4)
2. COMM 605. Introduction to Graduate Studies in Integrated Marketing (4)
3. COMM 691. Seminar in Public Relations (4)
4. Four units chosen from:
 - COMM 602. Quantitative Research Methods in Communication Studies (4)
 - COMM 603. Interpretive Approaches to Communication Studies (4)
5. MKTG 605. Marketing Management (4)
6. MKTG 610. Consumer and Organizational Buying Behavior (4)
7. MKTG 620. Advertising Management (4)

Electives (15-20 units)

No more than eight elective units can be applied from courses taught outside of Communication Studies.

- COMM 405. Advanced Study of Media Effects (4)
- COMM 415. Advertising as Social Communication (4)
- COMM 442. Public Relations Campaigns (4)
- COMM 450. Broadcast Research and Audience Analysis (4)
- COMM 520. Integrated Marketing Communication (4)
- COMM 522. Mediation Theory and Practice (4)
- COMM 542. Issue Management and Crisis Communication (4)
- COMM 589. Topics in Computer Mediated Communication (4)
- COMM 602. Quantitative Research Methods in Communication Studies (4)
- COMM 603. Interpretive Approaches to Communication Studies (4)
- COMM 620. Communication in Multicultural Organizations (4)
- COMM 690. Seminar in Organizational Communication (4)
- COMM 695. Graduate Independent Study (2 to 5)
- COMM 697. Internship in Communication (2 to 5)
- INFO 609. Information Management Systems (4)
- MKTG 446. Advertising Campaigns (4)
- MKTG 530. Strategic Entrepreneurship (4)
- MKTG 590. Seminar in Marketing (4)
- MKTG 640. Advanced Marketing Research (4)
- MKTG 690. Advanced Topics in Marketing (4)
- MKTG 696. Marketing Strategy (4)

Capstone Experience: Project/Thesis (5 units) or
Comprehensive Examination (0 units)

1. Choose one of the following:
Students will choose one of the following capstone experiences to complete their program. See category 6 in the

Communication Studies Track for an explanation of these options.

COMM 686. Graduate Project (5)

COMM 699. Thesis (5)

COMM 999. Comprehensive Examination (0)

Graduate Assistantships

A limited number of graduate assistantships are available, on a competitive basis, for students who wish to pursue the degree full-time. Interested applicants should contact the Graduate Coordinator in the Department of Communication Studies for further information.

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or Extended Learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Conflict Management

This certificate can also be used by students in the Master of Business Administration and Master in Public Administration.

Admission to the Program

1. Postbaccalaureate standing.

Certificate Requirements (24 units)

1. COMM 522. Mediation Theory and Practice (4)
2. COMM 670. Seminar in Conflict and Conflict Resolution (4)
3. MGMT 645. Negotiation and Bargaining (4)
4. MGMT 646. Alternative Dispute Resolution and Third Party Intervention (4)
5. Eight units chosen from:
 - COMM 672. Intercultural Peace Making (4)
 - COMM 673. Advanced Mediation Skills (4)
 - MGMT 642. Communication and Interpersonal Processes (4)

May choose only one of the following two courses:

MGMT 644. Industrial Relations (4)

PA 557. Public Sector Labor Relations (4)

COURSE OFFERINGS IN COMMUNICATION (COMM)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Introduction to Graduate Study

Theory building in communication research. The assumptions, methods, perspectives and theoretical frameworks for advanced research in communication studies. Recommended for first quarter of graduate study, must be taken within first year. (4 units)

601. Intercultural Communication Theories

Study of the relationship between culture and communication with emphasis given to an examination of current quantitative and interpretative theory and research. Implications and applications to various kinds of human relationships and various aspects of those relationships (e.g. interpersonal, organizational, national, international and mediated). Recommended for first quarter of graduate study, must be taken within the first year. (4 units)

602. Quantitative Research Methods in Communication Studies

Study, design, data collection, and appropriate multivariate procedures for research through behavioral/quantitative approaches. Emphasis on research conducted in multicultural settings. Extensive work designing research instruments and employing computerized statistical applications. Prerequisites: COMM 400 and 600, or consent of department. (4 units)

603. Interpretive Approaches to Communication Studies

Theoretical treatises and exemplars in diverse areas which may include ethnographic, feminist, critical, and textual-discourse analysis. Emphasis on research conducted in multicultural settings. Extensive work in such interpretive methods as participant and nonparticipant observation, intensive interviewing, discourse analysis and criticism. Prerequisite: COMM 600. (4 units)

605. Introduction to Graduate Studies in Integrated Marketing Communication

Theory building in integrated marketing communication research. The assumptions, methods, perspectives, theoretical frameworks and case study analysis for advanced research in communication studies, marketing and advertising. Recommended for first quarter of graduate study, must be taken within first year. (4 units)

609. Digital Culture

Examination of the interactions among communication technology, new media, and culture with particular focus on intercultural and global communication. Prerequisite: COMM 309 or consent of department. (4 units)

610. Media and Intercultural Relations

Focus on how media and intercultural communication shape one another, including the relationship between the public and private processes of technologically-mediated interaction, transformations in interpersonal relations, and the social construction of contemporary discourses and lifestyles. (4 units)

620. Communication in Multicultural Organizations

Study and analysis of communication patterns in multinational and multicultural organizational settings. Analysis of intercultural communication theories as sources of explanations and strategies for developing and managing a culturally diverse organization. (4 units)

670. Seminar in Conflict and Conflict Resolution

Survey course on the origins, history, models and theories of conflict and conflict resolution. Includes cultural issues, non-violent social movements, and the developing field of online conflict resolution. (4 units)

671. International Communication

Advanced study of issues in international communication in the context of globalization. Examination of the political, economic and cultural impact of communication across national boundaries, including news, entertainment, advertising, corporate communication, transborder data flows, and the Internet. (4 units)

672. Intercultural Peacemaking

Study of communication strategies for international and domestic peacemaking among diverse groups and interests. (4 units)

673. Advanced Mediation Skills

Application of selected mediation theories and skills such as group facilitation, group development, and language analysis. Prerequisite: COMM 522 or equivalent. (4 units)

686. Graduate Project

Preparation of a graduate project under the direction of a faculty member, with the approval of the graduate director, and if an interdisciplinary study major, with the approval of the graduate program coordinator. Project proposals should be approved by the program coordinator in the quarter prior to enrollment in the course. Maximum of eight units applicable toward the M.A. in Interdisciplinary Studies. Prerequisite: advancement to candidacy. (Credit to be arranged: 4 to 8 units)

689. Practicum for Teaching Assistants in Communication Studies

For students appointed as teaching assistants in communication studies. The course is designed to facilitate the development, refinement and maintenance of effective teaching methods and strategies. May be repeated for a total of three units. Graded credit/no credit. (1 unit)

690. Seminar in Organizational Communication

Intensive study of selected topics in organizational communication. May be repeated for credit as topics change. Prerequisite: COMM 421 or consent of department. (4 units)

691. Seminar in Public Relations

Intensive study of selected topics in public relations. May be repeated for credit as topics change. Prerequisite: COMM 341 or equivalent. (4 units)

692. Seminar in Interpersonal Communication

Intensive study of selected topics in interpersonal communication. May be repeated for credit as topics change. (4 units)

693. Seminar in Mass Communication

Intensive study of selected topics in mass communication. May be repeated for credit as topics change. (4 units)

694. Seminar in Intercultural Communication

Intensive study of selected topics in intercultural communication. May be repeated for credit as topics change. Prerequisite: COMM 304 or equivalent. (4 units)

695. Graduate Independent Study

Advanced reading/research on a specific topic relevant to the student's program of study. Prerequisite: approval by the student's committee. (Credit to be arranged: 2 to 5 units)

696. Practicum in Intercultural Living

Students will complete academic assignments based on, and during residence in a domestic or foreign community other than their own. Graded credit/no credit. Prerequisites: COMM 602 or 603, approval of student's committee; graduate level status with a minimum overall grade point average of 3.0. Student must secure a written agreement with a sponsoring agency and departmental approval of that agreement. (Credit to be arranged: 2 to 5 units)

697. Internship in Communication

Supervised work experience in which the student completes academic assignments integrated with off-campus paid or volunteer activities. Graded credit/no credit. A maximum of five units of credit in COMM 697 will be accepted toward the M.A. degree. Prerequisites: approval of student's committee; graduate level status with a minimum overall grade point average of 3.0 ("B"). Student must secure a written agreement with the supervising agency in which the internship will take place and departmental approval of that agreement. (Credit to be arranged: 2 to 5 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis

Independent graduate research culminating in a written thesis. Prerequisites: approval of prospectus by the student's advisory committee, advancement to candidacy, completion of all other required courses for the M.A. or consent of department. (5 units)

COMPUTER SCIENCE

Master of Science in Computer Science

Department of Computer Science

Jack Brown Hall, Room 307
880-5326

FACULTY: Richard Botting, Judith Cestaro, Arturo Concepcion (Chair), George Georgiou, Ernesto Gomez, Dennis Ikenberry (Emeritus), Yasha Karant, Fook Fah Liu (Emeritus), Josephine Mendoza (Coordinator), Owen Murphy, David Turner, Kerstin Voigt (Coordinator), Tong Yu, Kay Zemoudeh

MASTER OF SCIENCE IN COMPUTER SCIENCE

Requirements (45 units)

The Master of Science in Computer Science degree program provides a technically oriented postbaccalaureate scientific education for those who wish to acquire or extend their knowledge in the field of computer science. The program combines both the study of modern computer devices and their applications along with the study of the philosophical foundations which underlie the discipline.

In addition to the above goals and objectives, the program is also committed to improving the writing and communication skills of the student.

Admission to the Program

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

1. An acceptable score on the GRE (general examination only);
2. Three letters of recommendation;
3. Completion of the graduate entrance writing requirement;
4. A statement of purpose from the student; and
5. Either A or B below:
 - A. A baccalaureate degree in computer science;
 - B. A baccalaureate degree in a related field with a cumulative grade point average of "B" (3.0) or better with no grade lower than "C+" (2.3) in a selection of program preparatory courses including:
 1. The equivalent of a one-year sequence of "Introduction to Computer Science" courses, as defined by the ACM Curriculum Committee as courses CS1 and CS2. This can be satisfied by the successful completion of:

CSCI 201.	Computer Science I
CSCI 202.	Computer Science II
CSCI 330.	Data Structures
 2. Courses in calculus and discrete mathematics equivalent to:

MATH 211.	Basic Concepts of Calculus
MATH 212.	Calculus II
MATH 272.	Discrete Mathematics

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Secured a major advisor from the Department of Computer Science for the preparation of the thesis or the implementation of a project;
3. Completed at least 12 quarter units and no more than 20 quarter units of work applicable to the degree program as a graduate student at this university with a minimum grade point average of 3.0 ("B");
4. Submitted a formal program of graduate study prepared in consultation with and approved by the Department of Computer Science graduate committee and/or the major advisor. This program of graduate study should include an abstract to serve as a thesis research proposal for the thesis option or a tentative title and description of the project for the project option;
5. Obtained final approval of the program and of the candidacy itself by the Department of Computer Science graduate committee and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work included in the formal program with 500- and 600-level courses in computer science. No more than eight units may be earned from 500-level courses;
2. Advancement to candidacy and approval of the specific program of study;
3. A public presentation of a thesis or project;
4. Completion of a final oral examination concluded by acceptance of the thesis, for the thesis option; or satisfactory passage of the comprehensive oral examination and completion of the project, for the project option;
5. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and completion of all requirements for the degree;
6. A grade point average of at least 3.0 ("B") in all graduate course work fulfilling the requirements of the Master of Science in Computer Science and grades of "C" (2.0) or better in all courses in the program;
7. For the thesis option, the student will submit the written thesis in bound form to the department. For the project option, the student will submit the written software engineering documentation in bound form to the department;
8. The graduation writing requirement is met upon successful completion of term papers in the graduate courses taken by the student and the writing of the thesis or software engineering documentation of the project;
9. Any additional general requirements not cited above and listed on [Page 364](#).

Department Graduate Committee and Major Advisor

The Department of Computer Science graduate committee consists of the graduate coordinators and two or more faculty members from the Department of Computer Science. The committee has general supervision over the work of students progressing towards the master's degree and will determine whether students are adequately prepared for graduate study.

Each new graduate student should consult with the graduate coordinator for advice in the selection of the appropriate program of graduate study.

Students must choose and be accepted by a major advisor prior to their advancement to candidacy and the initiation of a thesis or project. The major advisor in consultation with the student will develop a program of graduate study consisting of specific courses and an acceptable thesis abstract or project proposal based on the student's interest, abilities and preparation. The major advisor will direct this research.

The program of graduate study as well as any subsequent modification of the thesis or project are subject to the approval of the Department of Computer Science graduate committee and the Dean of Graduate Studies.

Thesis Preparation, Presentation and Examination

The student must conduct a research study, and from these efforts, write a thesis acceptable to the student's thesis committee and the Dean of Graduate Studies. The student's thesis committee shall be chaired by the major advisor and two other faculty members who are chosen by the student upon consultation with the major advisor and the graduate coordinator. The thesis topic and major advisor must be included on the program of graduate study submitted with the application to candidacy, although this may be amended.

The student shall enroll in CSCI 699 at a rate of two to six units per quarter for all contiguous academic year quarters starting from the time of advancement to candidacy until the thesis is completed and accepted. Over that period, nine units of CSCI 699 will count toward the degree.

The student, upon completion of the thesis, must give a public presentation of the research and stand for the defense of the thesis before the faculty made up of the thesis committee and any other faculty members who wish to attend. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

Project Preparation, Presentation and Examination

The student must implement and complete a project acceptable to the student's project committee and the Dean of Graduate Studies. The student's project committee shall be chaired by the major advisor and two other faculty members who are chosen by the student after consultation with the major advisor and the graduate coordinator.

The project topic and major advisor must be included on the program of graduate study submitted with the application to candidacy, although this may be amended.

The student shall enroll in CSCI 690 at the rate of two to five units per quarter for all contiguous academic quarters starting from the time of advancement to candidacy until the project is completed and accepted. Over that period, five units of CSCI 690 will count toward the degree.

The student, upon completion of the project, must give a public presentation of the project and stand for oral examination before the faculty made up of the project committee and any other faculty members who wish to attend. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

Prerequisite courses:

1. CSCI 598. Foundations of Computer Architecture (4) (Must be taken by students who did not have the equivalent of computer organization and architecture courses. This course may be taken as an elective.)
2. CSCI 599. Foundations of Software Systems (4) (Must be taken by students who did not have the equivalent of software engineering and operating system courses. This course may be taken as an elective.)

Degree Requirements (45 units)

1. CSCI 600. Formal Languages and Automata Theory (4)
2. CSCI 610. Modern Computer Architecture (4)
3. CSCI 630. Theory of Algorithms and Their Analysis (4)
4. CSCI 655. Software Engineering Concepts (4)
5. CSCI 660. Operating Systems Concepts and Theory (4)
6. Twenty-five units from one of the following options:
 - A. Thesis Option
 1. CSCI 699. Thesis (9)
 2. Sixteen units of elective coursework chosen from 500- to 600-level computer science courses and deemed appropriate by the department graduate committee. Up to eight units of 500-level computer science courses may be taken.
 - B. Project Option
 1. CSCI 690. Master's Project (5)
 2. Twenty units of elective coursework chosen from 500- to 600-level computer science courses deemed appropriate by the department graduate committee. Up to eight units of 500-level computer science courses may be taken.

COURSE OFFERINGS IN COMPUTER SCIENCE (CSCI)

Upper Division

500. Introduction to Formal Languages and Automata (W)

Introduction to formal language theory. Finite state machines, regular grammars, context-free grammars, context-sensitive grammars, push-down automata, closure properties. Prerequisite: CSCI 331 or consent of instructor. (4 units)

510. Advanced Computer Architecture (W)

High performance computer architectures and algorithms including pipeline, vector, array, multi-processor computer designs, applications, and programming. Also covered are data flow and systolic machines, interconnection networks, and graph and parallel graph algorithms. Formerly CSCI 410. Three hours lecture and two hours laboratory. Prerequisite: CSCI 401 (or 311). (4 units)

511. Expert Systems

Expert systems components, problems and applications. Knowledge bases, inference "engines," and their integration within expert systems. Tools for building expert systems, system algorithms as related to hardware, implementation languages and examples of systems in operation. Prerequisite: CSCI 330. (4 units)

512. Introduction to Artificial Intelligence (W)

Problems and issues of artificial intelligence, current techniques and methods, and future prospects of machine intelligence. Three hours lecture and two hours activity laboratory. Formerly CSCI 411. Prerequisite: CSCI 330. (4 units)

513. Advanced Artificial Intelligence (S)

Advanced issues and techniques in artificial intelligence; intelligent agents for problem solving, reasoning and learning; advanced artificial intelligence programming in LISP. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 512 (or 411) or consent of instructor. (4 units)

515. Automated Reasoning (F)

Study of deduction algorithms for expert systems and the limitations thereof, propositional calculus, quantification theory, completeness and incompleteness theorems, Hebrand-Godel computability, resolution principle, equality and inequality relations. Prerequisite: CSCI 431 (or 331). (4 units)

520. Advanced Computer Graphics (S)

Advanced computer graphics concepts, theory and implementation techniques. Topics include shading models, parametric curves and surfaces, hidden edge and surface removal, and anti-aliasing. Prerequisites: CSCI 420, MATH 331 and either MATH 213 or 251. (4 units)

524. Supercomputing and Visualization

Design and implementation of scientific applications on high performance computers emphasizing graphics and visualization techniques. Topics include parallel algorithm development, multiprocessor and multicomputer programming, and real-time visualization programming of computationally intensive problems in the sciences. Prerequisite: CSCI 202 or consent of instructor. (4 units)

525. Parallel Algorithms and Programming (S)

Topics include algorithm design, analysis, and programming of high performance computers. Also covered are control-parallel versus data-parallel approaches, PRAM algorithm design, and selected parallel programming languages. Four hours lecture. Prerequisite: CSCI 401. (4 units)

530. Data Communications and Networks (F)

Topics include baseband and broadband signals and modulation schemes. Error detecting and correcting codes, ISO protocol standard, packet switching and various local network schemes. Formerly CSCI 430. Prerequisites: CSCI 313 (or 260) and 330. (4 units)

540. System Simulation (F)

Theory and implementation of computerized modeling. Examples will include administrative, physical and biological systems. Prerequisite: CSCI 330 or consent of instructor. (4 units)

546. Introduction to Theory of Computation (S)

Deterministic and non-deterministic Turing machines, decidable and undecidable problems, complexity classes P and NP. Formerly CSCI 505. Prerequisite: CSCI 431 (or 331). (4 units)

556. Introduction to Formal Methods, Models and Languages (W)

Applications of logic and mathematics in documenting problems, requirements, specifications, designs, and software. Formal modeling languages. Diagrammatic, algebraic, and tabular models. Model checking. Students prepare, check, and present models using techniques in the literature. (Also offered as CSCI 656. Students may not receive credit for both.) Three hours lecture and two hours activity laboratory. Prerequisites: CSCI 320 and 330. (4 units)

565. Systems Programming (W)

Concepts of, and implementation techniques for systems software such as assemblers, editors, interpreters, linkers, loaders and operating systems. Formerly CSCI 450 and 465. Prerequisite: CSCI 460. (4 units)

570. Compilers (S)

Interpreter and compiler structures. Topics include symbol tables, lexical and syntactic scanners, and object code generation. Three hours lecture and two hours activity laboratory. Formerly CSCI 470. Prerequisites: CSCI 313 (or 260), 320 and 330. (4 units)

572. Data Base Systems (F)

Basic concepts of data base and the different approaches to data base organization—relational, network and hierarchical. Discusses storage structures necessary for an implementation of a data base design and provides "hands-on" application on one or more commercial data base management systems. Three hours lecture and two hours activity laboratory. Formerly CSCI 480. Prerequisite: CSCI 350. (4 units)

575. Internship in Computer Science

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisite: consent of internship coordinator. (5 units)

580. Advanced Data Base Systems (W)

Advanced description: advanced study of components of general data base systems and other topics such as implementation methods, query language design, reliability, integrity, performance measures, distributed database systems and database machines. Three hours lecture and two hours activity laboratory. Prerequisite: CSCI 572. (4 units)

594. Topics in Computer Science (S)

An in-depth consideration of selected areas of computer science. May be repeated for credit as topics change. Formerly CSCI 494, credit may not be received twice for the same topic. Prerequisite: CSCI 431 (or 331) or consent of instructor. (4 units)

595. Independent Study

Laboratory and/or library research conducted under the direction of a faculty member. A total of five units in CSCI 595 may be applied toward the computer science major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

598. Foundations of Computer Architecture (FS)

Boolean algebra and logic gates; combinational and sequential logic; processor design; data path design; control design; memory organization; and system organization. Prerequisites: CSCI 202, MATH 272, and consent of instructor. (4 units)

599. Foundations of Software Systems (W)

Software development process which includes software life-cycles, software techniques and technologies used to produce large software systems; operating systems including processes, input/output, memory management, and file systems. Prerequisites: CSCI 330 and consent of instructor. (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Formal Languages and Automata Theory (W)

Formal models in computer science including context free grammars, finite automata, regular expressions, pushdown automata and Turing machines. May not be taken for credit by students who have received credit for CSCI 500. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

610. Modern Computer Architecture (W)

Study of the elements and construction of advanced computer systems, including parallel systems, vector processors, network scheduling, neural networks, pipelining, array processors, and systolic arrays. May not be taken for credit by students who have received credit for CSCI 510 (or 410). Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

611. VLSI Circuit Design (F)

Fundamental design techniques for Very Large Scale Integrated (VLSI) circuits; physics of semi-conductor devices; design rules and circuit layouts; use of computer-aided design tools for design, layout and testing. Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

620. Programming Languages Theory (W)

Theory of programming languages, including implementation details, the required machine and data structures needed for user interfaces, coded parallelism, distributed processing facilities, functional and object oriented programming languages. Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

621. Contemporary Computer Graphics (S)

Theory and practice of modern graphics techniques. Topics include 3-D modeling, interaction, ray tracing, object representation, visualization, and animation techniques. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

624. Distributed Computer Systems (F)

Open Systems Interconnection (OSI) transport, presentation and application layers; distributed control; access methods; reliability; heterogeneity; resilience; applications in network operating systems, distributed operating systems and distributed database systems. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

625. Multiprocessor and Parallel Processing (S)

Tightly and loosely coupled multiprocessors; interconnection network; parallel programming languages; scheduling; problem decomposition; operating systems; performance; synchronization and communication; user-interface and programming environment; multiprocessor machine programming. May not be taken for credit by students who have received credit for CSCI 525. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

630. Theory of Algorithms and Their Analysis (S)

Algorithmic techniques, algorithm construction, algorithmic time and space complexities, properties of algorithms' taxonomic classes; survey of processing algorithms for graphs, trees, sets, and sequences; algebraic, numeric and geometric analysis techniques. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

634. Neural Networks (F)

Theory and applications of neural networks; current developments; perceptrons; Hopfield networks; self-organizing mappings and content-addressable memories; multi-layer networks. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

640. Artificial Intelligence (S)

Knowledge representations; heuristics; theory of problem solving; adaptive systems; natural language understanding; automatic theorem proving; learning and robotics systems. Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

646. Theory of Computation (S)

Theoretical foundations of computer science; models of computation; recursive functions; Church's thesis and undecidable problems; complexity classes P, NP, CO-NP and PSPACE. May not be taken for credit by students who have received credit for CSCI 546 (or 505). Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

655. Software Engineering Concepts (F)

Analyses of software requirements definitions, software systems design, implementation issues, verification and validation, and software maintenance techniques; rapid prototyping procedures; operational and transformational paradigms of software development; software engineering models and CASE tools including reverse engineering and module reusability concepts; applications in object-oriented programming languages. Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

656. Formal Methods, Models and Languages (W)

Applications of logic and mathematics in documenting problems, requirements, specifications, designs, and software. Formal modeling languages. Diagrammatic, algebraic, and tabular models. Model checking. Students prepare, check, and present models using techniques in the literature for a research paper. Students may not receive credit for both CSCI 556 and 656. Three hours lecture and two hours activity laboratory. Prerequisite: classified status. (4 units)

657. Structured Systems Analysis and Design (W)

Systems life cycle; function and data flows; entity-relationship models; objects and life histories; requirements specification and prototypes; conceptual, essential logical, and physical designs. Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

660. Operating Systems Concepts and Theory (S)

Operating system concepts and scheduling practices, including memory management, virtual machine architectures, job and task scheduling, multitasking, interrupt handling, message passing, multiprocessing, resource sharing, file systems and peripherals access scheduling; distributed processing environments and parallel processing facilities. Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

670. Compiler Design Theory (S)

Compiler design for block structures, general purpose programming languages; automatic generation of lexical analyzers and parsers; error detection and correction; code optimization. Three hours lecture and two hours laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

671. Advanced Compilers (F)

Intermediate code generation, optimization, object code generation and architecture and optimized compiler co-design. Prerequisite: graduate standing in computer science or consent of instructor. An introductory course in compilers is recommended. (4 units)

680. Distributed Database Management Systems (W)

Distributed database issues including methods of data distribution, types of remote database access, concurrency management, extensions to Structured Query Language (SQL) for remote databases, cooperative processing, database machines and intelligent databases. May not be taken for credit by students who have received credit for CSCI 580. Three hours lecture and two hours activity laboratory. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

690. Master's Project

Independent graduate project conducted under the guidance of a major advisor; total of at least five units of CSCI 690 must be taken in contiguous quarters. Prerequisites: advancement to candidacy and consent of department major advisor. (Credit to be arranged: 2 to 5 units)

695. Graduate Independent Study

Independent graduate research in computer science. A total of four units in this course may be applied toward the M.S. degree. Prerequisites: graduate standing in computer science, consent of instructor, and approval of a written proposal of the research by the department graduate program coordinator. (Credit to be arranged: 2 to 4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis

Independent graduate research conducted under the guidance of a major advisor; total of at least nine units for CSCI 699 must be taken in contiguous quarters. Prerequisites: advancement to candidacy and consent of department major advisor. (Credit to be arranged: 2 to 6 units)

COUNSELING AND GUIDANCE

Master of Science in Counseling and Guidance

University Hall, Room 401.24
880-5606

FACULTY: Susan Brotherton, Margaret Cooney,
Louis Downs, Camille Mayers, Donna Schnorr,
Joseph Turpin, Dudley Wiest

MASTER OF SCIENCE IN COUNSELING AND GUIDANCE

Requirements (72 units)

The M.S. in Counseling and Guidance is a professional program preparing students to become educational counselors. The degree program is designed to fulfill all the California State requirements for counseling in grades K-12, so that a graduate will concurrently receive the M.S. and the California Pupil Personnel Services Credential.

Admission to the Program

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

1. Attend an Educational Counseling Program admission orientation meeting (held winter and spring quarters, as announced);
2. Submission of an Admissions Portfolio following criteria and guidelines provided at the orientation meetings. Portfolios will be evaluated in accordance to the Educational Counseling program portfolio rubric, student will be notified as to their status to enroll in ECLG 531. Completed portfolio contains:
 - a. Application and current vitae/resume;
 - b. Transcripts of all higher education coursework;
 - c. Written Personal Statement;
 - d. Three positive recommendations from persons having knowledge of applicant's counseling potential (forms provided by program);
 - e. Proof of successful completion of the CBEST;
 - f. Evidence of current negative TB skin test;
 - g. Evidence of possession of professional liability insurance;
 - h. Evidence of possession of a valid California teaching credential or a Certificate of Clearance for eligibility to participate in fieldwork;
 - i. Completion of EDUC 306 (or its equivalent) with a grade of "B" or better (fulfills the graduate entrance writing requirement);
 - j. Evidence of technological literacy in six areas: word processing, database, computer presentation, downloading, internet and email;
3. Completion of ECLG 531 with a grade of "B" (3.0) or better. Must be taken concurrently with EDUC 663. A recommendation from the instructor (a full-time faculty

member) of ECLG 531 which includes an evaluation in relation to the course competencies.

Upon completion of the above requirements, the student's file will be reviewed by an admission committee composed of at least three members of the Educational Counseling faculty. This committee will evaluate the admission folder and decide on the student's admission status. Students who do not meet admissions criteria will be notified of their deficiencies.

Advancement to Candidacy

In order to be formally advanced to candidacy a student must have:

1. Achieved classified graduate standing;
2. Completed 20 quarter units of coursework with a grade point average of 3.0 ("B"), to include ECLG 619, 654 and 656;
3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with a program advisor and approved by the program coordinator.

Requirements for Graduation

1. A minimum of 72 quarter units of acceptable graduate-level work, with a minimum of 54 units completed in residency at this university;
2. A minimum of 25 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the degree requirements, including a minimum of a "B" in ECLG 531 and 657A, a grade of "Credit" in ECLG 657B, and no grade below a "C" (2.0) in all other courses in the program;
4. The graduation writing requirement is met by successful completion of the written comprehensive examination;
5. Completion of a graduation requirement check;
6. Any additional requirements not cited above and listed on [Page 364](#).

The written comprehensive examination is designed to test the student's knowledge of the field of counseling and guidance. The examination is offered once each quarter. Students must enroll in the examination either through the regular registration process or through the College of Extended Learning in the Open University program. The student may enroll in the examination no earlier than the last quarter in which coursework is taken. Students who do not receive a passing score may petition the College of Education to retake the exam or any part of it and students must enroll in ECLG 699 for remediation. The student must be advanced to candidacy one quarter before taking the comprehensive examination. The student must complete a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted. Students who do not receive a passing score may petition the College of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to retake the exam. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 18 quarter units in extension and transfer credit from other colleges. California State University, San Bernardino will not consider for transfer

credit course work from an institution which will not accept that work in its own advanced degree program.

Prerequisite courses:

1. ECLG 531. Introduction to Counseling (4)
Note: Must be taken concurrently with EDUC 663.
2. EDUC 306. Expository Writing for Education (4) or its equivalent

Degree Requirements (72 units)

1. EDUC 663. Introduction to Educational Research (4)
2. ECLG 601. Research Methods in Counseling (4)
3. ECLG 619. Appraisal Procedures in Counseling (4)
4. ECLG 632. Advanced Psychological Foundations of Education (4)
5. ECLG 633. Advanced Study in Child and Adolescent Development (4)
6. ECLG 650. Applied Career Counseling (4)
7. ECLG 651. Professional School Counselor (4)
8. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4)
9. ECLG 655. Multicultural Counseling (4)
10. ECLG 656. Counseling Theories and Techniques (4)
11. ECLG 657A. Counseling Practicum (4)
12. ECLG 657B. Counseling Practicum (4)
13. ECLG 658. Consulting with Parents and Staff (4)
14. ECLG 672. Leadership, Advocacy and Preventive Education in Counseling Services (4)
15. ECLG 678. Theory and Practice in Group Counseling (4)
16. ECLG 679A. Counseling Field Experience: Multicultural (4)
17. Eight units chosen from:
 - ECLG 679B. Counseling Field Experience: Elementary School (4)
 - ECLG 679C. Counseling Field Experience: Middle School (4)
 - ECLG 679D. Counseling Field Experience: High School (4)
18. ECLG 699. Advanced Seminar in Educational Counseling (4)
19. ECLG 999. Written Comprehensive Examination (0)

COURSE OFFERINGS IN EDUCATIONAL COUNSELING (ECLG)

Upper Division

531. Introduction to Counseling

Experience-based introduction to counseling and its techniques. This course cannot be counted among the 72 units required in the Master of Science in Counseling and Guidance. Must be taken concurrently with EDUC 663 for students in the M.S. in Counseling and Guidance and the Pupil Personnel Services Credentials. Prerequisite: approval of admission portfolio. (4 units)

542. Seminar in Educational Counseling

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

601. Research Methods in Counseling

Introduction to qualitative and quantitative research methods in counseling. Includes the reading and conduct of research and evaluation studies. (4 units)

619. Appraisal Procedures in Counseling

Individual and group measurement techniques, behavior observation skills, test interpretation, rights and responsibilities of test takers and administrators, and an introduction to personality, aptitude, achievement and career interest measurements. Prerequisites: ECLG 531 with a grade of "B" (3.0) or better and 601 for students in the M.S. and P.P.S. credential program; ECLG 531 with a grade of "B" (3.0) or better and EDUC 663 for students in the M.A. in Education, Educational Counseling Option. (4 units)

632. Advanced Psychological Foundations of Education

Focuses on the interaction of the learning-teaching process. Emphasis on pertinent learning theories of general and special education individual differences in capacities and development of learners, and evaluation of learning and instructional models. Particular attention will be paid to the education of learners with exceptionalities and inclusive classrooms. Theories of motivation and research findings with specific relevance to learning process and human development within the context of educational psychology will be examined. Special attention will be paid to positive behavior interventions and principles of classroom management. Includes 30 hours of practica. (4 units)

633. Advanced Study in Child and Adolescent Development

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. Topics will include cognitive, social, and personality development, and will examine biological, environmental, and family influences. Prerequisites: ECLG 531 and 632. (4 units)

647. Individual Testing and Case Study Techniques I

Intensive practice in administration and interpretation of the Wechsler Scales: Wechsler Preschool and Primary Scale of Intelligence, Wechsler Adult Intelligence Scale and Wechsler Intelligence Scale for Children Revised. Three hours lecture and four hours practica. Materials fee required. Prerequisite: ECLG 619 or equivalent. (5 units)

648. Individual Testing and Case Study Techniques II

Intensive practice in administration and interpretation of Stanford-Binet, memory scales, cognitive processing scales, and selected personality measures with attention to integration of results in case studies. Three hours lecture and four hours practica. Materials fee required. Prerequisite: ECLG 647. (5 units)

649. Ecological Assessment and Case Study Techniques

Curriculum-based and play-based authentic assessment techniques. Use of ecological and alternative methods of assessing students and their needs. Three hours lecture and four hours practica. Materials fee required. Prerequisites: ECLG 647 and 648. (5 units)

650. Applied Career Counseling

Overview of career counseling, career education and application of career counseling and guidance to schools, educationally related agencies and special settings. Prerequisites: ECLG 531 and 619. (4 units)

651. Professional School Counselor

Theory and practical applications of comprehensive school counseling programs at the elementary, middle, and high school levels. Experience-based approach to program management and guidance curriculum development. (4 units)

654. Legal and Ethical Issues in Counseling and Guidance

Legal and ethical constraints and considerations in the school counseling profession. (4 units)

655. Multicultural Counseling

Theory of and practical applications of counseling skills to serve multiethnic school populations. Analysis of differing socioeconomic, racial, and social backgrounds of students. (4 units)

656. Counseling Theories and Techniques

Theories and techniques of counseling; application to educational settings; experiential orientation. Prerequisite: ECLG 531. (4 units)

657. Counseling Practicum

- A. Supervised practice in the application of counseling skills, theories and techniques. Includes 30 hours of practica. Prerequisites: ECLG 531; 632 or EREH 652 and ECLG 656. (4 units)
- B. Supervised practice in counseling in a laboratory setting. Includes 30 hours of practica. Graded credit/no credit. Prerequisite: ECLG 657A with a grade of "B" or better. (4 units)
- C. Supervised practicum in a non-school, educationally-related setting such as a community college to practice counseling theories, techniques and skills. (4 units)

658. Consulting with Parents and Staff

Theory and methods of consultation and theory with parents, teachers, and administrators and theory and methods of the supervision process. Prerequisite: ECLG 657B. (4 units)

659. Secondary School Career Counseling

Advanced applications of career counseling, guidance, and assessment techniques for secondary schools. Prerequisite: ECLG 650. (4 units)

660. Seminar in Child/Adolescent Psychopathology and Treatment

Interdisciplinary approach to understanding abnormal child development within the context of multicultural settings. Use of taxonomical approach including IDEA (Individuals with Disabilities Education Act) and DSMIV (Diagnostic Statistical Manual IV) and standard treatment protocol. Prerequisite: completion of introductory course in child development or equivalent. (4 units)

661. Administration of Community College Student Services

Theory and practical applications of program development for student matriculation, financial aid and related services. (4 units)

662. Community College Student Development

Issues in community college student development, including adult life span development, with emphasis on topics of gender, race and age. (4 units)

663. Career Development for Community College Students

Theory and practical skills in career/life development and planning for community college students, including integration of curriculum and career-related instruction. (4 units)

664. Community College Counseling Issues

Analysis of current trends and selected topics in community college counseling: matriculation, retention of underrepresented minorities, articulation with four-year institutions, and related student services. (4 units)

665. Seminar in Adult Leadership

Methods of composing, conducting and communicating with adult groups. Emphasis on techniques for developing interest and involvement; interpreting early education concepts to parents, paraprofessionals, staff, management and community agencies. (2 units)

666. Professional Community College Counselor

Theory and practical applications of community college counseling programs. Experience-based approach to program management and guidance curriculum development. (4 units)

667. Fieldwork in Community College Counseling

Field practice with direct student contact (minimum of 120 hours) in a community college setting, under supervision of qualified personnel. Prerequisites: ECLG 661, 662, 663 and 664. (4 units)

672. Leadership, Advocacy, and Preventive Education in Counseling

The importance and function of leadership, student advocacy, and the role of "change agent" by pupil personnel service providers. The planning, implementation and evaluation of school counseling and guidance programs that increase student learning and achievement. Prerequisite: ECLG 657B. (4 units)

678. Theory and Practice of Group Counseling

Theories and techniques of group counseling in educationally-related institutions. Experientially-based. Includes 30 hours of practica. Formerly ECLG 677. Prerequisites: ECLG 531; 632 or EREH 652; ECLG 656; and 657A or 657C. (4 units)

679. Counseling Fieldwork

Field practice with direct pupil contact (minimum 200 hours) in an educational setting under supervision of certificated personnel. Graded credit/no credit.

- A. Multicultural. Prerequisites: ECLG 655, 656 and 657B. (4 units)
- B. Elementary School. Prerequisites: ECLG 657B and 679A. (4 units)
- C. Middle School. Prerequisites: ECLG 657B and 679A. (4 units)
- D. High School. Prerequisites: ECLG 657B and 679A. (4 units)
- E. Educational Institution. Prerequisites: ECLG 657C, 678 and consent of instructor. (4 units)

686. Seminar in Counseling of Children and Parents

Study of theories and techniques in counseling with parents and children. Emphasis on methodology and application of counseling skills. Prerequisite: pupil personnel services credential. (4 units)

687. School Psychologists as Change Agents: Theory and Practice

Organizational models, systems analysis, powers and change theories and strategies as applied to educational institutions. Includes 20 hours of practica. Prerequisite: pupil personnel services credential. (4 units)

689. Seminar/Internship in School Psychology

Weekly seminar in the theory and practice of school psychology supervision, with emphasis on case presentation. Total of 1200 hours (in either paid or unpaid positions) in a supervised setting. Two hours lecture, plus internship hours. May be repeated for credit. Graded credit/no credit. Materials fee required. Prerequisites: ECLG 649, 660, and 687.

- A. (4 units)
- B. (4 units)
- C. (4 units)
- D. (4 units)

693. Special Topics in School Psychology

Selected topics in school psychology, such as professional issues, ethics and current practices, applicable State Education Codes and court decisions, use of community resources; in-service training theory and practicum. May be repeated for credit as topics change. Prerequisites: ECLG 649, 660 and 687. (4 units)

696. Special Topics in Counselor Education

Relevant issues in counselor education. May be repeated for credit as topics change. (2 units)

699. Advanced Seminar in Educational Counseling

Small group and individual tutorial to provide summative review, final competency check and exit interview in preparation for the written comprehensive examination. Students who do not pass the comprehensive examination will receive a grade of "no credit" and must re-enroll before taking the examination again. Formerly ECLG 998. Graded credit/no credit. (4 units)

CRIMINAL JUSTICE

Master of Arts in Criminal Justice

Department of Criminal Justice

Social and Behavioral Sciences Building, Room 209
880-5506

FACULTY: Gisela Bichler-Robertson, Frances Coles, John Conley, Larry Gaines (Chair), Brian Levin, Deborah Parsons, Pamela Schram, Dale Sechrest, Stephen Tibbetts, John Worrall

MASTER OF ARTS IN CRIMINAL JUSTICE

Requirements (45 units)

The Master of Arts in Criminal Justice is designed to serve the growing number of individuals in the criminal justice system who desire postbaccalaureate education, as well as those in more traditional public and private employment who may wish to acquire further education in criminal justice.

The degree program offers two options. One is a thesis option designed for students who intend to pursue graduate studies beyond the M.A. level and those students who have special research interests in the criminal justice system. The examination option is for those with administrative and management goals.

The program can serve a variety of student interests. It has been designed with a limited prerequisite requirement to enable students with baccalaureate degrees in related fields such as psychology, administration, anthropology, sociology or social sciences to enroll along with students with undergraduate degrees in criminal justice.

The program is intended for evening students primarily and, therefore, classes will be predominately scheduled between 4 and 10 p.m.

Admission to the M.A. Program

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

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in criminal justice, criminology, sociology, or in an allied field such as psychology, administration, or another social science, or recommendation for admission to the program by the Graduate Admissions Committee. Competence in the following prerequisite areas: criminological theory, law enforcement, institutional and community corrections, research methods and statistics is expected;
3. Completion of the graduate entrance writing requirement;
4. A cumulative undergraduate grade point average of at least 2.5 overall and 3.0 ("B") in the major;
5. Submission of any available GRE or MAT (Miller Analogies Test) scores, in the event the applicant feels that such scores would enhance their chances of admission. Submission of such scores is not mandatory;

6. Submission to the criminal justice program of three letters of recommendation from individuals who are familiar with the student's academic work and potential to complete the program successfully. Letters must come directly from the writer or be included in a placement file, and will be evaluated by criminal justice faculty members.

Students who meet the general requirements of the university for admission to postbaccalaureate study but do not meet the specific requirements for admission to classified status may be admitted to the program as conditionally classified graduate students. Students enrolling in that status should consult the criminal justice graduate coordinator upon admission to work out an appropriate program. With the aid of the coordinator, these students must petition for admission to classified status. The graduate committee will then consider the student's scholastic performance and other circumstances and either grant classified status, specify necessary preparatory studies, or recommend other courses of action.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Thesis Option: completed all required course work except thesis
or
Non-Thesis Option: completed all required course work except Comprehensive Examination;
3. Completed all course work taken before advancement to candidacy with a minimum grade point average of 3.0 ("B") and a minimum grade of "B" in all required courses. Any grade lower than "B" in a required course will necessitate that the course be repeated and passed with a grade of "B" or better;
4. Completed all course work with no more than one grade lower than "B-" (2.7). If a second such grade is earned, the student will be dismissed from the program, but may petition the graduate admission committee for readmission. After reviewing the petition, the committee may allow readmission under such conditions as it deems appropriate. A third grade lower than "B-" will result in permanent dismissal from the program with no recourse to petition;
5. For the thesis option: made arrangements for three faculty members, in consultation with the criminal justice graduate coordinator, to serve as the student's graduate advisory committee, with one member designated to chair the committee;
6. Submitted a formal program of graduate studies to the criminal justice graduate coordinator as approved by the graduate committee. This should be done no later than the end of the second quarter of graduate work;
7. Petitioned the graduate committee, during the quarter in which all course work is to be completed, for formal advancement.

The graduate committee will then consider the student's scholastic performance and other circumstances and either grant advancement to candidacy, specify necessary preparatory studies, or recommend other courses of action.

Requirements for Graduation

1. A minimum of 45 units of acceptable graduate level work, with at least 32 quarter units completed in residence at this university;
2. Completion of course work and an acceptable thesis and final oral defense,
or
Completion of course work and registration in and completion of the comprehensive examination with a grade of credit (Plan II below);
3. Any additional general requirements not cited above and listed on [Page 364](#).

Degree Requirements (45 units)

Plan I (Thesis Option)

1. CJUS 604. Advanced Techniques of Basic and Applied Research in Criminal Justice (4)
2. CJUS 605. Proseminar in Criminal Justice (4)
3. CJUS 606. Statistical Analysis in Criminal Justice (4)
4. CJUS 607. Advanced Criminological Theory (4)
5. CJUS 608. Crime, Criminals and Victims (4)
6. CJUS 631. Seminar in Corrections (4)
7. CJUS 632. Seminar in Policing (4)
8. Eight units of electives to be chosen in consultation with an advisor from:
 - CJUS 504. Procedure and Evidence (4)
 - CJUS 550. Criminal Justice Information Systems (4)
 - CJUS 580. Juvenile Justice System (4)
 - CJUS 590. Topics in Criminal Justice (may be repeated as topics change) (4)
 - CJUS 595. Independent Study (4)
 - CJUS 629. Minorities in the Criminal Justice System (4)
 - CJUS 630. Legal Issues in Criminal Justice (4)
 - CJUS 650. Directed Area Studies in Criminal Justice (1-4)
 - PA 557. Public Sector Labor Relations (4)
 - PA 611. Public Administration Theory and Practice (4)
 - PA 662. Human Resources Management in the Public Sector (4)
 - PA 663. Public Budgeting and Finance (4)
 - PA 672. Administrative Regulation (4)
 - PA 680. Public Policy Analysis (4)
 - SW 614. Child Abuse and Neglect (4)
 - SW 615. Domestic Violence (4)
 - SW 616. Human Sexuality and Social Work Practice (4)
 - SW 620. Social Work with Alcohol and Drug Abuse (4)
 - SW 622. Crisis Intervention and Emergency Treatment (4)

Other courses may be allowed with consent of department.

9. CJUS 699A. Thesis (3)
10. CJUS 699B. Thesis (6)

Plan II (Comprehensive Exam Option)

1. CJUS 604. Advanced Techniques of Basic and Applied Research in Criminal Justice (4)

2. CJUS 605. Proseminar in Criminal Justice (4)
3. CJUS 606. Statistical Analysis in Criminal Justice (4)
4. CJUS 607. Advanced Criminological Theory (4)
5. CJUS 608. Crime, Criminals and Victims (4)
6. CJUS 631. Seminar in Corrections (4)
7. CJUS 632. Seminar in Policing (4)
8. Seventeen units of electives to be chosen in consultation with an advisor from:
 - CJUS 504. Procedure and Evidence (4)
 - CJUS 550. Criminal Justice Information Systems (4)
 - CJUS 580. Juvenile Justice System (4)
 - CJUS 590. Topics in Criminal Justice (may be repeated as topics change) (4)
 - CJUS 595. Independent Study (4)
 - CJUS 629. Minorities in the Criminal Justice System (4)
 - CJUS 630. Criminal Justice Administration and the Law (4)
 - CJUS 650. Directed Area Studies in Criminal Justice (1-4)
 - PA 557. Public Sector Labor Relations (4)
 - PA 611. Public Administration Theory and Practice (4)
 - PA 662. Human Resource Management in the Public Sector (4)
 - PA 663. Public Budgeting and Finance (4)
 - PA 672. Administrative Regulation (4)
 - PA 680. Public Policy Analysis (4)
 - SW 614. Child Abuse and Neglect (4)
 - SW 616. Human Sexuality in Social Work Practice (4)
 - SW 620. Social Work with Alcohol and Drug Abuse (4)
 - SW 622. Crisis Intervention and Emergency Treatment (4)

Other courses may be allowed with consent of department.

9. Completion of Comprehensive Examination with a grade of credit ("CR").

COURSE OFFERINGS IN CRIMINAL JUSTICE (CJUS)

Upper Division

504. Procedure and Evidence

Examination of the rules governing evidence and criminal procedure. Focus on the impact of statutes and case law on criminal justice system practitioners. Included are the 4th, 5th, 6th, 8th and 14th Amendments as they affect the accused, the convicted, and the employees of the criminal justice system. Formerly CJUS 304. Prerequisite: CJUS 102 and consent of instructor. (4 units)

550. Criminal Justice Information Systems

Analysis of existing criminal justice information systems and computer applications. Develop user applications to improve operations within and between criminal justice agencies. Prerequisites: CJUS 311 and 312 or equivalent. (4 units)

575. Internship in Criminal Justice

Supervised work and study in private or public organizations. Only four units may be applied to the criminal justice major. Open only to criminal justice majors. Graded credit/no credit. Prerequisite: consent of internship coordinator. (4 units)

580. Juvenile Justice System

History, development and theory of the juvenile justice system. Formerly CJUS 353 and 380. (4 units)

590. Topics in Criminal Justice

Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

595. Independent Study

Indepth research into special topics concerned with the criminal justice system utilizing readings, library and/or field research. A total of four units may be applied toward the criminal justice major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and department chair's approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

597. Senior Honors Project

Original research in an area of criminal justice studies, culminating in a major research report receiving approval of the criminal justice faculty. Enrollment limited to students whose formal application for departmental honors is approved. (4 units)

598. Integrative Studies in Criminal Justice

Overview and integration of major issues in criminal justice. Cannot be counted toward the M.A. in Criminal Justice. Limited to senior and graduate students. (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

604. Advanced Techniques of Basic and Applied Research in Criminal Justice

The application of scientific methods used as a means for inquiry, description and analysis of crime and the behavior of the criminal justice system. Prerequisite: consent of instructor. (4 units)

605. Proseminar in Criminal Justice

Overview of contemporary research and literature across the criminal justice field. Topics will include current writings and research on crime, police, courts and corrections. (4 units)

606. Statistical Analysis in Criminal Justice

Quantitative analytical techniques for criminal justice data. Emphasis will be placed on using and interpreting nonparametric and multivariate statistics. Prerequisite: introductory statistics course. (4 units)

607. Advanced Criminological Theory

Analysis of social, behavioral and biochemical theories of crime, delinquency and victimization as they apply to criminal justice policy decisions. Examination of pertinent theoretical research and critique of theory formation. (4 units)

608. Crime, Criminals and Victims

Relationships between general crime trends and emerging patterns of criminal activity, and the composition of the offender and victim populations. (4 units)

629. Minorities in the Criminal Justice System

Roles and treatment of minority populations within the criminal justice system, including historical background, personal and offender issues, current problems, needs and future directions. (4 units)

630. Legal Issues in Criminal Justice

Tort actions against representatives of criminal justice agencies based on case law in the areas of general civil liability, prisoner rights, and administrative and management practices. (4 units)

631. Seminar in Corrections

Exploration of topics in correctional administration including public opinion, civil rights, court intervention, system reform and the management of correctional personnel. (4 units)

632. Seminar in Policing

Exploration of issues in police administration including public opinion, civil rights, court interventions, system reform and the management of police personnel. (4 units)

650. Directed Area Studies in Criminal Justice

Advanced study in a specific area selected by the student with the approval of the student's committee. Prerequisite: consent of instructor. (Credit to be arranged: 1 to 4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis

Preparation of the thesis for the Master of Arts in Criminal Justice under the direction of a faculty member from the student's committee. CJUS 699B must be completed before credit will be awarded for 699A. Graded credit/no credit. Prerequisite: advancement to candidacy.

A. (3 units)

B. (6 units)

ECONOMICS

Department of Economics

Social and Behavioral Sciences Building, Room 327D
880-5511

The following courses are offered in support of various graduate degree programs offered at this university.

COURSE OFFERINGS IN ECONOMICS (ECON)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Proseminar in Economics

Survey of the concepts and ideas that economists study, how they approach the study of economic phenomena, and what methods they employ in their analysis. The seminar will include discussion of the relationships of the discipline to other social science disciplines and the unique contributions economics has made to knowledge in general and in the social sciences. Prerequisite: consent of instructor. (4 units)

630. International Economic Issues

Contemporary international economic issues of relevance in planning and implementing policy. (4 units)

EDUCATION

Master of Arts in Education

with options in:

- Bilingual/Cross-Cultural
- Career and Technical Education
- Curriculum and Instruction
- Environmental Education
- Health Education
- Instructional Technology
- Kinesiology
- Language, Literacy and Culture (Primary Language)
- Middle Grades
- Reading/Language Arts
- Secondary Education with English, History, or Spanish Specializations
- Special Education
- Teaching English to Speakers of Other Languages

Specialist and Services Credentials

- Adapted Physical Education Specialist
- Administrative Services (Preliminary)
- Administrative Services Preliminary (Internship)
- Administrative Services (Professional)
- Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities
- Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities
- Preliminary Level I Education Specialist Credential: Moderate/Severe Disabilities
- Professional Clear Level II Education Specialist Credential: Moderate/Severe Disabilities
- Internship Education Specialist Credential: Mild/Moderate Disabilities
- Pupil Personnel Services: School Counseling
- Pupil Personnel Services: School Psychology
- Pupil Personnel Services: Social Work
- Reading/Language Arts Specialist
- School Nurse
- Supervision and Coordination of Designated Subjects Programs

Certificate Programs

- Community College Counseling
- Crosscultural, Language and Academic Development (CLAD)
- Education of the Gifted and Talented
- Educational Computing
- Educational Professional Services
- Educational Technology
- Environmental Education
- Middle Grade Education
- Reading/Language Arts
- Rehabilitation Counseling
- Remedial Education in the Elementary School
- School Business Management
- Study Strategy Instruction for Secondary Schools

Specialist Certificate Program

- Resource Specialist in Special Education

Also offered through the College of Education are the Master of Arts in Educational Administration (see [Page 456](#)); the Master of Arts in Rehabilitation Counseling (see [Page 502](#)); the Master of Science in Counseling and Guidance (see [Page 400](#)); and the M.A. in Interdisciplinary Studies, Integrative Studies Option in Education (see [Page 475](#)). Information on fifth-year, clear credentials and Basic Teaching Credentials (Single Subject, Multiple Subjects and Designated Subjects) can be found on [Page 154](#).

College of Education

Faculty Office Building, Room 182
880-5600

Division of Teacher Education

Credentials Office (C.A.S.E.)

Chaparral Hall, Room 123, 880-5609

Masters Program Office and Advanced Credentials

University Hall, Room 171, 880-5293

Multiple Subject

Faculty Office Building, Room 125, 880-5650

Single Subject

Faculty Office Building, Room 125, 880-5650

Student Teaching Placement Office

Faculty Office Building, Room 130, 880-5636

Department of Educational Leadership and Curriculum

University Hall, Room 401.19, 880-7404

FACULTY: Susan Daniels, Cheryl Fischer (Chair), James Green, Juan Gutierrez, Irv Howard, Ellen Kronowitz, Ken Lane, Angela Louque, Ruth Norton, Deborah Stine, Al Waner, Al Wolf

MASTERS: Curriculum and Instruction, Middle Grades Education, Educational Administration

CREDENTIALS: Single Subject, Multiple Subject

Department of Educational Psychology and Counseling

University Hall, Room 401.24, 880-5606

FACULTY: Richard Ashcroft, Susan Brotherton, Margaret Cooney, Esteban Diaz, Louis Downs, Tom Gehring, Young Suk Hwang, Todd Jennings, Camille Mayers, Ruth Sandlin (Chair), Donna Schnorr, Sue Spitzer, Dwight Sweeney, Joseph Turpin, Michael Verdi, Dudley Wiest

MASTERS: Counseling and Guidance, Rehabilitation Counseling

Department of Language, Literacy and Culture

Faculty Office Building, Room 138, 880-7405

FACULTY: Maria Balderrama, Sam Crowell, Lynne Diaz-Rico, Barbara Flores, Rosalie Giacchino-Baker, Jose Hernandez, Sherry Howie, Ken Johns, Robert London, Joana Marasco, Corinne Martinez, Patrick Mullen, Enrique Murillo, Judy Rymer, Mary Jo Skillings (Chair), Alayne Sullivan, Gail Thompson, Nena Torrez, Laura Young

MASTERS: Bilingual/Cross-Cultural; Language, Literacy and Culture (Primary Language); Reading/Language Arts; Teaching English to Speakers of Other Languages

Department of Science, Mathematics and Technology Education

Chaparral Hall, Room 107, 880-5290

FACULTY: Bonnie Brunkhorst, Herbert Brunkhorst (Chair), Joseph Jesunathadas, Amey Leh, James Mason, Ron Pendleton, Iris Riggs, Rowena Santiago, Joseph Scarcella, Catherine Spencer, Darleen Stoner, Jan Woerner

MASTERS: Career and Technical Education, Environmental Education, Instructional Technology

B.S./B.V.E.: Vocational Education

Department of Special Education

University Hall, Room 403, 880-7406

FACULTY: Carolyn Eggleston, Barbara Larrivee, Marjorie McCabe, Jeff McNair (Chair), Gary Negin, Ann Selmi, Stanley Swartz

MASTERS: Special Education

MASTER OF ARTS IN EDUCATION

The Master of Arts program in curriculum and instruction is designed for both elementary and secondary teachers. The program provides opportunities for teachers to gain expertise and knowledge in subject matter content and pedagogy, to gain expertise and knowledge in order to prepare for National Board Certification in the state of California, or to gain expertise and knowledge in the areas of mentoring and supervision of pre-interns, interns and beginning teachers in public schools.

The M.A. in education with an option in bilingual/cross-cultural education is designed to give advanced training to personnel involved in bilingual programs in grades K-12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, postsecondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

The M.A. in education with an option in environmental education is designed to prepare individuals to teach environmental education effectively in indoor and outdoor settings and to all grade/age levels and enables graduates to assume leadership in environmental education in schools, nature centers, and other interpretative situations. Admission to the program requires teaching experience, but not a teaching credential.

The M.A. in education with an option in reading/language arts meets the needs of the candidate who is interested in increasing skills in the effective teaching of reading/language arts. The program is competency based and places emphasis on the models and methods that enhance the strategic processing of language arts.

The M.A. in education with an option in special education will provide advanced preparation for teaching the learning handicapped, and will provide training for those persons interested in administrative positions or leadership positions in special education.

The M.A. in education with an option in instructional technology is designed to meet the needs of technology professionals in schools and other education related settings, as well as business settings. The program has two emphases: video production and computer application, both planned as advanced programs for the practitioner.

The M.A. in education with an option in teaching English to speakers of other languages prepares educators to meet the needs of English language learners in K-12 classrooms in the United States and abroad. The teaching of English around the world is one of the fastest-growing international professions and offers worldwide English teaching opportunities to qualified graduates. Courses in ESL teaching methods and supervised fieldwork opportunities provide a broad overview of theories of language acquisition and social cultural influences on language learning, and strengthen the mastery of classroom techniques.

The M.A. in Interdisciplinary Studies with an Integrative Studies Option is an innovative program for creative educators. It is designed for educators interested in entering a dialogue with a cohort of master's students and a team of professors to explore how to develop and implement innovative and meaningful curriculum. See [Page 475](#) for a description of the program.

M.A. IN EDUCATION (BILINGUAL/CROSS-CULTURAL OPTION)

Requirements (48 units)

Admission to the Program

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

1. A valid teaching credential, teaching experience, or departmental approval;
2. A grade point average of at least 2.5 in the last 90 quarter units and a 3.0 ("B") in all bilingual/crosscultural courses;
3. Demonstrated proficiency in Spanish;
4. Completed the graduate entrance writing requirement.

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

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, with a grade point average of 3.0 ("B"), 16 quarter units of course work, at least 12 of which must

have been on this campus and approved by an advisor in the College of Education;

Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.

3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 units completed in residence at this university;
2. A minimum of 23 quarter units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements, and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of EDUC 600. Master's Degree Project, which also satisfies the graduation writing requirement;
5. A minimum of 26 units in courses numbered 600 or above included as part of the approved program;
6. Any additional general requirements not cited above and listed on [Page 364](#).

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Students must register for EDUC 600 and these units must be part of the required 48 units.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (48 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)
4. EELB 606. Theory and Practice in Teaching Bilingual Students (4)
5. EELB 608. Research in Bilingual/Cross-Cultural Education (4)

6. EELB 612. Social and Cultural Foundations for Language Learning (4)
7. EESL 613. Cognition and Language Acquisition (4)
8. Four units chosen from:
 - EELB 611. Spanish Children's Literature for the Bilingual Classroom (4)
 - EELB 625. Curriculum and Materials for Bilingual and ESL Classrooms (4)
 - EELB 626. Literacy and Bilingual Development (4)
9. Four units chosen from:
 - EELB 627. Innovations in Bilingual Education (4)
 - EELB 628. Bilingualism and the Social Construction of Mind (4)
10. Eight units of electives chosen from:
 - ECLG 655. Multicultural Counseling (4)
 - EESL 607. Theory and Practice in TESOL (4)
 - EELB 664. Thesis/Project Design in Curriculum and Instruction (2)
 - HIST 565. Ethnic Minorities in American History (4)
 - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)

Other courses selected in consultation with program advisor.
11. Culminating Project (4)
 - EDUC 600. Master's Degree Project (4)

M.A. IN EDUCATION (CAREER AND TECHNICAL EDUCATION OPTION)

Requirements (45 units)

Admission to the Program

Applicants must possess a baccalaureate degree from an accredited college or university and a valid teaching credential. Prior to being admitted to the Master of Arts program in the College of Education, applicants must be admitted to the university as an unclassified graduate student. Application for admission to the university should be made at least three months prior to the date the applicant would like to begin taking courses.

Advancement to Candidacy

In order to be formally advanced to candidacy, applicants must have:

1. Been accepted to the College of Education as a classified graduate student;
2. Completed the graduate entrance writing requirement;
3. Filed an approved graduate program form for completion of the degree.

Applicants are encouraged to take EVOC 637 as soon as possible and to see a Master of Arts advisor before signing up for any courses.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable work, with 32 completed in residence at this university;
2. A minimum of 22 units of credit taken after a student has been advanced to candidacy for the degree;

3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Registration and successful completion of a master's degree project (EDUC 600) or comprehensive examination (EVOG 999);
5. The graduation writing requirement is met upon successful completion of the master's degree project or comprehensive examination;
6. Any additional general requirements not cited above and listed on [Page 364](#).

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor. The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (45 units)

1. EVOG 519. Computer Applications for Vocational Education Teachers (4)
2. EDUC 603. Effective Communication in Education (4)
3. EDUC 663. Introduction to Educational Research (4)
4. EDUC 695. Foundations of Education (4)
5. EVOG 637. Foundations of Vocational Education (4)
6. EVOG 638. Critical Issues for the Professional Vocational Educator (4)
7. EVOG 639. Professional Competencies in Vocational Education (4)
8. Successful completion of Track A or Track B:
 - Track A
 1. EDUC 600. Master's Degree Project (4)
 2. EDUC 601A. Advanced Independent Study Topics in Education (1)
 - Track B
 1. EVOG 999. Comprehensive Examination (0)
9. Twelve units Track A or 17 units Track B from one of the following emphasis areas:

Counseling

1. ECLG 650. Applied Career Counseling (4)
2. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Certificate in Rehabilitation Counseling.

Curriculum Development

1. Four units chosen from:
 - EELB 662. School Curriculum (4)
 - ESEC 662. School Curriculum (4)

2. Remaining units of electives approved by the candidate's advisor.

Educational Computing

1. ETEC 546. Computer Based Technology in Education (4)
2. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Certificate in Educational Computing.

Educational Technology

1. ETEC 544. Construction of Instructional Materials (4)
2. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Certificate in Educational Technology.

School Administration

1. EADM 601. Educational Leadership (4)
2. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Administrative Services Preliminary credential.

Special Education

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
2. Remaining units of electives approved by the candidate's advisor.

Supervision and Coordination

1. EVOG 508. Organization and Structure of Designated Subjects Programs (4)
2. EVOG 509. Personnel Management in Designated Subjects Programs (4)
3. EVOG 510. Field Work in Coordination and Supervision of Designated Subjects Programs (4)
4. Remaining units of electives approved by the candidate's advisor. This course work may also be applied (where appropriate) toward the Supervision and Coordination of Designated Subjects Program credential.

M.A. IN EDUCATION (CURRICULUM AND INSTRUCTION OPTION)

Requirements (46 units)

Admission to the Program

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

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

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

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;

Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.

3. Satisfactorily completed EDUC 603 and 695;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 46 quarter units of acceptable graduate-level work, with a minimum of 33 completed in residence at this university;
2. A minimum of 23 quarter units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of one of the following:

Track A. Master's Project (6 units)

- EDUC 600. Master's Degree Project (4)
and one of the following two courses:
EELB 664. Thesis/Project Design in Curriculum and Instruction (2)
ESEC 664. Thesis/Project Design in Curriculum and Instruction (2)

The purpose of the thesis/project is for the student to communicate ideas gained in research, experimentation and creative endeavors.

A satisfactory thesis/project is one which reflects original works and shows a level of competence appropriate for a master's degree. A thesis/project can be reported in the form of a paper and/or through other media. Students who plan to go on to doctoral studies are encouraged to discuss the thesis/project option with their advisor.

All theses/projects will be planned in consultation with the student's advisor. The thesis/project proposal and the thesis/project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format.

Students who choose the thesis/project option must take eight units in the electives category.

Track B. Comprehensive Examination (2 units)

Students must take one of the following two courses:

- EELB 633. Comprehensive Evaluation in Curriculum and Instruction (2)
ESEC 633. Comprehensive Evaluation in Curriculum and Instruction (2)

Students must take one of the following two courses:

- EELB 999. Comprehensive Examination (0)
ESEC 999. Comprehensive Examination (0)

The written comprehensive examination is designed to test the student's knowledge in the field of curriculum and instruction. The examination will be given in the fall and spring quarters. Students may take the examination twice. Students who choose the comprehensive option must enroll in 12 units in the electives category with approval of an advisor;

5. The graduation writing requirement is met upon successful completion of 4A or 4B above;
6. A minimum of 26 units in courses numbered 600 or above included as part of the approved graduate program;
7. Any additional general requirements not cited above and listed on [Page 364](#).

The program may not include more than 12 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (46 units)

Core courses (12 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)

Curriculum and Instruction Core (12 units)

1. Four units chosen from:
EELB 624. Advanced Teaching Methodology (4)
ESEC 624. Advanced Teaching Methodology (4)
2. Four units chosen from:
EELB 644. Educational Assessment in K-12 Schools (4)
ESEC 644. Educational Assessment in K-12 Schools (4)
3. Four units chosen from:
EELB 662. School Curriculum (4)
ESEC 662. School Curriculum (4)

Emphasis Area (8 units)

1. Students must choose one of the following areas:

Curriculum and Instruction

Designed for current practitioners to gain expertise and knowledge in their content areas. Students choose eight units from one of the following categories:

1. Elementary: Eight units chosen from the following:
EELB 620. Advanced Educational Psychology (4)
EELB 630. Children's Literature in the Classroom (4)

- EELB 632. Mathematics Clinic (4)
- EELB 634. Advanced Social Studies Methods (4)
- EELB 636. Advanced Science Methods (4)

2. Secondary: Eight units of upper division or graduate-level electives, outside the College of Education, normally in the candidate's teaching area(s), selected with the approval of an advisor.

National Board Certification (8 units)

Designed for current practitioners to gain expertise and knowledge in preparation for National Board Certification in the state of California.

1. Four units chosen from:
 - EELB 650A. Professional Teacher Development Seminar A (4)
 - ESEC 650A. Professional Teacher Development Seminar A (4)
2. Four units chosen from:
 - EELB 650B. Professional Teacher Development Seminar B (4)
 - ESEC 650B. Professional Teacher Development Seminar B (4)

Mentoring and Supervision (8 units)

Designed for current practitioners to gain expertise and knowledge in the areas of supervision of pre-interns, interns and beginning teachers in the public schools.

1. Four units chosen from:
 - EELB 652. Service Learning in Public Schools (4)
 - ESEC 652. Service Learning in Public Schools (4)
2. Four units chosen from:
 - EELB 653. Supervision and Mentoring of Classroom Teachers (4)
 - ESEC 653. Supervision and Mentoring of Classroom Teachers (4)

Electives (Track A: 8 units/Track B: 12 units)

1. Students may select from the following list or consult with their advisor for additional elective possibilities:
 - EADM 619. Legal Aspects of Education (4)
 - EELB 441. Mathematics Curriculum and Methods in the Elementary School (4)
 - EELB 443. Science Curriculum and Methods in the Elementary School (4)
 - EELB 445. Reading/Language Arts Curriculum and Methods in the Elementary School (4)
 - EELB 446. Reading/Language Arts (Primary Language) Curriculum and Methods in the Elementary School (4)
 - EELB 447. Social Studies/Humanities Curriculum and Methods in the Elementary School (4)
 - EELB 448. Social Studies/Humanities (Primary Language) Curriculum and Methods in the Elementary School (4)
 - EELB 449. Literacy and Second Language Acquisition in the Elementary School (4)
 - EELB 555. Internship Seminar III: Literacy and Second Language Acquisition in the Elementary School (4)

- EELB 697. Implementing Educational Change (4)
- ESEC 443. Adolescent Development and Educational Contexts (4)
- ESEC 510. Teaching English as a Second Language in Secondary Schools (4)
- ESEC 515. Issues and Trends in Secondary Education (2) for a total of (4)
- ESEC 602. Special Topics in Secondary Education (2)
- ESEC 617. Middle School Curriculum and Instruction (4)
- ESEC 697. Implementing Educational Change (4)
- ETEC 546. Computer Based Technology in Education (4)

May choose only one of the following courses or an appropriate single subject matter course chosen in consultation with an advisor:

- ART 499. Art Education: Methods and Materials (4)
- ESEC 441. Curriculum and Instruction II (4)
- MATH 499. Teaching Mathematics (4)
- MUS 410. Music in the Elementary Schools (4)
- MUS 411. Music in the Secondary Schools (4)

Culminating Experience (Track A: 6 units, Track B: 2 units)

1. Students must take one of the following two tracks:
 - Track A: Master's Thesis/Project Option (6 units)
 1. EDUC 600. Master's Degree Project (4)
 2. Two units chosen from:
 - EELB 664. Thesis/Project Design in Curriculum and Instruction (2)
 - ESEC 664. Thesis/Project Design in Curriculum and Instruction (2)
 - Track B: Comprehensive Examination Option (2 units)
 1. Two units chosen from:
 - EELB 633. Comprehensive Evaluation in Curriculum and Instruction (2)
 - ESEC 633. Comprehensive Evaluation in Curriculum and Instruction (2)
 2. One of the following:
 - EELB 999. Comprehensive Examination (0)
 - ESEC 999. Comprehensive Examination (0)

M.A. IN EDUCATION (ENVIRONMENTAL EDUCATION OPTION)

Requirements (48 units)

Admission to the Program

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

1. A valid teaching credential;
2. Multiple subject science methods course work or appropriate single subject methods course work;
3. Completion of the graduate entrance writing requirement;
4. Either A or B as follows:
 - A. Academic preparation as demonstrated by completion of a lower-division course in biological science with

laboratory, a lower-division course in physical science with laboratory, and one upper-division course from each of the following three categories:

1. Life Sciences:
 - BIOL 319. Local Flora
 - BIOL 321. Evolution
 - BIOL 370. Symbiosis
 - BIOL 450. Ecology
 or other approved course
2. Environmental Sciences:
 - GEOG 350. Conservation and Natural Resources
 - GEOG 360. Weather and Climate
 - GEOG 460. Biogeography
 - GEOG 470. Hydrology and Water Resources
 - HSCI 352. Environmental Health I
 - HSCI 355. Health, Consumer and Environmental Law
 or other approved course
3. Natural Sciences:
 - GEOL 310. Regional Field Geology
 - GEOL 312. Geology of California
 - NSCI 310. The Environment and Human Survival
 - NSCI 314. Life in the Cosmos
 - NSCI 320. Energy
 - NSCI 351. Health and Human Ecology
 - NSCI 499. Methods and Materials in the Teaching of Natural Sciences Subjects: Teaching Biology
 - NSCI 499. Methods and Materials in the Teaching of Natural Sciences Subjects: Teaching Chemistry
 - NSCI 499. Methods and Materials in the Teaching of Natural Sciences Subjects: Teaching Physics

B. An undergraduate major in science;

5. In lieu of meeting all or part of requirements 1, 2, and 4 for admission to classified graduate status, applicant may apply to the environmental education option committee. Applicant's previous course of study and/or extensive work experiences may be judged by the committee as satisfactory preparation for graduate study in environmental education.

Advancement to Candidacy

In order to be formally advanced to candidacy a student must have:

1. Achieved classified standing;
2. Completed, with a grade point average of 3.0 ("B"), 16 quarter units of course work, at least 12 of which must have been on this campus and approved by an advisor in the College of Education;
 - Note:** Between the time of completing 15 and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with advisors, one from the College of Education and one

from an appropriate related subject area, and approved by the Dean of the College of Education and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable work, with 34 completed in residence at this university;
2. A minimum of 23 units taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grade of "C" (2.0) or better in all courses in the program;
4. Successful completion of the following:
 - EDUC 603. Effective Communication in Education
 - EDUC 663. Introduction to Educational Research
 - EDUC 695. Foundations of Education
5. The graduation writing requirement is met upon successful completion of the Master's Degree Project.
6. Successful completion of EDUC 600. Master's Degree Project.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available in the M.A. Handbook available in the Coyote Bookstore.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation, and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (48 units)

1. EDUC 600. Master's Degree Project (4)
2. EDUC 603. Effective Communication in Education (4)
3. EDUC 663. Introduction to Educational Research (4)
4. EDUC 695. Foundations of Education (4)
5. EENV 635. Environmental Education in the Curriculum (4)
6. EENV 642. Developing the Curriculum Through Outdoor Education (4)
7. EENV 643. Community Resources for Environmental Education (4)
8. One of the following:
 - EENV 670A. Topics in Environmental Education: Current Issues (2)
 - EENV 670B. Topics in Environmental Education: Readings in Environmental Education (2)
 - EENV 670C. Topics in Environmental Education: Outdoor Studies (2)
 - EENV 670D. Topics in Environmental Education: Laboratory Science Applications (2)
 - EENV 670E. Topics in Environmental Education: Language Arts Applications (2)

- EENV 670F. Topics in Environmental Education: Social Studies Applications (2)
- EENV 670G. Topics in Environmental Education: Technology Applications (2)
- EENV 670H. Topics in Environmental Education: Arts Applications (2)
- EENV 670J. Topics in Environmental Education: Environmental Ethics (2)
- EENV 670K. Topics in Environmental Education: Selected Topics (2)
- EENV 670L. Topics in Environmental Education: Nature Study Applications (2)
- EENV 670M. Topics in Environmental Education: Plant Study Applications (2)
- EENV 670N. Topics in Environmental Education: Animal Study Applications (2)
- EENV 670P. Topics in Environmental Education: Marine Science Applications (2)
9. EENV 679. Fieldwork: Environmental Education (4)
10. Fourteen units of electives, ten units of which must be taken outside the College of Education and which must include courses from each of the following three groups:

Group A

(Requirement cannot be satisfied with units/courses previously taken to satisfy admission requirements.)

- BIOL 319. Local Flora (5)
- BIOL 321. Evolution (4)
- BIOL 370. Symbiosis (4)
- BIOL 450. Ecology (5)
- GEOL 310. Intermediate Field Studies (2)
- GEOL 312. Geology of California (4)
- HSCI 352. Environmental Health I (4)
- HSCI 451. Principles of Epidemiology (4)
- or others upon consent of advisor.

Group B

(Requirement cannot be satisfied with units/courses previously taken to satisfy admission requirements.)

- GEOG 350. Conservation and Natural Resources (4)
- GEOG 360. Weather and Climate (4)
- GEOG 415. Urban Planning and Land Development (4)
- GEOG 460. Biogeography (4)
- GEOG 470. Hydrology and Water Resources (4)
- HSCI 355. Health, Consumer and Environmental Law (4)
- or others upon consent of advisor.

Group C

(Requirement cannot be satisfied with units/courses previously taken to satisfy admission requirements.)

- EENV 679. Fieldwork: Environmental Education (4)
- PHIL 350. Ethics (4)

One of the following:

- EELB 636. Advanced Science Methods (4)
- NSCI 499. Methods and Materials in the Teaching of Natural Sciences Subjects: Teaching Biology (4)
- NSCI 499. Methods and Materials in the Teaching of Natural Sciences Subjects: Teaching Chemistry (4)

- NSCI 499. Methods and Materials in the Teaching of Natural Sciences Subjects: Teaching Physics (4)

In addition to the units and topic taken as a required course:

- EENV 670A. Topics in Environmental Education: Current Issues (2)
- EENV 670B. Topics in Environmental Education: Readings in Environmental Education (2)
- EENV 670C. Topics in Environmental Education: Outdoor Studies (2)
- EENV 670D. Topics in Environmental Education: Laboratory Science Applications (2)
- EENV 670E. Topics in Environmental Education: Language Arts Applications (2)
- EENV 670F. Topics in Environmental Education: Social Studies Applications (2)
- EENV 670G. Topics in Environmental Education: Technology Applications (2)
- EENV 670H. Topics in Environmental Education: Arts Applications (2)
- EENV 670J. Topics in Environmental Education: Environmental Ethics (2)
- EENV 670K. Topics in Environmental Education: Selected Topics (2)
- EENV 670L. Topics in Environmental Education: Nature Study Applications (2)
- EENV 670M. Topics in Environmental Education: Plant Study Applications (2)
- EENV 670N. Topics in Environmental Education: Animal Study Applications (2)
- EENV 670P. Topics in Environmental Education: Marine Science Applications (2)

M.A. IN EDUCATION (HEALTH EDUCATION OPTION)

Requirements (48 units)

Admission to the Program

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

1. A valid teaching credential, teaching experience or related experience;
2. An undergraduate major in health science (school or community health education concentration) or related discipline;
3. Completion of HSCI 470 and 471 with a grade of "B" or better;
4. Completion of the graduate entrance writing requirement;
5. Three letters of recommendation, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the College of Education and the Department of Health Science and Human Ecology. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 16 quarter units of acceptable coursework at this university, with the approval of the advisors and with a minimum grade point average of 3.0 ("B"). Courses completed must include HSCI 699A;
Note: Between the time of completing 16 units and 24 units of applicable course work the student is required to apply for advancement to candidacy.
3. Satisfactorily completed EDUC 663 and 695;
4. Secured the approval of candidacy from the College of Education and the Department of Health Science and Human Ecology;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with advisors in the College of Education and the Department of Health Science and Human Ecology, and approved by the college, the department and the Dean of Graduate Studies.

Each student will have an advisor from the College of Education and an advisor from the Department of Health Science and Human Ecology. Dual signatures are necessary for registration for the initial quarter in the program.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, with 33 completed in residence at this university;
2. At least 24 units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Satisfactory completion of degree requirements;
5. Successful completion of a thesis.

The thesis represents independent graduate research conducted under the guidance of an advisor from the Department of Health Science and Human Ecology. The purpose of the thesis is for the student to demonstrate competency in the planning, implementation and analysis of applied research in health education as it relates to the student's area of interest. The thesis proposal and the thesis must be approved by the student's advisor in the Department of Health Science and Human Ecology and one other professor in the College of Education and submitted in an approved format. Further information is available from the Office of Graduate Studies regarding an approved format for the thesis proposal and thesis.

The program may not include more than 13 quarter units in extension and transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (48 units)

Education

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)
4. ESEC 441. Secondary School Curriculum and Instruction II (4)

Health Science

1. HSCI 560. Individual and Small Group Interventions in Health Promotion (4)
2. HSCI 604. Theory and Practice of Interventions (4)
3. HSCI 606. Advanced Program Evaluation (4)
4. HSCI 640. Health Education Program Administration (4)

Electives

1. Eight units of upper-division or graduate education, health science or other electives in consultation with the departmental advisor.

Culminating Experience

1. HSCI 699A. Thesis (4)
2. HSCI 699B. Thesis (4)

M.A. IN EDUCATION (INSTRUCTIONAL TECHNOLOGY OPTION)

Requirements (48 units)

Admission to the Program

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

1. Teaching or appropriate work experience;
2. A cumulative grade point average of 3.0 ("B") in all upper-division courses;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, from individuals familiar with the applicant's work history or educational background;
5. Successful completion of ETEC 537 or equivalent.

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

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;

Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.

3. Satisfactorily completed EDUC 603, 695 and ETEC 546;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 completed in residence at this university;
2. A minimum of 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of a master's degree project. The project, part of a course or courses other than independent study, normally in the candidate's teaching area, can be reported in the form of a paper and/or other media. The project must be approved by the instructor and the advisor and submitted in the approved format. Both media and non-media projects require a final written report. The project proposal and the project must be approved by the student's advisor and two other professors, at least one of whom must be from the College of Education. Further information is available from the College of Education regarding an approved format for the project proposal and project.

The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. All projects will be planned in consultation with the student's advisor;

5. The graduation writing requirement is met upon successful completion of the Master's Degree Project;
6. A minimum of 26 units in courses numbered 600 or above included as part of the approved graduate program;
7. Any additional general requirements not cited above and listed on [Page 364](#).

The program may not include more than 14 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (48 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)
4. ETEC 500. Foundations in Instructional Technology (4)

5. ETEC 544. Construction of Instructional Materials (4)
6. ETEC 546. Computer Based Technology in Education (4)
7. ETEC 605. Computers and Learning (4)
8. ETEC 609. Developing Computer Based Instructional Materials (4)
9. One of the following emphases (8 units):
Video Production
 1. ETEC 611. Media, Instructional Strategies and Design (4)
 2. ETEC 612. Seminar for Media Resource Personnel (4)
 Computer Application
 1. ETEC 691. Advanced Computer Applications (4)
 2. ETEC 692. Practicum for Computer Resource Personnel (4)
10. Elective
Four units chosen from:
 - EELB 604F. Advanced Curricular Studies in Elementary Education: Computers (4)
 - ESPE 691D. Issues and Trends in Special Education: Educational Technologies (4)
 - ETEC 621. Reading/Language Arts with Technology Integration (4)
 - ETEC 623. Technology in School Administration and Counseling (4)
 - ETEC 634. Information Systems in Education (4)
 - ETEC 674. Telecommunications in Education (4)
 - ETEC 675. Instructional Graphics (4)
 - ETEC 682. Interactive Multimedia (4)
11. EDUC 600. Master's Degree Project (4)

M.A. IN EDUCATION (KINESIOLOGY OPTION)

Requirements (46 units)

Admission to the Program

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

1. A valid teaching credential, teaching experience or related experience;
2. An undergraduate major in kinesiology and physical education or related discipline;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the College of Education and the Department of Kinesiology. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;

- Completed at least 16 quarter units of acceptable course work at this university, with the approval of the advisors and with a minimum grade point average of 3.0 ("B"). At least eight units must be in kinesiology, and four units in education;

Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.

- Satisfactorily completed EDUC 663 and 695;
- Secured the approval of candidacy from the College of Education and the Department of Kinesiology;
- Filed an approved graduate program for completion of the degree. This must be prepared in consultation with advisors in the College of Education and in the Department of Kinesiology and approved by the college, the department and the Dean of Graduate Studies.

Each student will have an advisor from the College of Education and one from the Department of Kinesiology. Dual signatures are necessary for registration for the initial quarter.

Requirements for Graduation

- A minimum of 46 quarter units of acceptable graduate-level work, with 33 completed in residence at this university;
- At least 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
- A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
- Five specified courses in education; seven courses in kinesiology and 4-6 electives;
- Successful completion of one of the following:

TRACK A. Master's Project (8 units)

EDUC 600. Master's Degree Project (4)

A satisfactory project is one which can be reported in the form of a paper and/or through other media. Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. All projects will be planned in consultation with the student's advisor. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and Department of Kinesiology and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Students who choose the project option must enroll in four units of electives with approval of an advisor.

TRACK B. Comprehensive Examination (8 units)

ESEC 633. Comprehensive Evaluation in Secondary Education (2)

The written comprehensive examination is designed to test the student's knowledge in the field of secondary education and kinesiology. The examination will be given in the fall and spring quarters. Students may take the examination twice. Students not successful in passing the examination will have the option of changing to Track A. Students who choose the comprehensive option must enroll in six units of electives with approval of an advisor.

Students will be encouraged to use a variety of media in presenting projects. The purpose of the project requirement is for the student to communicate ideas gathered in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. Each project will be planned with the cooperation of the professor concerned.

The program may not include more than 13 quarter units in extension and transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (46 units)

- EDUC 603. Effective Communication in Education (4)
- EDUC 663. Introduction to Educational Research (4)
- EDUC 695. Foundations of Education (4)
- ESEC 441. Secondary School Curriculum and Instruction II (4)
- KINE 600. Graduate Seminar (2)
- KINE 623. Sport and Social Issues (4)
- KINE 624. Sport Psychology (4)
- KINE 630. Physical Education for Special Populations (4)
- KINE 670. Leadership in Physical Education (4)
- KINE 681. Exercise and Sport Science (4)
- KINE 685. Analysis of Human Movement (4)
- Culminating Experience (8 units)

Project Option

- EDUC 600. Master's Degree Project (4)
- Four units selected with approval of department advisor.

Comprehensive Examination Option

- ESEC 633. Comprehensive Evaluation in Curriculum and Instruction (2)
- Six units selected with approval of department or advisor.

M.A. IN EDUCATION (LANGUAGE, LITERACY AND CULTURE [PRIMARY LANGUAGE] OPTION) AND BCLAD CREDENTIAL

Requirements (78 units)

This program option is designed for successful candidates to complete both the Master of Arts degree and BCLAD credential in two years (seven quarters) of full-time study, including summer. Some students may take longer to complete the program if individual circumstances so dictate.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to this program and classified graduate status are:

- Admission to Multiple Subject Credential (Intern Track) with a Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) Program. See Page 19 and 22 in the Handbook for the Multiple Subject Credential Programs: 2000-2001;

2. Completion of application form;
3. A grade point average of at least 2.5 in the last 90 quarter units;
4. Demonstrated proficiency in Spanish;
5. Completion of the graduate entrance writing requirement.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, with a grade point average of 3.0 ("B"), 16 quarter units of course work all of which must have been taken on this campus and approved by an advisor in the College of Education;

Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

Requirements for Graduation

1. Successful completion of all the required course work and additional requirements for the Multiple Subject Credential (Intern Track) with a Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) Credential (54 units);
2. A minimum of 46 quarter units of acceptable graduate level work, with a minimum of 38 units completed in residence at this university;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements, and grades of 3.0 ("B") or better in all courses in the program;
4. Successful completion of a comprehensive examination in bilingual education, which also satisfies the graduation writing requirement;
5. A minimum of 40 units in courses numbered 600 or above or their equivalents as determined by a College of Education advisor included as part of the approved program;
6. Any additional general requirements not cited above and listed on [Page 364](#).

The program may not include more than eight quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree and Credential Requirements (78 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)
4. EELB 321. Culture and Schooling (4)
5. EELB 332. Educational Psychology for a Diverse Society (4)
6. EELB 441. Mathematics Curriculum and Methods in the Elementary School (4)

7. EELB 443. Science Curriculum and Methods in the Elementary School (4)
8. EELB 455A. Supervised Intern Teaching in Multiple Subject (8)
9. EELB 455B. Supervised Intern Teaching in Multiple Subject (8)
10. EELB 551. Internship Seminar I: Classroom Organization, Management and Discipline (2)
11. EELB 611. Spanish Children's Literature for the Bilingual Classroom (4)
12. EELB 618. Social and Cultural Contexts for Bilingual Teaching and Learning (4)
13. EELB 619. Cognition, Language Acquisition and Biliteracy (4)
14. EELB 646. Advanced Reading/Language Arts (Primary Language) Curriculum and Methods in the Elementary School (4)
15. EELB 648. Advanced Social Studies/Humanities (Primary Language) Curriculum and Methods in the Elementary School (4)
16. EELB 654. Internship Seminar II: Advanced Curriculum and Instruction for a Diverse Society (4)
17. EELB 655. Internship Seminar III: Advanced Literacy and Second Language Acquisition in the Elementary School (4)
18. EELB 656. Internship Seminar IV: Ethics and Legal Aspects of Teaching – Capstone (4)
19. EELB 699. Comprehensive Examination (0)

M.A. IN EDUCATION (MIDDLE GRADES OPTION)

Requirements (46 units)

NOTE: The Middle Grades Option is undergoing curricular revision. Please check with the department.

Admission to the Program

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

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

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

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
 2. Completed with a grade point average of 3.0 ("B"), at least 16 quarter units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;
- Note:** Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Satisfactorily completed EDUC 603 and 695;
 4. Secured approval of candidacy from the College of Education;
 5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 46 quarter units of acceptable graduate-level work, with a minimum of 33 completed in residence at this university;
2. A minimum of 23 quarter units taken after the student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of one of the following:
 - Track A. Master's Project (6 units)
 - EDUC 600. Master's Degree Project (4)
 - ESEC 664. Project Design in Teacher Education (2)

A satisfactory project is one which can be reported in the form of a paper and/or through other media. Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms.

All projects will be planned in consultation with the student's advisor. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Students who choose Track A must take 10 units in the electives category.

- Track B. Comprehensive Examination (6 units)
 - ESEC 633. Comprehensive Evaluation in Secondary Education (2)

The written comprehensive examination is designed to test the student's knowledge in the field of middle school education. The examination will be given in November at the program site or CSUSB campus and lasts approximately four hours. Students may take the examination twice. Students not successful in passing the examination will have the option of changing to Track A.

Students who choose the comprehensive option must enroll in an additional four units of electives with approval of an advisor;

5. The graduation requirement is met upon successful completion of 4A or 4B above.
6. A minimum of 26 units in courses numbered 600 or above included as part of the approved graduate program;
7. Any additional general requirements not cited above and listed on [Page 364](#).

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. All projects will be planned in consultation with the student's advisor.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (46 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)
4. ESEC 602. Special Topics in Secondary Education (2)
5. ESEC 617. Middle Grade Curriculum and Instruction (4)
6. ESEC 621. Instructional Strategies and Approaches to Middle Grade (4)
7. ESEC 622. Practicum for Middle Grade Education (4)
8. ESEC 623. Foundations of Middle School Education (4)
9. ESEC 624. Advanced Teaching Methodology (4)
10. ECLG 633. Advanced Study in Child and Adolescent Development (4)
11. Electives

Students in the Master's Project Option must choose ten units and those in the Comprehensive Examination Option must choose 14 units from the electives listed below:

 - EADM 610. Supervision of Instruction (4)
 - EADM 619. Legal Aspects of Education (4)
 - EESL 536. Crosscultural Teaching (4)
 - ESEC 443. Adolescent Development and Educational Contexts (4)
12. Culminating Experience (6 units)

Students must take one of the following:

 - Project Option
 1. EDUC 600. Master's Degree Project (4)

2. ESEC 664. Project Design in Curriculum and Instruction (2)
Comprehensive Examination Option
1. ESEC 633. Comprehensive Evaluation in Curriculum and Instruction (2)
2. Four units from category 11, above, not previously taken.

M.A. IN EDUCATION (READING/LANGUAGE ARTS OPTION)

Requirements (48 units)

Admission to the Program

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

1. A valid basic California teaching credential or teaching experience;
2. A cumulative grade point average of 3.0 ("B") in all courses taken in education;
3. Completion of the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 16 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed with a grade point average of 3.0 ("B"), 12 quarter units of course work at least 8 of which must have been on this campus and approved by an advisor in the College of Education;

Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.

3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the program coordinator.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable work, with 35 completed in residence at this university;
2. A minimum of 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of A or B below:
 - A. ERDG 999. Comprehensive Examination (0), and ERDG 643. Critical Issues in Intermediate Reading and Writing (4)

- B. EDUC 600. Master's Degree Project;
5. The graduation writing requirement is met upon successful completion of ERDG 631;
6. Any additional general requirements not cited above and listed on [Page 364](#).

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available in the Graduate Thesis and Project Handbook available in the Coyote Bookstore. Students who elect to complete a project are not required to take a comprehensive examination.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of the field of reading/language arts rather than the subject matter of courses taken. The examination in reading/language arts is offered once each quarter. Students must enroll in the examination either through the regular registration process or through the College of Extended Learning in the Open University program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted. Students who do not receive a passing score may petition the College of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (48 units)

Core Courses (12 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)

Reading Core (32 units)

1. ERDG 620. Foundations of Reading and Writing (4)
Note: ERDG 620 is a prerequisite for all courses in the program.
2. ERDG 622. Basic Materials and Approaches to Reading and Writing (4)
3. ERDG 625. Practicum in Reading and Writing: Certificate (4)
4. ERDG 631. Curriculum Perspectives in Reading and Writing (4)

5. ERDG 632. Assessment/Evaluation in Reading and Writing (4)
6. ERDG 640. Early Reading: Assessment and Intervention (4)
7. ERDG 642. Images of Culture through Children's Literature (4)
8. ERDG 658. Literacy and Language Processes (4)

Culminating Experience (4 units)

1. Successful completion of A or B below:
 - A. ERDG 999. Comprehensive Examination (0)
 - ERDG 643. Critical Issues in Intermediate Reading and Writing (4)
 - B. Master's Degree Project Option
 - EDUC 600. Master's Degree Project (4)

M.A. IN EDUCATION (SECONDARY EDUCATION OPTION WITH SPECIALIZATIONS IN ENGLISH, HISTORY OR SPANISH)

Requirements (46 units)

Admission to the Program

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

1. A valid teaching credential or teaching experience;
2. An undergraduate major in English, history, or Spanish;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the College of Education and the Department of English, History, or Foreign Languages and Literatures. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 16 quarter units of acceptable course work at this university, with the approval of the advisors and with a minimum grade point average of 3.0 ("B"). At least four units must be in English, history or Spanish and eight units in education;

Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Satisfactorily completed EDUC 603 and 695;
4. Secured the approval of candidacy from the College of Education and the Department of English, History or Foreign Languages and Literatures;
5. Completed both the aptitude test and the advanced test in

English, history or Spanish of the Graduate Record Examination or an equivalent examination with acceptable scores;

6. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with advisors in the College of Education and in the Department of English, History or Foreign Languages and Literatures and approved by the school, the department and the Dean of Graduate Studies.

Each student will have an advisor from the College of Education and one from the Department of English, History or Foreign Languages and Literatures. Dual signatures are necessary for registration for the initial quarter.

Requirements for Graduation

1. A minimum of 46 quarter units of acceptable graduate-level work, with 33 completed in residence at this university;
2. At least 23 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Six specified courses in education; six courses either in English, history or Spanish;
5. One project, part of an appropriate English, history or Spanish course other than independent study, which can be reported in the form of a paper or other media. The project must be approved by the instructor and the advisor and submitted in the approved format, which also satisfies the graduation writing requirement;
6. Any additional general requirements not cited above and listed on [Page 364](#).

Students will be encouraged to use a variety of media in presenting projects. The purpose of the project requirement is for the student to communicate ideas gathered in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. Each project will be planned with the cooperation of the professor concerned.

The program may not include more than 13 quarter units in extension and transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (46 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)
4. ESEC 624. Advanced Teaching Methodology (4)
5. ESEC 644. Educational Assessment in K-12 Schools (4)
6. ESEC 662. School Curriculum (4)
7. One of the following options:

English Option (22 units)

1. Four units chosen from:
 - ENG 420. Pedagogical Grammar (4)
 - HUM 312. Theories of Language Acquisition and Learning (4)
2. ENG 510. English in the Secondary Classroom (4)

3. ENG 611. Theory of Rhetoric and Composition (4)
4. ENG 650. Approaches to Literature (4)
5. Six units of upper-division courses in English, chosen with the English advisor's approval.

History Option (22 units)

1. Twenty-two units chosen from, or other upper-division or graduate level units in history substituted with the history advisor's approval:
 - HIST 500. Tudor and Stuart England (4)
 - HIST 535. Studies in European National History (4)
 - HIST 540. Constitutional History of the United States (4)
 - HIST 556. Foreign Relations of the United States (4)
 - HIST 560. History of the American West (4)
 - HIST 565. Ethnic Minorities in American History (4)
 - HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
 - HIST 589. Revolutions in History (4)
 - HIST 595B. Independent Study (2)

Spanish Option (22 units)

1. SPAN 600. Theory and Rhetoric of Composition (4)
2. SPAN 601. Practicum in Cultural Experience (2)
3. Four units chosen from:
 - SPAN 602A. Problems in Applied Linguistics: Modern Grammar (4)
 - SPAN 602B. Problems in Applied Linguistics: Bilingualism (4)
 - SPAN 602C. Problems in Applied Linguistics: Discourse Analysis (4)
4. SPAN 603. Cultural Studies (4)
5. SPAN 604. Instructional Technology and Design (4)
6. SPAN 605. History of the Spanish Language (4)

M.A. IN EDUCATION (SPECIAL EDUCATION OPTION)

Requirements (48 units)

Admission to the Program

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

1. Official admission to the university;
2. Application for admission to the College of Education for the M.A. in Education, Special Education Option;
3. Submission of an application for a Certificate of Clearance or evidence of a credential or permit issued by the California Commission on Teacher Credentialing (CCTC);
4. Completion of prerequisite courses ESPE 529 and 530 with grades of "B" or better;
5. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program;
6. Completion of the graduate entrance writing requirement by one of the following:
 - a. Completion, with a grade of "B" (3.0) or better, of one of the following courses: EDUC 306, ENG 306, HUM

306, MGMT 306, NSCI 306, or SSCI 306 at this university or an equivalent course;

- b. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university.

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

Advancement to Candidacy

In addition to the above program admission requirements, master's degree candidates must successfully complete the following requirements in order to be advanced to candidacy:

1. Achieved unconditional admission to the M.A. in Education, Special Education Option (Mild/Moderate or Moderate/Severe);
2. Completion of ESPE 624, 637 and 655 (Mild/Moderate); or ESPE 624, 637 and 651 (Moderate/Severe); with a grade point average or 3.0 ("B") or better with no grade lower than a "B-";
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an assigned advisor in the College of Education and approved by the Chair of the Department of Special Education.

Note: Advancement to candidacy must be processed prior to completion of 20 quarter units of master's degree course work. Students will not be permitted to take the comprehensive examination in the same quarter they are advanced to candidacy.

Requirements for Graduation

In addition to requirements listed on [Page 364](#), candidates must meet the following requirements for graduation:

1. A minimum of 48 quarter units of acceptable work, with a minimum of 35 units completed at this university;

Note: The program may not include more than 13 quarter units in approved CSUSB extension or transfer courses from other colleges/universities. CSUSB will not consider the transfer of course work from an institution which will not accept that work towards its own advanced degree program.
2. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements with no grade lower than a "B-" in all courses in the program;
3. Successful completion of the project/thesis and/or comprehensive examination to meet the university graduation writing requirement.

A satisfactory project is one which must be reported in the form of a paper. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. The project proposal and the project must be approved by the student's advisor and one other professor

in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project. Students who elect to complete a project are not required to take a comprehensive examination.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of a specific field, rather than subject matter of courses taken. The examination is offered once each quarter. Students must enroll in the examination either through the regular registration process or through the College of Extended Learning in the Open University program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted.

Students who do not receive a passing score may petition the College of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

Prerequisite courses to be completed with a grade of "B" or better:

1. ESPE 529. Introductory Methods for Special Education (4)
2. ESPE 530. Psychology and Education of Exceptional Individuals (4)

Degree Requirements (48 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)
4. ESPE 624. Managing Learning and Social Communities (4)
5. ESPE 635. Effective Communication with Professionals and Families (4)
6. ESPE 637. Assessment and Evaluation (4)
7. ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
8. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
9. One of the following core tracks:

Moderate/Severe Disabilities Core

 1. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)
 2. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
 3. ESPE 653. Medical, Physical and Social Aspects of Education of Learners with Moderate/Severe Disabilities (4)

Mild/Moderate Disabilities Core

1. ESPE 655. Curriculum and Methods in Special Education: Language Arts (4)
2. ESPE 656. Curriculum and Methods in Special

Education: Core Subjects (4)

3. ESPE 657. Seminar on Mild/Moderate Disabilities (4)

10. One of the following options:

- A. Master's Degree Project (4)
- B. Written Comprehensive Examination Option
 1. Successful completion of the written comprehensive examination.
 2. Four units chosen in consultation with an advisor which may include one of the following:
 - EADM 616. Administration of Special Services (4)
 - ESPE 542D. Seminar in Special Education (4)
 - ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)

Note: an application is required for ESPE 633. Contact the Department of Special Education, 880-7406.

 - ESPE 665. Teaching Methods for Preschool Handicapped Children (4)
 - ESPE 685. Advanced Behavior Management (4)
 - ESPE 691A. Issues and Trends in Special Education: Current Issues (4)
 - ESPE 691B. Issues and Trends in Special Education: Collaboration and Consultation (4)
 - ESPE 691C. Issues and Trends in Special Education: Early Childhood (4)
 - ESPE 691D. Issues and Trends in Special Education: Instructional Technologies (4)
 - ESPE 691E. Issues and Trends in Special Education: Administration (4)
 - ESPE 691F. Issues and Trends in Special Education: Historical (4)
 - ESPE 691G. Issues and Trends in Special Education: Special Populations (4)
 - ESPE 691H. Issues and Trends in Special Education: Transition (4)
 - ESPE 691J. Issues and Trends in Special Education: Post Secondary (4)

M.A. IN EDUCATION (TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES [TESOL] OPTION)

Requirements (48 units)

Admission to the Program

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

1. A cumulative grade point average of 3.0 ("B") in all courses taken in education;
2. Completion of the graduate entrance writing require-

- ment;
3. Three letters of recommendation, one from the school where the candidate most recently taught or is currently teaching, to be evaluated by faculty members in the program;
 4. ENG 311. The English Language (or equivalent).

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Satisfactorily completed EDUC 603, 663 and 695;

Note: Between the time of completing 12 units and 19 units of applicable course work the student is required to apply for advancement to candidacy.
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor and approved by the Dean of the College of Education;
5. Native speakers of English must have two semesters or three quarters of study in one or more foreign languages at the post secondary level. Non-native speakers of English must take COMM 120.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 units completed in residence at this university;
2. A grade point average of 3.0 ("B") in all course work taken to satisfy the Master of Arts degree requirements, and grades of "C" (2.0) or better in all courses in the program;
3. Successful completion of one of the following:
 - A. EDUC 600. Master's Degree Project.

A successful project is one which can be reported in the form of a paper and/or other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in the approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project.

OR
 - B. Written comprehensive exam.

The written comprehensive examination is designed to test the student's knowledge of the field of ESL instruction. The examination is offered once each quarter and during the summer session. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student may take the examination (or any part of it) three times. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.
4. The graduation writing requirement is met upon successful completion of 4A or 4B above; and
5. Completion of the Candidate Assessment Portfolio. Details of the Candidate Assessment Portfolio approval process are outlined in the program information materials. The program may not include more than 14 quarter units

in approved extension and transfer courses from other colleges. California State University San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (48 units)

1. EDUC 603. Effective Communication in Education (4)
2. EDUC 663. Introduction to Educational Research (4)
3. EDUC 695. Foundations of Education (4)
4. EESL 521. Computer-Assisted Language Learning (4)
5. EESL 536. Crosscultural Teaching (4)
6. EESL 607. Principles and Practice in TESOL (4)
7. EESL 615. Research in TESOL (4)
8. Four units chosen from:
 - EESL 614. Curriculum Design for TESOL (4)
 - ESEC 511. Theory and Practice for English Language Development (ELD) (4)
9. Four units chosen from:
 - EESL 679. Field Work: Teaching English to Speakers of Other Languages (4)
 - ESEC 680. Practicum in Teaching English as a Second Language (4)
10. Four units chosen from:
 - EELB 630. Children's Literature in the Classroom (4)
 - ENG 420. Pedagogical Grammar (4) (Must be taken in conjunction with Education 601B, Independent Study, supervised by advisor.)
 - ENG 510. English in the Secondary Classroom (4)
 - EVOC 504. Principles of Adult Education (4)
11. Eight units from A or B which will also satisfy the graduation writing requirement:
 - A. EDUC 600. Master's Degree Project (4) plus four units of electives listed below.
 - B. Graduate Comprehensive Exam plus eight units of electives listed below.

Electives:

 - ECLG 655. Multicultural Counseling (4)
 - EELB 606. Theory and Practice in Teaching Bilingual Students I (4)
 - EELB 612. Social and Cultural Foundations for Language Learning (4)
 - EELB 620. Advanced Educational Psychology (4)
 - EELB 624. Advanced Teaching Methodology (4)
 - EELB 697. Implementing Educational Change (4)
 - EESL 544. Reading for English to Speakers of Other Languages (4)
 - EESL 613. Cognition and Language Acquisition (4)
 - ENG 523. English Syntax (4)
 - ENG 524. Sociolinguistics (4)
 - ENG 615. Discourse Analysis: Theories and Applications (4)
 - ENG 616. Contrastive Rhetoric (4)
 - ENG 617. Semantics and Pragmatics (4)
 - ENG 619. Second Language Acquisition (4)
 - ENG 621. Approaches to Imaginative

- Writing (4)
- ENG 625. TESL Methods and Materials for Speaking and Listening (4)
- ENG 626. TESL Methods and Materials for Reading and Writing (4)
- ERDG 620. Foundation of Reading and Writing (4)
- ERDG 642. Images of Culture through Children's Literature (4)
- ERDG 658. Literacy and Language Processes (4)
- ESEC 515. Issues and Trends in Secondary Education (4)
- ESEC 516. Models of Teaching and Advanced Teaching Methodology (4)
- ESEC 560. Study Skills for Secondary School (4)
- ESEC 605. Curriculum for Specially Designed Academic Instruction in English (SDAIE) (2)
- ESEC 617. Middle School Curriculum and Instruction (4)
- ESEC 621. Instructional Strategies and Approaches to Middle Grade (4)
- ETEC 544. Construction of Instructional Materials (4)
- ETEC 634. Information Systems in Education (4)
- ETEC 674. Telecommunications in Education (4)
- ETEC 682. Interactive Multimedia (4)
- HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4)
- HIST 567. The Asian-American Experience (4)
- or other upper-division graduate courses appropriate to this concentration, subject to advance approval by the Education Graduate Committee and TESOL specialist.

ADAPTED PHYSICAL EDUCATION SPECIALIST CREDENTIAL

Requirements (16 units)

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the adapted physical education specialist credential program requires the following:

1. A valid California teaching credential authorizing the teaching of physical education.

Credential Requirements (16 units)

Upper-division requirements (16 units)

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
2. KINE 330. Physical Education for the Exceptional Individual (4)
3. Eight units chosen from:
KINE 331A. Topics in Adapted Physical Education:

- Adapted aquatics (2)
- KINE 331B. Topics in Adapted Physical Education: Physically handicapped (2)
- KINE 331C. Topics in Adapted Physical Education: Learning handicapped (2)
- KINE 331D. Topics in Adapted Physical Education: Communicatively handicapped (2)
- KINE 331E. Topics in Adapted Physical Education: Severely handicapped (2)

ADMINISTRATIVE SERVICES PRELIMINARY CREDENTIAL

Requirements (37 units)

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Administrative Services Preliminary Credential program requires the following:

1. An application for admission to the program must be submitted;
2. A 3.0 ("B") grade point average in all course work taken in education;
3. Completion of the graduate entrance writing requirement;
4. One year of full-time teaching experience; substitute teaching does not apply;
5. Successful completion of the California Basic Educational Skills Test (CBEST).

Recommendation for the Credential

To be eligible to be recommended for the credential, a candidate must:

1. Complete the California Commission on Teacher Credentialing competencies dealing with mainstreaming of special education students;
2. Successfully complete all program requirements;
3. Obtain a recommendation from the program committee.

Credential Requirements (37 units)

Prerequisite/corequisite course (4 units)

1. EADM 601. Educational Leadership (4)

Core Courses (33 units)

1. EADM 607. Policy, Politics and Community Relations (4)
2. EADM 610. Supervision of Instruction (4)
3. EADM 613. School Personnel Administration (4)
4. EADM 619. Legal Aspects of Education (4)
5. EADM 622. School Curriculum (4)
6. EADM 625. School Finance and Business Management (4)
7. EADM 628. Fieldwork in Educational Administration (4) for a total of (8)
8. EADM 636. Performance Assessment Seminar (1)

ADMINISTRATIVE SERVICES PRELIMINARY (INTERNSHIP) CREDENTIAL

Requirements (37 units)

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Administrative Services Preliminary (Internship) Credential program requires the following:

1. An application for admission to the program must be submitted;
2. A valid California teaching or pupil personnel or health services credential;
3. A 3.0 ("B") grade point average in all coursework taken in education;
4. Completion of the graduate entrance writing requirement;
5. Three years of credentialed school related experience;
6. Successful completion of the California Basic Educational Skills Test (CBEST);
7. A contract between the student and the appropriate school board defining the administrative position;
8. Students must enroll in EADM 630 each quarter and complete the program within two years;
9. The internship credential from the Commission for Teacher Credentialing.

Recommendation for the Credential

To be eligible to be recommended for the administrative services preliminary credential, a candidate must:

1. Complete the California Commission on Teacher Credentialing competencies dealing with mainstreaming of special education students;
2. Successfully complete the program requirements;
3. Obtain a recommendation from the program committee.

Credential Requirements (37 units)

Prerequisite/corequisite course (4 units)

1. EADM 601. Educational Leadership (4)

Core courses (33 units)

1. EADM 607. Policy, Politics and Community Relations (4)
2. EADM 610. Supervision of Instruction (4)
3. EADM 613. School Personnel Administration (4)
4. EADM 619. Legal Aspects of Education (4)
5. EADM 622. School Curriculum (4)
6. EADM 625. School Finance and Business Management (4)
7. EADM 630. Internship Fieldwork in Educational Administration (4) for a minimum of (8)
8. EADM 636. Performance Assessment Seminar (1)

ADMINISTRATIVE SERVICES PROFESSIONAL CREDENTIAL PROGRAM

Requirements (36 units)

Admission to the Program

In addition to the general requirements of the university for admission as a postbaccalaureate student, admission to the Professional Administrative Services Credential program requires the following:

1. Application for admission to the program;
2. A valid clear Preliminary Services Credential;
3. Verification of a Master's Degree (M.A. or M.S.);
4. Verification of present employment in an administrative position;
5. A 3.0 ("B") grade point average in all graduate work;
6. An Individual Program Plan (IP) on file.

Recommendation for the Professional Credential

In order to be recommended for a credential, the student must have:

1. A minimum of two years of full-time school administrative experience in the public schools, or private schools or equivalent;
2. Completed all program requirements while employed in a full-time school administrative position.

Credential Requirements (24-36 units)

Phase I (24 units)

Prerequisite/corequisite course (3 units)

1. EADM 660. Advanced Field Studies: Assessment (3)

Core courses (18 units)

1. EADM 664. Principles of Leadership, Organizational Theory and Decision Making (3)
2. EADM 667. Instructional Leadership for Program Development and Evaluation (3)
3. EADM 670. School Law (3)
4. EADM 672. Human Resources Management (3)
5. EADM 675. School Business and Facility Management (3)
6. EADM 678. Social and Political Issues in Education (3)

Culminating course (3 units)

1. EADM 680. Advanced Field Studies: Evaluation (3)

Phase II (0-12 units)

Students may satisfy the remaining requirements by taking additional university coursework and/or professional development activities approved by the California Commission on Teacher Credentialing (CCTC). To satisfy this requirement, students have the following options:

1. Twelve units of university electives chosen in consultation with an advisor in the program and listed on the Individual Study Plan;
2. Documentation of 120 hours of professional development activities approved by the CCTC. These will not be

- listed on the university transcript as coursework with credit;
- Documentation of 120 hours of professional development activities approved by the CCTC. These may be listed on the university transcript as coursework with credit if approved by an Educational Administration advisor and taken in conjunction with EADM 542 for which the student must register and pay regular university fees;
 - A combination of the above three options to obtain 120 hours of professional development activities or 12 units of university coursework credit with advisor approval.

PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES

Requirements (44-48 units)

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities Program requires the following:

- Official admission to the university;
- Application for admission to the College of Education for the Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities Program;
- Submit documentation of a minimum of 45 hours in a K-12 classroom;
- Written verification of passing score on the California Basic Educational Skills Test (CBEST); (**Note:** Passing scores required for recommendation for the credential.)
- Verification of a negative tuberculin examination within the last four years;
- Establishment of a subject matter competence plan to include one of the following options:
 - Evaluation for subject matter competence equivalency program;
 - Registration for appropriate PRAXIS and/or SSAT examination;
 - Current enrollment in an approved subject matter program;
- Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- Attend mandatory Special Education group advising session;
- Meet with assigned faculty advisor to complete Advising Confirmation form.

Recommendation for the Credential

In addition to the program admission requirements, prerequisite course work and credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Level I Education Specialist Instruction Credential:

- Verification of subject matter competence by one of the following:
 - Completion of an equivalent California-approved subject matter preparation program verified in writing by authorized personnel;
 - Original verification of a passing score on the PRAXIS, MSAT and/or SSAT examination;
 - Completion of an approved subject matter preparation program offered on this campus or an approved subject matter preparation program at another California campus, verified in writing by authorized personnel;
- Completion of the upper division writing requirement by one of the following:
 - Completion, with a grade of "B" (3.0) or better, in one of the following courses taken at this university:

EDUC 306.	Expository Writing for Education (4)
ENG 306.	Expository Writing (4)
HUM 306.	Expository Writing for the Humanities (4)
MGMT 306.	Expository Writing for Administration (4)
NSCI 306.	Expository Writing for the Natural Sciences (4)
SSCI 306.	Expository Writing for the Social Sciences (4)
 - Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another college or university;
 - Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university;
 - A passing score on the written portion of the CBEST; **Note:** CBEST exam does not meet the graduate writing requirement for the Master of Arts degree;
- Completion of the U.S. Constitution requirement by one of the following:
 - HIST 146. American Civilization (4)
 - HIST 200. United States History to 1877 (4)
 - HIST 540. Constitutional History of the United States (4)
 - PSCI 203. American Government (4)
 - PSCI 410. American Constitutional Law (4)
 - PSCI 411. The Bill of Rights (4)
 - Successful completion of an examination administered through the College of Extended Learning;
 - Approved course substitution;
- Verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
- Verification of a passing score on the RICA (Reading Instruction Competence Assessment);

Note: Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from RICA. Please call the C.A.S.E. Office (880-5609), for further information.
- A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-;"
- Verification of Employment as an Education Specialist form (CL-777.1) from the employing school district and signed by an authorized district personnel officer.

Note: Candidates who do not provide form CL-777.1 will be issued a Certificate of Eligibility which will authorize the candidate to seek initial employment as an Education Specialist but will not authorize teaching service.

Prerequisite courses (20 units)

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
to be completed with a grade of "B" (3.0) or better;
2. One of the following tracks with a grade point average of 3.0 ("B") or better and no grade lower than "B-:"

Multiple Subject Track

1. Four units chosen from:
 - EELB 331. Growth and Development in Socio-Educational Contexts (4)
 - PSYC 320. Psychology of Middle Childhood (4)
2. EELB 332. Educational Psychology for a Diverse Society (4)
3. EELB 441. Mathematics Curriculum and Methods in the Elementary School (4)
4. Four units chosen from:
 - EELB 445. Reading/Language Arts Curriculum and Methods in the Elementary School (4)
 - EELB 446. Reading/Language Arts (Primary Language) Curriculum and Methods in the Elementary School (4)

Single Subject Track

1. ESEC 332. Educational Psychology for a Diverse Society (4)
 2. EELB 441. Mathematics Curriculum and Methods in the Elementary School (4)
 3. Four units chosen from:
 - ESEC 443. Adolescent Development and Educational Contexts (4)
 - PSYC 320. Psychology of Middle Childhood (4)
 4. ESEC 445. Teaching Reading and Writing in Secondary School Subjects (4)
- Additional requirements must be filled for multiple subject CLAD/BCLAD or single subject or single subject CLAD credentials.

Level I Credential Requirements (24-28 units)

1. ESPE 529. Introductory Methods for Special Education (4) (with a grade of "B" or better)
2. ESPE 624. Managing Learning and Social Communities (4)
3. ESPE 637. Assessment and Evaluation (4)
4. ESPE 655. Curriculum and Methods in Special Education: Language Arts (4)
5. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
6. Four units chosen from the following field experience courses:
 - ESPE 609A. General and Special Education Field Experiences: Mild/Moderate Disabilities (4)

ESPE 679A. Special Education Fieldwork: Mild to Moderate Disabilities I (4)

Note: ESPE 679A is to be taken only by those students who hold a valid California Preliminary/Professional Clear Multiple Subject or Single Subject Credential.

Upon completion of subject matter competence, U.S. Constitution and Level I Special Education program requirements, students need to apply for a Preliminary Level I Education Specialist Credential or Certificate of Eligibility. Official transcripts from all college and universities attended other than California State University, San Bernardino, must be submitted to C.A.S.E. along with the application for the Education Specialist Credential or the Certificate of Eligibility. The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five (5) years of issuance of the preliminary credential, students must complete Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential.

PROFESSIONAL CLEAR LEVEL II EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES

Requirements (24 units)

Admission to the Program

The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete the Level II Education Specialist program requirements in order to obtain the Professional Clear Level II Education Specialist Credential. Unconditional admission to the Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities program requires the following:

1. Official admission to the university;
2. Submission of a valid Preliminary Level I Education Specialist Credential;
3. Verification of current employment as an Education Specialist;
4. Application to ESPE 633. Reflective Inquiry Seminar and Induction Plan. Applications can be obtained from the Department of Special Education, UH-403, 880-7406.

Recommendation for the Credential

In addition to the program admission requirements and credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Professional Clear Level II Education Specialist Credential:

- One of the following to fulfill the health education requirement (with a grade of "C" or better):
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
 - HSCI 440. Family Health Issues for Educators (4)
- Verification of current and valid CPR certification for infants/adolescents/adults;
- The following are required to fulfill the computer literacy requirement (with a grade of "B-" or better):
 - ETEC 537. Introduction to Computer Technology in Education (2)
 - ETEC 546. Computer Based Technology in Education (4)
- A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
- Verification of a minimum of two years of successful full-time teaching experience while holding the Preliminary Level I Education Specialist Credential.

Level II Credential Courses (24 units)

- ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
- ESPE 635. Effective Communication with Professionals and Families (4)
- ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
- ESPE 656. Curriculum and Methods in Special Education: Core Subjects (4)
- ESPE 679B. Special Education Fieldwork: Mild/Moderate Disabilities II (4)
- ESPE 685. Advanced Behavior Management (4)

PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIAL: MODERATE/ SEVERE DISABILITIES

Requirements (44-48 units)

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Preliminary Level I Education Specialist Credential: Moderate/Severe Disabilities Program requires the following:

- Official admission to the university;
- Application for admission to the College of Education for the Preliminary Level I Education Specialist Instruction Credential;
- Submit documentation of a minimum of 45 hours in a K-12 classroom;
- Written verification of passing score on the California Basic Educational Skills Test (CBEST);
- Original verification of a negative tuberculin examination within the last four years;
- Establishment of a subject matter competence plan to include one of the following options:

- Evaluation for subject matter competence equivalency program,
 - Registration for appropriate PRAXIS and/or SSAT examination,
 - Current enrollment in an approved subject matter program;
- Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
 - Attend mandatory Special Education group advising session;
 - Meet with assigned faculty advisor to complete Advising Confirmation form.

Recommendation for the Credential

In addition to the program admission requirements, prerequisite course work and credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Level I Education Specialist Credential:

- Verification of subject matter competence by one of the following:
 - Completion of an equivalent California-approved subject matter preparation program verified in writing by authorized personnel;
 - Original verification of a passing score on the PRAXIS and/or SSAT examination;
 - Completion of an approved subject matter preparation program offered on this campus or an approved subject matter preparation program at another California campus, verified in writing by authorized personnel;
- Completion of the upper division writing requirement by one of the following:
 - Completion, with a grade of "B" (3.0) or better, in one of the following courses taken at this university:
 - EDUC 306. Expository Writing for Education (4)
 - ENG 306. Expository Writing (4)
 - HUM 306. Expository Writing for the Humanities (4)
 - MGMT 306. Expository Writing for Administration (4)
 - NSCI 306. Expository Writing for the Natural Sciences (4)
 - SSCI 306. Expository Writing for the Social Sciences (4)
 - Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another college or university;
 - Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university;
 - A passing score on the written portion of the CBEST;

Note: CBEST exam does not meet the graduate writing requirement for the Master of Arts degree.
- Completion of the U.S. Constitution requirement by one of the following:
 - HIST 146. American Civilization (4)
 - HIST 200. United States History to 1877 (4)
 - HIST 540. Constitutional History of the United States (4)
 - PSCI 203. American Government (4)

- E. PSCI 410. American Constitutional Law (4)
 - F. PSCI 411. The Bill of Rights (4)
 - G. Successful completion of an examination administered through the College of Extended Learning;
 - H. Approved course substitution;
4. Original verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
 5. Original verification of a passing score on the RICA (Reading Instruction Competence Assessment);
- Note:** Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from RICA. Please call the Credential Assistance for Students in Education office (C.A.S.E.), 880-5609, for further information.
6. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-;"
 7. Verification of Employment as an Education Specialist form (CL-777.1) from the employing school district and signed by an authorized district personnel officer.
- Note:** Candidates who do not provide form CL-777.1 will be issued a Certificate of Eligibility which will authorize the candidate to seek initial employment as an Education Specialist but will not authorize teaching service.

Prerequisite courses (20 units)

1. ESPE 530. Psychology and Education of Exceptional Individuals (4) to be completed with a grade of "B" (3.0) or better;
2. One of the following tracks with a grade point average of 3.0 or better and no grade lower than "B-:"

Multiple Subject Track

1. Four units chosen from:
 - EELB 331. Growth and Development in Socio-Educational Contexts (4)
 - PSYC 320. Psychology of Middle Childhood (4)
2. EELB 332. Educational Psychology for a Diverse Society (4)
3. EELB 441. Mathematics Curriculum and Methods in the Elementary School (4)
4. Four units chosen from:
 - EELB 445. Reading/Language Arts Curriculum and Methods in the Elementary School (4)
 - EELB 446. Reading/Language Arts (Primary Language) Curriculum and Methods in the Elementary School (4)

Single Subject Track

1. ESEC 332. Educational Psychology for a Diverse Society (4)
2. EELB 441. Mathematics Curriculum and Methods in the Elementary School (4)
3. Four units chosen from:
 - ESEC 443. Adolescent Development and Educational Contexts (4)
 - PSYC 320. Psychology of Middle Childhood
4. ESEC 445. Teaching Reading and Writing in Secondary School Subjects (4)

Additional requirements are needed to meet multiple subject CLAD/BCLAD or single subject or single subject CLAD credentials.

Level I Credential Requirements (24-28 units)

1. ESPE 529. Introductory Methods for Special Education (4) (to be completed with a grade of "B" or better)
2. ESPE 624. Managing Learning and Social Communities (4)
3. ESPE 637. Assessment and Evaluation (4)
4. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)
5. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
6. Four units chosen from:
 - ESPE 609C. General and Special Education Field Experiences: Moderate/Severe Disabilities (4)
 - ESPE 679C. Special Education Fieldwork: Moderate/Severe Disabilities I (4)

Note: ESPE 679C is to be taken only by those students who hold a valid California Preliminary/Professional Clear Multiple Subject or Single Subject Credential.

Upon completion of subject matter competence, U.S. Constitution and Level I Special Education program requirements, students need to apply for a Preliminary Level I Education Specialist Credential or Certificate of Eligibility. Official transcripts from all colleges or universities attended other than California State University, San Bernardino, must be submitted to C.A.S.E. along with the application for the Education Specialist Credential or Certificate of Eligibility. The State Of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five (5) years of issuance of the preliminary credential, students must complete Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II Education Specialist Credential.

PROFESSIONAL CLEAR LEVEL II EDUCATION SPECIALIST CREDENTIAL: MODERATE/ SEVERE DISABILITIES

Requirements (24 units)

Admission to the Program

The State of California requires students to enroll in the Professional Clear Level II Education Specialist Credential program within 120 working days of completion of the preliminary credential program requirements and issuance of the Preliminary Level I Education Specialist Credential. Within five years of issuance of the preliminary credential, students must complete the Level II Education Specialist Program requirements in order to obtain the Professional Clear Level II

Education Specialist Credential. Unconditional admission to the Professional Clear Level II Education Specialist Credential: Moderate/ Severe Disabilities program requires the following:

1. Official admission to the university;
2. Submission of a valid Preliminary Level I Education Specialist Credential;
3. Verification of current employment as an Education Specialist;
4. Application to ESPE 633. Reflective Inquiry Seminar and Induction Plan. Applications are available in the Department of Special Education, UH-403, 880-7406.

Recommendation for the Credential

In addition to the program admission requirements and credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Professional Clear Level II Education Specialist Credential:

1. One of the following to fulfill the health education requirement (with a grade of "C" or better):
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
 - HSCI 440. Family Health Issues for Educators (4)
2. Verification of current and valid CPR certification for infants/adolescents/adults;
3. The following are required to fulfill the computer literacy requirement (with a grade of "B-" or better):
 - ETEC 537. Introduction to Computer Technology in Education (2)
 - ETEC 546. Computer Based Technology in Education (4)
4. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
5. Verification of a minimum of two years of successful full-time teaching experience while holding the Preliminary Level I Education Specialist Credential.

Level II Credential Courses (24 units)

1. ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
2. ESPE 635. Effective Communication with Professionals and Families (4)
3. ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
4. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
5. ESPE 685. Advanced Behavior Management (4)
6. ESPE 679D. Special Education Fieldwork: Moderate/Severe Disabilities II (4)

INTERNSHIP EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES

Requirements (106 units)

The Mild/Moderate Disabilities Intern Program is an alternative preparation program in which interns are employed full-time as special day class teachers for pupils with mild/moderate disabilities while earning the Professional Clear Level II Education Specialist Credential for Mild/Moderate Disabilities and completing all required course work for the Crosscultural, Language and Academic Development Certificate (CLAD). All requirements must be completed in two years. Interns earn tenure credit in their districts and receive ongoing supervision/support from a university supervisor and district support provider. A new cohort of interns is selected for program admission every summer. Interested applicants should contact the Mild/Moderate Disabilities Intern Coordinator for program information, including the two-year program course sequence and program costs. Grant funds are available for fees and book stipends.

Note: To earn the M.A. in Education, Special Education Option, students must complete an additional four courses (16 units); and project (4 units), or comprehensive examination (0 units) plus an elective (4 units).

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Internship Education Specialist Credential program requires the following:

1. Written verification of passing score for the California Basic Educational Skills Test (CBEST);
2. Verification of subject matter competence by one of the following:
 - a. completion of an equivalent California-approved subject matter preparation program verified in writing by authorized personnel;
 - b. written verification of a passing score on the PRAXIS: MSAT and/or SSAT examination;
 - c. completion of an approved subject matter preparation program offered on this campus or an approved subject matter preparation program at another California campus, verified in writing by authorized personnel;
3. Three written recommendations, including at least one from immediate supervisor;
4. Interview by university/school district representatives.

Recommendation for the Internship Education Specialist Credential: Mild/Moderate Disabilities

1. Submission of application for the Internship Education Specialist Credential: Mild/Moderate Disabilities;
2. Employment as a special day class teacher for pupils with mild/moderate disabilities in a participating school district, verified by district intern contract;
3. Verification of a negative tuberculin examination within the last four years;

4. Submission of an application for a Certificate of Clearance or evidence of a credential or permit authorizing public school teaching in California;
5. Completion of the U.S. Constitution requirement by one of the following:
 - A. HIST 146. American Civilization (4)
 - B. HIST 200. United States History to 1877 (4)
 - C. HIST 540. Constitutional History of the United States (4)
 - D. PSCI 203. American Government (4)
 - E. PSCI 410. American Constitutional Law (4)
 - F. PSCI 411. The Bill of Rights (4)
 - G. Successful completion of an examination administered through the College of Extended Learning,
 - H. Approved course substitution.

Recommendation for the Professional Clear Education Specialist Credential: Mild/Moderate Disabilities

In addition to credential and CLAD course work, candidates must successfully complete the following exit requirements to be recommended for the Professional Clear Education Specialist Credential: Mild/Moderate Disabilities:

1. Completion of the upper division writing requirement by one of the following:
 - A. Completion, with a grade of "B" (3.0) or better, of one of the following courses taken at this university:
 - EDUC 306. Expository Writing for Education (4)
 - ENG 306. Expository Writing (4)
 - HUM 306. Expository Writing for the Humanities (4)
 - MGMT 306. Expository Writing for Administration (4)
 - NSCI 306. Expository Writing for the Natural Sciences (4)
 - SSCI 306. Expository Writing for the Social Sciences (4)
 - B. Completion with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at a college or university;
 - C. Satisfactory completion of the Writing Requirement Exemption Examination (WREE) offered at this university;
 - D. A passing score on the written portion of the CBEST;

Note: CBEST exam does not meet the graduate writing requirement for the Master of Arts degree.
2. One of the following to fulfill the health education requirement (with a grade of "C" or better):
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
 - HSCI 440. Family Health Issues for Educators (4)
3. Verification of current and valid CPR certification for infants/adolescents/adults;
4. The following are required to fulfill the computer literacy requirement (with a grade of "B-" or better):
 - ETEC 537. Introduction to Computer Technology in Education (2)
 - ETEC 546. Computer Based Technology in Education (4)
5. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
6. Verification of a passing score on the RICA (Reading Instruction Competence Assessment).

Note: Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from RICA. Contact C.A.S.E. for further information (880-5609).

Credential and CLAD Requirements

Pre-employment

1. ESPE 529. Introductory Methods for Special Education Interns (4)

Year One

Fall

1. ESPE 656. Curriculum and Methods in Special Education: Core Subjects (4)
2. ESPE 680A. Intern Teaching: Special Education (8)

Winter

1. ESPE 624. Managing Learning and Social Communities (4)
2. ESPE 680A. Intern Teaching: Special Education (8)

Spring

1. Four units chosen from:
 - EELB 321. Culture and Schooling (4)
 - ESEC 321. Culture and Schooling (4)
 2. Four units chosen from:
 - EELB 445. Reading/Language Arts Curriculum and Methods in the Elementary School (4)
 - ESEC 445. Teaching Reading and Writing in Secondary School Subjects (4)
 3. ESPE 680A. Intern Teaching: Special Education (8)
- Summer
1. ESPE 637. Assessment and Evaluation (4)
 2. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)

Year Two

Fall

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
2. ESPE 655. Curriculum and Methods in Special Education: Language Arts (4)
3. ESPE 680A. Intern Teaching: Special Education (8)

Winter

1. Four units chosen from:
 - EELB 511. Theory and Practice for English Language Development (ELD) (4)
 - ESEC 511. Theory and Practice for English Language Development (ELD) (4)
 2. ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
 3. ESPE 680A. Intern Teaching: Special Education (8)
- Spring
1. EELB 441. Mathematics Curriculum and Methods in the Elementary School (4)

2. ESPE 635. Effective Communication with Professionals and Families (4)
3. ESPE 680A. Intern Teaching: Special Education (8) Summer
 1. Two units chosen from:
 - EELB 605. Curriculum for Specially Designed Academic Instruction in English (SDAIE) (2)
 - ESEC 605. Curriculum for Specially Designed Academic Instruction in English (SDAIE) (2)
 2. Four units chosen from:
 - EELB 680. Practicum in Teaching English as a Second Language (4)
 - ESEC 680. Practicum in Teaching English as a Second Language (4)

Note: The second language requirement for CLAD certificate is not included in the program. Contact C.A.S.E. for further information.

Student who have completed a CLAD/BCLAD emphasis or certificate program do not need to complete the following CLAD courses: EELB 321, ESEC 321, 511, 605 or 680.

PUPIL PERSONNEL SERVICES CREDENTIAL: SCHOOL COUNSELING

Requirements (72 units)

The program for the Pupil Personnel Services Credential is designed to fulfill all the requirements for the State of California to counsel in grades K-12. This 72-unit credential program is designed for students who are not enrolled in the M.S. in Counseling and Guidance program at California State University, San Bernardino, but who do hold a master's degree from another institution in a related discipline.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the pupil personnel services credential program are:

1. Attend an Educational Counseling Program admission orientation meeting (held winter and spring quarters, as announced);
2. Submission of an Admissions Portfolio following criteria and guidelines provided at the orientation meeting. Portfolios will be evaluated in accordance to the Educational Counseling program portfolio rubric, student will be notified as to their status to enroll in ECLG 531. Completed portfolio contains:
 - a. Application and current vitae/resume;
 - b. Transcripts of all higher education coursework;
 - c. Written Personal Statement;
 - d. Three positive recommendations from persons having knowledge of applicant's counseling potential (forms provided by program);
 - e. Proof of successful completion of the California Basic Educational Skills Test (CBEST);
 - f. Evidence of current negative TB skin test;
 - g. Evidence of possession of professional liability insurance;
 - h. Evidence of possession of a valid California teaching credential or a Certificate of Clearance for eligibility to participate in fieldwork;

- i. Completion of EDUC 306 (or its equivalent) with a grade of "B" or better (fulfills the graduate entrance writing requirement);
 - j. Evidence of technological literacy in six areas: word processing, database, computer presentation, downloading, internet and email;
3. Completion of ECLG 531 with a grade of "B" (3.0) or better. Must be taken concurrently with EDUC 663. A recommendation from the instructor (a full-time faculty member) of ECLG 531 which includes an evaluation in relation to the course competencies.

Upon completion of the above requirements, the student's file will be reviewed by an admission committee composed of at least three faculty members of the educational counseling program. This committee will evaluate the admission folder and decide on the student's admission status. Students who do not meet admissions criteria will be notified of their deficiencies.

Recommendation for the Credential

In order to be recommended for a credential, the student must have:

1. A minimum of 72 quarter units of acceptable graduate-level work, with a minimum of 32 units completed in residency at this university;
2. A grade point average of "B" (3.0) in the course work taken to satisfy the credentialing requirements, including a minimum grade of "B" in the prerequisite course, ECLG 531, and grades of "C" (2.0) or better in all courses in the program;
3. Completion of a credential program plan of study, certified by a program advisor and the credentialing office of the university;
4. Completion of a final competency check and exit interview in conjunction with ECLG 699.

Prerequisite courses:

1. ECLG 531. Introduction to Counseling (4)
Note: Must be taken concurrently with EDUC 663.
2. EDUC 306. Expository Writing for Education (4) (or its equivalent)

Credential requirements (72 units)

1. EDUC 663. Introduction to Educational Research (4)
2. ECLG 601. Research Methods in Counseling (4)
3. ECLG 619. Appraisal Procedures in Counseling (4)
4. ECLG 632. Advanced Psychological Foundations of Education (4)
5. ECLG 633. Advanced Study in Child and Adolescent Development (4)
6. ECLG 650. Applied Career Counseling (4)
7. ECLG 651. Professional School Counselor (4)
8. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4)
9. ECLG 655. Multicultural Counseling (4)
10. ECLG 656. Counseling Theories and Techniques (4)
11. ECLG 657A. Counseling Practicum (4)
12. ECLG 657B. Counseling Practicum (4)
13. ECLG 658. Consulting with Parents and Staff (4)
14. ECLG 672. Leadership, Advocacy, and Preventive Education in Educational Counseling (4)

15. ECLG 678. Theory and Practice of Group Counseling (4)
16. ECLG 679A. Counseling Fieldwork: Multicultural (4)
17. Twelve units chosen from:
 - ECLG 679B. Counseling Fieldwork: Elementary School (4)
 - ECLG 679C. Counseling Fieldwork: Middle School (4)
 - ECLG 679D. Counseling Fieldwork: High School (4)
18. ECLG 699. Advanced Seminar in Educational Counseling (4)

PUPIL PERSONNEL SERVICES CREDENTIAL: SCHOOL PSYCHOLOGY

Requirements (47 units)

The School Psychology program at California State University, San Bernardino provides professional preparation for the Pupil Personnel Services Credential with Specialization in School Psychology. This program is designed to meet the mandates for the Pupil Personnel Services Credential in School Psychology (PPS) established by the California Commission on Teacher Credentialing (CCTC). The program is also designed to meet the national accreditation standards of the National Association of School Psychologists (NASP) as adopted in 1984-1985 and revised in 1994.

The School Psychologist Credential program is a 47-quarter unit sequence of training designed for professionals who already possess a master's or doctoral degree in Educational Counseling, Psychology, Special Education, Education, Marriage/Family Therapy, and Social Work, or are in the final stages of training for such a discipline (e.g. final year of coursework, thesis to complete, etc.). Students must complete the common, standard courses (50 units) as well as the school psychology specialization standards courses (47 units) to receive the PPS Credential in School Psychology. The sequence also includes a 1200-hour internship in a school setting.

Students who have graduated from CSU, San Bernardino with an M.S. in Counseling and Guidance degree will have already taken the common, standard coursework as part of their program. Candidates from other programs and universities will have transcripts individually evaluated to ascertain how thoroughly previous graduate work complies with the common and generic standards which are required by the state for certification. Previous course work will be substituted with appropriate verification using transcripts and course catalog descriptions from the college or university where this course work was completed. Students admitted to the School Psychology Credential Program will design a two-year schedule with their advisor to make up any course work needed to comply with the common and generic standards for the Pupil Personnel Services Credential as well as advanced coursework (47-unit sequence) which meets the state standards for school psychology specialization. Included in this sequence are 1200 hours of internship in a school setting (K-12) which are accrued year round. Students must have evidence of completing 450 clock hours of practica prior to beginning 1200 hours of internship. Supervision is provided on site a minimum of two hours per week by a credentialed school psychologist with at least three years of experience in the field. The student is also

supervised on the university site two hours per week by a university faculty member during the internship. If a student intends to obtain a paid internship in school psychology, they must apply for the internship credential from the C.A.S.E. office following the first year of study.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the PPS in School Psychology are:

1. Admission and acceptance to CSU, San Bernardino;
2. Current vitae resume;
3. Current sealed transcript which verifies an M.A., M.S. or Ph.D. in Counseling or a related field;
4. Writing sample (include an APA-style graduate level paper which indicates the applicant's competency in writing);
5. Application and personal statement;
6. Three reference forms and letters of recommendation from persons having knowledge of the applicant's potential as a school psychologist, sent independently to the program director;
7. Proof of passing the California Basic Educational Skills Test (CBEST);
8. Evidence of possession of professional liability insurance (may be provided once accepted into program);
9. Evidence of possession of a valid California teaching credential, PPS in School Counseling, or a Certificate of Clearance for eligibility to participate in fieldwork;
10. Evidence of current negative TB skin test;
11. Evidence of technological literacy in six areas: word processing, database, computer presentation, downloading, internet, and email.

Upon completion of the above requirements, the student's file will be reviewed by an admission committee composed of at least three members of the educational counseling/school psychology faculty. This committee will evaluate the admissions folder and decide on the student's admission status. Students admitted to the program will meet with their advisor and design their schedule for the two-year program, including any work needed to complete the common and generic standards for the PPS Credential. Students who are not chosen for the cohort will be notified of the admission decision.

Recommendation for the Credential

In order to be recommended for a credential, a student must have:

1. Completed all prescribed coursework with a grade of "B" (3.0) or better;
2. Completed all requirements for the 1200-hour internship including the specific competencies in the program as mandated by the California Commission for Teacher Credentialing.

Credential Requirements (47-97 units)

Common Standard Courses (50 units)

1. ECLG 601. Research Methods in Counseling (4)
2. ECLG 619. Appraisal Procedures in Counseling (4)
3. ECLG 632. Advanced Psychological Foundations of Education (4)
4. ECLG 633. Advanced Study in Child and Adolescent Development (4)

5. ECLG 650. Applied Career Counseling (4)
6. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4)
7. ECLG 655. Multicultural Counseling (4)
8. ECLG 656. Counseling Theories and Techniques (4)
9. ECLG 657A. Counseling Practicum (4)
10. ECLG 658. Consulting with Parents and Staff (4)
11. ECLG 678. Theory and Practice of Group Counseling (4)
12. ECLG 679A. Counseling Fieldwork: Multicultural (4) (200 hours)

School Psychology Specialization Standards (47 units)

1. ECLG 647. Individual Testing and Case Study Techniques I (5)
2. ECLG 648. Individual Testing and Case Study Techniques II (5)
3. ECLG 649. Ecological Assessment and Case Study Techniques (5)
4. ECLG 660. Seminar in Child/Adolescent Psychopathology and Treatment (4)
5. ECLG 686. Seminar in Counseling of Children and Parents (4)
6. ECLG 687. School Psychologist as Change Agents: Theory and Practice (4)
7. ECLG 689A. Seminar/Internship in School Psychology (4)
8. ECLG 689B. Seminar/Internship in School Psychology (4)
9. ECLG 689C. Seminar/Internship in School Psychology (4)
10. ECLG 693. Special Topics in School Psychology (4)

PUPIL PERSONNEL SERVICES CREDENTIAL: SOCIAL WORK

Requirements (102-122 units)

Admission to the Program

1. Successful completion of the California Basic Educational Skills Test (CBEST);
2. A graduate-level grade point average of 3.0 or better.

Credential Requirements (102-122 units)

1. An M.S.W. with Children, Youth and Family Concentration (90 units)
2. SW 637. School Social Work (4)
3. Twelve units of field work, for a total of 450 hours of field placement in a school site:
 - SW 608E. Field Work (4)
 - SW 608F. Field Work (4)
 - SW 608G. Field Work (4)
4. ECLG 619. Appraisal Procedures in Counseling (4)
5. ECLG 632. Advanced Psychological Foundations of Education (4)
6. ECLG 650. Applied Career Counseling (4)
7. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4)
8. SW 999. Comprehensive Examination (0)

Note: Students who have already graduated from the M.S.W. program will need to meet requirements 2 to 8 in addition to the 90 units of the M.S.W.

for a total of 122 units, plus the CBEST and the comprehensive examination. Students currently enrolled in the M.S.W. will be able to incorporate requirements 2, 3, and one of the courses in requirements 4 to 7 into the 90 units of the M.S.W. for a total of 102 units plus the CBEST and the comprehensive examination.

READING/LANGUAGE ARTS SPECIALIST CREDENTIAL

Requirements (48 units)

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Reading/Language Arts Specialist Credential program requires the following:

1. A valid California Multiple Subject or Single Subject credential and at least one year of full-time teaching in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
2. A 3.0 grade point average in all course work taken in education;
3. Application packet (obtained from the Department of Language, Literacy and Culture or the College of Education Master's Program Office) which includes information to complete:
 - A. Program application form;
 - B. Letter of interest which includes experiences working with diverse populations;
 - C. Three letters of recommendation: one from the candidate's school principal, and two from other district professionals who can speak to the strengths of the applicant's personal qualities and professional qualifications;
4. Upon completing the application packet, meet with the Reading/Language Arts Coordinator to complete the program plan.

Recommendation for the Credential

In order to be recommended for a credential, the candidate must have:

1. Completed all of the prescribed course work with a grade point average of 3.0 ("B") or better;
2. Verified that all California Commission on Teacher Credentialing Standards have been met;
3. Verified at least three years of successful full-time teaching experience in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
4. Obtain a letter of recommendation from the coordinator of the program.

Credential Requirements (48 units)

Level I: Reading Certificate

1. ERDG 620. Foundations of Reading and Writing (4)
Note: ERDG 620 is a prerequisite for all courses in the program.

2. ERDG 622. Basic Materials and Approaches to Reading and Writing (4)
3. ERDG 625. Practicum in Reading and Writing (4)
4. ERDG 640. Early Reading: Assessment and Intervention (4)
5. ERDG 642. Images of Culture through Children's Literature (4)
6. ERDG 658. Literacy and Language Processes (4)

Level II: to be taken upon completion of all courses in Level I

7. ERDG 624. Socio-psycholinguistics and Literacy (4)
8. ERDG 630. Practicum for Leadership in Reading and Writing (4)
9. ERDG 631. Curriculum Perspectives in Reading and Writing (4)
10. ERDG 632. Assessment/Evaluation in Reading and Writing (4)
11. ERDG 643. Critical Issues in Intermediate Reading and Writing (4)
12. ERDG 679. Field Work: Reading/Language Arts Specialist (4)

SCHOOL NURSE CREDENTIAL

Requirements (48 units)

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the school nurse credential program requires the following:

1. A current California Registered Nurse License;
2. A current First Aid card;
3. A current Cardiopulmonary Resuscitation card, Level C.

Recommendation for the Professional Credential

In order to be recommended for a credential, the student must have:

1. Completed all prescribed course work with a grade point average of 3.0 ("B") or better;
2. A current First Aid card and current Cardiopulmonary Resuscitation card, Level C.

Credential Requirements

1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
2. ESPE 635. Effective Communication with Professionals and Families (4)
3. Four units chosen from:
 - HSCI 332. Health Education in the Elementary School (4)
 - HSCI 333. Health Education in the Secondary School (4)
4. HSCI 334. School Health Administration and Planning (4)
5. HSCI 342. Nutrition for Your Health (4)
6. HSCI 364. Drug and Alcohol Use and Abuse (4)
7. HSCI 371. Community Health Services (4)
8. HSCI 374. Basic Audiometry (4)
9. NURS 502. Health Assessment of Children and Adolescents (4)

10. NURS 503. Principles of School Nursing Practice (4)
11. NURS 504. School Nursing Internship (4)
12. Four units of electives may be selected after consultation with the student's faculty advisor.

SUPERVISION AND COORDINATION OF DESIGNATED SUBJECTS PROGRAMS CREDENTIAL

Requirements (12 units)

Admission to the Program

1. Possession of, or eligibility for a "clear" designated subjects teaching credential;
2. Three years of full time teaching experience in the subject title on the teaching credential;

All applicants for this credential should contact a designated subjects credential advisor and enroll in EVOC 508 as soon as possible.

Credential Requirements (12 units)

1. EVOC 508. Organization and Structure of Designated Subjects Programs (4)
2. EVOC 509. Personnel Management in Designated Subjects Programs (4)
3. EVOC 510. Field Work in Coordination and Supervision of Designated Subjects Programs (4)
4. Successful completion of the California Basic Educational Skills Test (CBEST).

CERTIFICATE PROGRAMS

Certificates may be earned by regularly matriculated or Extended Learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Community College Counseling

Admission to the Program

1. Postbaccalaureate standing;
2. Master's degree in education or related field;
3. Current employment as a community college instructor, administrator or counselor.

Certificate Requirements (24 units)

1. ECLG 661. Administration of Community College Student Services (4)
2. ECLG 662. Community College Student Development (4)
3. ECLG 663. Career Development for Community College Students (4)
4. ECLG 664. Community College Counseling Issues (4)

5. ECLG 666. Professional Community College Counselor (4)
6. ECLG 667. Fieldwork in Community College Counseling (4)

Certificate in Crosscultural, Language and Academic Development (CLAD)

Admission to the Program

1. Postbaccalaureate standing;
2. Completion of a single subject or multiple subject teaching credential or the equivalent.

Certificate Requirements (18 units)

1. Four units chosen from:
 - EELB 321. Culture and Schooling (4)
 - EESL 536. Teaching in a Multicultural Society (4)
 - ESEC 321. Culture and Schooling (4)
2. Four units chosen from:
 - EELB 333. Curriculum and Instruction for a Diverse Society (4)
 - ESEC 333. Curriculum and Instruction for a Diverse Society (4)
3. Four units chosen from:
 - EELB 511. Theory and Practice for English Language Development (ELD) (4)
 - ESEC 511. Theory and Practice for English Language Development (ELD) (4)
4. Four units chosen from:
 - EELB 605. Curriculum Development for Specially Designed Academic Instruction in English (SDAIE) (2)
 - ESEC 605. Curriculum Development for Specially Designed Academic Instruction in English (SDAIE) (2)
5. Four units chosen from:
 - EELB 680. Practicum in Teaching English as a Second Language (4)
 - ESEC 680. Practicum in Teaching English as a Second Language (4)

Certificate in Education of the Gifted and Talented

Certificate Requirements (20 units)

1. ESPE 538. Introduction to Teaching the Gifted and Talented (4)
2. ESPE 539. Programs for Teaching the Gifted and Talented (4)
3. ESPE 630A. Topics in Research in Teaching and Learning: Gifted and Talented (4)
4. ESPE 679B. Special Education Field Work: Gifted and Talented (4)
5. Four units chosen from:
 - EETC 500. Foundations in Instructional Technology (4)
 - EETC 546. Computer Based Technology in Education (4)

Certificate in Educational Computing

Certificate Requirements (20 units)

1. ETEC 546. Computer Based Technology in Education (4)
2. ETEC 605. Computers and Learning (4)
3. ETEC 609. Developing Computer Based Instructional Materials (4)
4. ETEC 691. Advanced Computer Applications in Education (4)
5. ETEC 692. Practicum for Computer Resource Personnel (4)

Certificate in Educational Professional Services

Admission to the Program

1. Postbaccalaureate standing;
2. Valid teaching credential;
3. Two years of teaching experience.

Certificate Requirements (24 units)

1. Four units chosen from:
 - EELB 620. Advanced Educational Psychology (4)
 - ESEC 620. Advanced Educational Psychology (4)
2. Four units chosen from:
 - EELB 644. Educational Assessment in K-12 Schools (4)
 - ESEC 644. Educational Assessment in K-12 Schools (4)
3. Four units chosen from:
 - EELB 650A. Professional Teacher Development Seminar A (4)
 - ESEC 650A. Professional Teacher Development Seminar A (4)
4. Four units chosen from:
 - EELB 650B. Professional Teacher Development Seminar B (4)
 - ESEC 650B. Professional Teacher Development Seminar B (4)
5. Four units chosen from:
 - EELB 653. Supervision and Mentoring of Classroom Teachers (4)
 - ESEC 653. Supervision and Mentoring of Classroom Teachers (4)
6. Four units chosen from:
 - EELB 652. Service Learning in Public Schools (4)
 - EELB 662. School Curriculum (4)
 - EELB 697. Implementing Educational Change (4)
 - ESEC 652. Service Learning in Public Schools (4)
 - ESEC 662. School Curriculum (4)
 - ESEC 697. Implementing Educational Change (4)

Certificate in Educational Technology

Certificate Requirements (28 units)

1. ETEC 500. Foundations in Instructional Technology (4)
2. ETEC 544. Construction of Instructional Materials (4)
3. ETEC 546. Computer Based Technology in Education (4)
4. ETEC 605. Computers and Learning (4)

5. ETEC 612. Seminar in Instructional Design (4)
6. Eight units chosen from:
 - COMM 242. Writing for Print Media (4)
 - CSCI 125. Programming in BASIC (2)
 - ETEC 609. Developing Computer Based Instructional Materials (4)
 - ETEC 611. Media and Strategies in Teaching (4)
 - ETEC 691. Advanced Computer Applications in Education (4)
 - MUS 519. Audio Production (2)

Certificate in Environmental Education

Admission to the Program

1. Completion of at least 15 quarter units of undergraduate natural sciences course work or the equivalent.

Certificate Requirements (16 units)

1. EENV 635. Environmental Education in the Curriculum (4)
2. Twelve units to be chosen from:
May choose only one of the following two courses:
 - EELB 636. Advanced Science Methods (4)
 - NSCI 499. Methods and Materials in the Teaching of Natural Sciences Subjects (4)
- EENV 642. Developing the Curriculum Through Outdoor Education (4)
- EENV 643. Community Resources for Environmental Education (4)
- EENV 670A. Topics in Environmental Education: Current Issues (2) for a total of (4)
- EENV 670B. Topics in Environmental Education: Readings In Environmental Education (2) for a total of (4)
- EENV 670C. Topics in Environmental Education: Outdoor Studies (2) for a total of (4)
- EENV 670D. Topics in Environmental Education: Laboratory Science Applications (2) for a total of (4)
- EENV 670E. Topics in Environmental Education: Language Arts Applications (2) for a total of (4)
- EENV 670F. Topics in Environmental Education: Social Studies Applications (2) for a total of (4)
- EENV 670G. Topics in Environmental Education: Technology Applications (2) for a total of (4)
- EENV 670H. Topics in Environmental Education: Arts Applications (2) for a total of (4)
- EENV 670J. Topics in Environmental Education: Environmental Ethics (2) for a total of (4)
- EENV 670K. Topics in Environmental Education: Selected Topics (2) for a total of (4)
- EENV 670L. Topics in Environmental Education: Nature Study Applications (2) for a total of (4)
- EENV 670M. Topics in Environmental Education: Plant Study Applications (2) for a total of (4)

- EENV 670N. Topics in Environmental Education: Animal Study Applications (2) for a total of (4)
- EENV 670P. Topics in Environmental Education: Marine Science Applications (2) for a total of (4)

Certificate in Middle Grade Education

Admission to the Program

1. Postbaccalaureate standing.

Certificate Requirements (16 units)

1. ESEC 443. Adolescent Development and Educational Contexts (4)
2. ESEC 617. Middle School Curriculum and Instruction (4)
3. ESEC 621. Instructional Strategies and Approaches to Middle Grade (4)
4. ESEC 622. Practicum in Middle Grade Education (4)

Certificate in Reading/Language Arts

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the reading certificate requires the following:

1. A valid California Multiple Subject or Single Subject credential and at least one year of full-time teaching in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
2. A 3.0 grade point average in all course work taken in education;
3. Application packet (obtained from the Department of Language, Literacy and Culture or the College of Education Master's Program Office) which includes information to complete:
 - A. Program application;
 - B. Letter of interest which includes experiences working with diverse populations;
 - C. Three letters of recommendation: one from the candidate's school principal, and two from other district professionals who can speak to the strengths of the applicant's personal qualities and professional qualifications;
4. Upon completing the application packet, meet with the Reading/Language Arts Coordinator to complete the program plan.

Recommendation for the Certificate

In order to be recommended for the certificate, the candidate must have:

1. Completed all of the prescribed course work with a grade point average of 3.0 ("B") or better;
2. Verified that all California Commission on Teacher Credentialing Standards have been met;
3. Verified at least three years of successful full-time teaching experience in any grades, preschool through adult, exclusive of student teaching, internship teaching, or teaching while holding an emergency credential or permit;
4. Obtain a letter of recommendation from the coordinator of the program.

Certificate Requirements (24 units)

1. ERDG 620. Foundations of Reading and Writing (4)
Note: This course is the prerequisite for all courses in the program.
2. ERDG 622. Basic Materials and Approaches to Reading and Writing (4)
3. ERDG 625. Practicum in Reading and Writing (4)
4. ERDG 640. Early Reading: Assessment and Intervention (4)
5. ERDG 642. Images of Culture through Children's Literature (4)

Certificate in Rehabilitation Counseling**Certificate Requirements (28 units)**

1. ECLG 531. Introduction to Counseling (4)
2. EREH 615. Introduction to Rehabilitation Counseling (4)
3. EREH 616A. Multiple Aspects of Disability: Medical (4)
4. EREH 616B. Multiple Aspects of Disability: Vocational (4)
5. EREH 617. Vocational Assessment and Development (4)
6. EREH 618. Applied Job Placement (4)
7. EREH 649. Organizational Development of Rehabilitation Services (4)

Note: Rehabilitation Counseling 615 must be completed with a grade of "B" (3.0) or better to continue work in the certificate program.

Certificate in Remedial Education in the Elementary School

The certificate in remedial education in the elementary school is for both the multiple subject and single subject teachers who wish to enhance their ability to accommodate handicapped individuals in the regular classroom. Students would be enrolled in degree-applicable catalog courses and meet the same requirements of certificate programs of this university.

Admission to the Program

1. Postbaccalaureate standing;
2. Concurrent enrollment in or completion of a multiple subject or single subject teaching credential or the equivalent.

Certificate Requirements (20 units)

1. EDUC 601. Advanced Independent Study Topics in Education (1-4) for a total of (4)
2. EELB 632. Mathematics Clinic (4)
3. ERDG 629. Special Topics in Reading (2) for a total of (4)
4. ESPE 540. Strategies for Remedial Teaching (4)
5. Four units chosen from:
 - EDUC 543. Individualized Instruction (4)
 - EESL 536. Crosscultural Teaching (4)
 - ERDG 658. Literacy and Language Processes (4)

Certificate in Resource Specialist in Special Education**Admission to the Program**

Admission to the university must precede admission to the certificate program.

1. A baccalaureate degree from an accredited college;
2. A valid special education teaching credential;
3. A cumulative grade point average of 2.6 in the last 90 quarter units and a 3.0 ("B") in all course work taken in education;
4. ESPE 530 or its equivalent; and a minimum of 20 credit hours in special education.

Certificate Completion Requirements

1. Three years teaching experience to include full-time teaching in both the regular and the special education classroom.

Certificate Requirements (16 units)

1. ESPE 635. Effective Communication with Professionals and Families (4)
2. ESPE 646. The Resource Specialist in Special Education (4)
3. Four units chosen from:
 - ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
 - EADM 616. Administration of Special Services (4)
 - ERDG 625. Practicum in Reading and Writing (4)
4. ESPE 679E. Special Education Field Work: Resource Specialist (4)

Certificate in School Business Management**Certificate Requirements (26 units)**

1. EADM 511. Contemporary School Business Management (4)
2. EADM 512. School Finance and Budgeting (4)
3. EADM 513. School Accounts and Related Functions (4)
4. EADM 525. Classified Personnel Administration (4)
5. Six units chosen from:
 - EADM 514A. School Business Management and Service Functions: Purchasing, Warehousing and Inventory (2)
 - EADM 514B. School Business Management and Service Functions: Risk Management (2)
 - EADM 514C. School Business Management and Service Functions: Facilities Planning, Construction (2)
 - EADM 514D. School Business Management and Service Functions: Computer Services in Business Functions (2)
 - EADM 514E. School Business Management and Service Functions: Maintenance, Operations and Transportation (2)
 - EADM 514F. School Business Management and Service Functions: Employee Supervision (2)

6. Four units of electives chosen from:
- EADM 619. Legal Aspects of Education (4)
 - ECLG 531. Introduction to Counseling (4)
 - ESPE 530. Psychology and Education of Exceptional Individuals (4)
 - PA 307. Public Relations in the Public Sector (4)
- OR
- Four additional units chosen from (if not taken previously):
- EADM 514A. School Business Management and Service Functions: Purchasing, Warehousing and Inventory (2)
 - EADM 514B. School Business Management and Service Functions: Risk Management (2)
 - EADM 514C. School Business Management and Service Functions: Facilities Planning, Construction (2)
 - EADM 514D. School Business Management and Service Functions: Computer Services in Business Functions (2)
 - EADM 514E. School Business Management and Service Functions: Maintenance, Operations and Transportation (2)
 - EADM 514F. School Business Management and Service Functions: Employee Supervision (2)

Certificate in Study Strategy Instruction for the Secondary Schools

The certificate in study strategy instruction for the secondary schools is for junior/senior high school teachers, administrators and counselors who wish to enhance their ability to incorporate study skill instruction into their curricula.

Admission to the Program

1. Postbaccalaureate standing;
2. Concurrent enrollment or completion of a multiple or single subject teaching credential.

Certificate Requirements (20 units)

1. EDUC 601. Advanced Independent Study Topics in Education (1-4) for a total of (4)
2. ERDG 629. Special Topics in Reading (2) for a total of (4)
3. ESEC 560. Study Skills for Secondary School (4)
4. ESEC 602. Special Topics in Secondary Education (2) for a total of (4)
5. Four units chosen from:
 - EDUC 543. Individualized Instruction (4)
 - EESL 536. Teaching in a Multicultural Society (4)
 - ERDG 658. Oral and Written Language Development (4)

Graduate level course descriptions are listed on the following pages. Refer to the page numbers given for those programs listed elsewhere in the graduate studies section.

EDUC	Education (general and core courses)
EADM	Educational Administration (listed on Page 457)
ECLG	Educational Counseling (listed on Page 401)
EELB	Elementary Education
EENV	Environmental Education
EESL	English as a Second Language
ERDG	Reading Education
EREH	Rehabilitation Counseling (listed on Page 503)
ESEC	Secondary Education
ESPE	Special Education
ETEC	Instructional Technology
EVOC	Vocational Education

COURSE OFFERINGS IN EDUCATION (EDUC)

Upper Division

542. Seminar in Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 5 units)

543. Individualized Instruction

An individualized course on techniques and procedures for constructing materials, tracking students, classroom management, learning centers, record keeping and media involvement for individualizing instruction at all levels. (4 units)

574. Foundations of Institutional Education: History and Literature

Introduction to historic and current correctional and alternative education delivery structures, the prison reform/correctional education (CE) movement and the classic literature. Emphasis on major CE development in North America, CE paradigms, anomalies, and trends. (Also offered as EDUC 674. Students may not receive credit for both.) (4 units)

575. Educational Change in Institutional Settings

Addresses the work of reforming prisoners and prisons through democratic methods. It equips educators with specialized, professional knowledge and skills to emphasize student learning and personal/professional growth in the most restrictive learning environment. Includes coping with institutional constraints, networking for cooperative resources, managing stressful situations, and support structures that foster student learning. The metaphysical, dialectical, and paradigmatic approaches to educational change will be considered. (Also offered as EDUC 675. Students may not receive credit for both.) (4 units)

580. Teaching the Institutional Student

Overview of identified student needs, underlying assumptions, curricular components, and instructional methodologies appropriate to institutional education. Relevant traditional and innovative theory, practice and trends in instruction will be considered. (Also offered as EDUC 680. Students may not receive credit for both.) (4 units)

595. Independent Study

Special topics involving library and/or field research. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and college approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Master's Degree Project

Prerequisite: advancement to candidacy. (4 units)

601. Advanced Independent Study Topics in Education

Special topics involving application of educational procedures. Prerequisites: minimum grade point average of 3.0, consent of instructor and college approval of a written proposal of a project submitted on a standard application, and filed in advance of the term in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

603. Effective Communication in Education

Dynamics of interpersonal communication with an emphasis on the characteristics of an individual's participation in small groups within educational structures. Varying philosophical/theoretical approaches to teaching will be considered. (4 units)

610. Research Methodology in Education

Principles of research design, methods of data collection and analysis. (4 units)

623. The Science Curriculum

The structure and context of science education. Emphasis will be placed on the cognitive processes and curricular content of science as it applies to teaching. (2 units)

634. Research in Science Education

Topics include cognitive development, program development, attitudes, nature of science, teacher preparation, process and content, evaluation, and misconceptions/constructivism. Students will design an action research project in science education. (4 units)

645. Issues in Science, Technology and Society in the Classroom

Emphasis on the issues, strategies, and curricula appropriate for implementing the science/technology/society theme into the science classroom instruction. (2 units)

663. Introduction to Educational Research

Introduction to the vocabulary, design, sources of research in education; parametric and non-parametric statistics and evaluation of research. (4 units)

674. Foundations of Institutional Education: History and Literature

Introduction to historic and current correctional and alternative education delivery structures, the prison reform/correctional education (CE) movement and the classic literature. Emphasis on major CE development in North America, CE paradigms, anomalies, and trends. (Also offered as EDUC 574. Students may not receive credit for both. Students in EDUC 674 must complete additional requirements.) (4 units)

675. Educational Change in Institutional Settings

Addresses the work of reforming prisoners and prisons through democratic methods. It equips educators with specialized, professional knowledge and skills to emphasize student learning and personal/professional growth in the most restrictive learning environment. Includes coping with institutional constraints, networking for cooperative resources, managing stressful situations, and support structures that foster student learning. The metaphysical, dialectical, and paradigmatic approaches to educational change will be considered. (Also offered as EDUC 575. Students may not receive credit for both.) Students in EDUC 675 must complete additional requirements. (4 units)

680. Teaching the Institutional Student

Overview of identified student needs, underlying assumptions, curricular components, and instructional methodologies appropriate to institutional education. Relevant traditional and innovative theory, practice and trends in instruction will be considered. (Also offered as EDUC 580. Students may not receive credit for both.) Students in EDUC 680 must complete additional requirements. (4 units)

694. Master's Project in Science Education

Prerequisites: advancement to candidacy and consent of the graduate coordinator. (4 units)

695. Foundations of Education

History and theory of education within the setting of American society. This course must be taken during the first 12 units of course work toward the Master of Arts degree or before advancement to candidacy. (4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

COURSE OFFERINGS IN ELEMENTARY/BILINGUAL EDUCATION (EELB)

Upper Division

511. Theory and Practice for English Language Development (ELD)

Study and practice of the design, implementation and assessment of a communication-based curriculum for the English language learners in all stages of second language development. Includes selection and use of appropriate ELD strategies and materials. (Also offered as ESEC 511. Students may not receive credit for both.) Prerequisites: EELB 321, EESL 536 or ESEC 321; and EELB 333 or ESEC 333. (4 units)

512. Spanish Children's Literature for the Bilingual Classroom

Examines children's literature and how it has the potential to be culturally authentic, interesting and effective in literacy instruction. (Also offered as EELB 611. Students may not receive credit for both.) (4 units)

513. Motivation and Behavior Management of Children

Addresses developmentally-appropriate practices in motivating and sustaining school-aged children's interest, involvement, and appropriate conduct. Theories of achievement motivation and research on student involvement will be addressed as they apply to the classroom where students differ in culture, gender, language, ethnicity, socioeconomic status, and handicapping conditions. Approaches to management of classroom resources and student behavior will be analyzed as students develop their own discipline plans. Five hours of observation/participation in a public elementary school classroom are required. (Also offered as HD 513. Students may not receive credit for both.) Prerequisites: senior standing, EELB 310 and HD 315 or equivalent. (3 units)

541. Problems in Elementary Curriculum

Advanced study of some phase of the elementary school curriculum. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

542. Seminar in Elementary/Bilingual Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

545. Teaching Science in Elementary School

Intensive study of teaching science in elementary school. Exploration, analysis, interpretation and implementation of science process teaching. Intended for experienced teachers. Prerequisite: consent of instructor. (4 units)

551. Internship Seminar I: Classroom Organization, Management and Discipline

Seminar for CLAD and BCLAD interns, focusing on knowledge, skills and attitudes required for a first year teacher during the first month of teaching. Graded credit/no credit. Formerly EDUC 550B. Prerequisite: admission into the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). (2 units)

554. Internship Seminar II: Curriculum and Instruction for a Diverse Society

Seminar for CLAD and BCLAD interns focusing on knowledge, skills and attitudes required for a first year teacher. Included are developing curriculum and instruction for English Language Learners. Key issues and concepts include the following: first and second language acquisition theories; enrichment versus deficit models of schooling; role of verbal interaction in the classroom; bilingual education; English language development (ELD) and specially designed academic instruction in English (SDAIE). Other issues include historical, legal, and educational foundations of bilingual education, organizational models and instructional approaches. This course fulfills the credential requirement for EELB 333. Formerly EDUC 550D. Graded credit/no credit. Prerequisite: admission into the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). Corequisite: EELB 455A. (4 units)

555. Internship Seminar III: Literacy and Second Language Acquisition in the Elementary School

Seminar for CLAD and BCLAD interns focusing on knowledge, skills and attitudes required for a first year teacher. Continuation of EELB 445/446 with emphasis on approaches to English Language Development (ELD), planning for both language and content instruction (SDAIE), literacy in content areas, technology and assessment techniques, techniques for pre-literate students, and transfer of literacy skills from first to second language. This course fulfills the credential requirements for EELB 449. Formerly EDUC 555. Graded credit/no credit. Prerequisite: admission to the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). Corequisite: EELB 455B. (4 units)

556. Internship Seminar IV: Capstone

Seminar for CLAD and BCLAD interns focusing on knowledge, skills and attitudes required for a first year teacher. This seminar includes: discussion of issues in continuing development of the teaching work and experiences; continuing development of the teaching portfolio. Fulfills the credential requirement for EELB 450. Formerly EDUC 556. Graded credit/no credit. Prerequisite: admission to the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

604. Advanced Curricular Studies in Elementary Education

Current and new curricula in elementary school subjects (K-6). May be repeated once in the same subject area. Prerequisite: teaching credential or consent of instructor.

- A. Mathematics (2 units)
- B. Science (2 units)
- C. Social Studies (2 units)
- D. Language Arts (2 units)
- E. Fine Arts (2 units)
- F. Computers (2 units)

605. Curriculum for Specially Designed Academic Instruction in English (SDAIE)

Study and practice of the design, implementation, and assessment of specially designed academic instruction in English (SDAIE). Includes selection and use of appropriate SDAIE strategies and materials. Formerly a topic under ESEC 602. Also offered as ESEC 605, students may not receive credit for both. Prerequisites: EELB 321, EESL 536, or ESEC 321; EELB 333 or ESEC 333; and EELB 511 or ESEC 511. (2 units)

606. Theory and Practice in Teaching Bilingual Students I

Bilingual/crosscultural teaching strategies and curriculum development; methods of integrating English and Spanish in the instructional program; evaluation of language skills, emphasis on social sciences and language arts. Prerequisite: consent of instructor. (4 units)

608. Research in Bilingual/Cross-Cultural Education

Survey of current measurements and research in bilingual/cross-cultural education and their applications in the classroom. (4 units)

609. Research in Elementary School Subjects

Research conducted on selected educational topics. Prerequisite: EDUC 663.

- A. Mathematics (4 units)
- B. Science (4 units)
- C. Social Studies (4 units)
- D. Language Arts (4 units)
- E. Fine Arts (4 units)
- F. Computers (4 units)

610. Language Assessment in the Elementary Classroom

Assessment practices for language arts programs analyzed in light of their appropriateness for students with various levels of English proficiency. The selection, development, administration, and scoring of tests and authentic measures for evaluating the progress of language minority students will be reviewed, as well as standards for identification, reclassification, entry and exit of limited English proficient students into English as a second language program. (4 units)

611. Spanish Children's Literature for the Bilingual Classroom

Examines children's literature and how it has the potential to be culturally authentic, interesting and effective in literacy instruction. (Also offered as EELB 512. Students may not receive credit for both.) (4 units)

612. Social and Cultural Foundations for Language Learning

The relationships between language and culture will be explored with an emphasis on some of the existent variations within the English language among different social and ethnic groups and how these differences have emerged. (4 units)

618. Social and Cultural Contexts for Bilingual Teaching and Learning

The relationship between language and culture will be explored with an emphasis on some of the existent variations within the English language among different social and ethnic groups and how these differences have emerged. Examines the development of mind as social construction. For educators this requires an understanding of the connectedness of social, institutional and interactional factors which foster the cognitive development of bilingual students. (4 units)

619. Cognition, Language Acquisition and Bilinguality

An analysis of the language acquisition process as it emerges from the early grammars of the child and develops into the complex grammatical structures and patterns of the mature individual. Examines sociopsycholinguistic, sociocultural, psychogenetic and sociopolitical traditions and how they relate to the literacy development of students in bilingual and mainstream programs. (4 units)

620. Advanced Educational Psychology

Advanced seminar exploring recent theory and research on cognition, personality, and psychosocial development with an emphasis on examining their interactions with the learning process. (Also offered as ESEC 620. Students may not receive credit for both.) Prerequisite: an upper-division child development course. (4 units)

624. Advanced Teaching Methodology

Development of various advanced teaching methods as well as self and peer coaching for the improvement of teaching. Formerly EELB 580. (Also offered as ESEC 624. Students may not receive credit for both.) (4 units)

625. Curriculum and Materials for Bilingual and ESL Classrooms

Provides participants with advanced knowledge of curricular and instructional approaches used in effective bilingual and English as a Second Language (ESL) programs. (4 units)

626. Literacy and Bilingual Development

Examines sociopsycholinguistic, sociocultural, psychogenetic and sociopolitical traditions and how they relate to the literacy development of students in bilingual and mainstream programs. (4 units)

627. Innovations in Bilingual Education

Examines the theoretical bases of innovations in curriculum, instruction and school reform to meet the needs of students in bilingual education. (4 units)

628. Bilingualism and the Social Construction of Mind

Examines the development of mind as social construction. For educators this requires an understanding of the connectedness of social, institutional and interactional factors which foster the cognitive development of bilingual students. (4 units)

629. Special Topics in Elementary Education

Relevant issues, techniques, and topics in elementary education.

A. Primary Language Literacy (4 units)

630. Children's Literature in the Classroom

Intensive study of children's literature as it applies in elementary and middle school classrooms with an emphasis on developing familiarity with the variety and wealth of literature available, strategies for classroom instruction and appropriate assessment tools. Formerly EELB 645. Prerequisite: EELB 345 or consent of instructor. (4 units)

632. Mathematics Clinic

Administration of diagnostic instruments and assessment procedures to elementary school students, followed by prescription and initiation of remedial measures to strengthen the mathematics areas. Formerly EELB 577. Prerequisites: MATH 301 and four additional quarter units in mathematics. (4 units)

633. Comprehensive Evaluation in Curriculum and Instruction

Review and preparation for the written comprehensive examination as well as the administration of the comprehensive examination. (Also offered as ESEC 633. Students may not receive credit for both.) Graded credit/no credit. Prerequisites: advancement to candidacy and permission of program coordinator. (2 units)

634. Advanced Social Studies Methods

Advanced seminar for elementary educators exploring current research, curriculum, and methods in social studies instruction. (4 units)

636. Advanced Science Methods

Intensive study of teaching science in elementary school. Exploration, analysis, interpretation and implementation of science process teaching. Intended for experienced teachers. Formerly EELB 545. Prerequisite: consent of instructor. (4 units)

644. Educational Assessment in K-12 Schools

Development and utilization of educational assessment techniques to obtain reliable and useful information to document student achievement in K-12 schools. Includes the study of traditional assessment measures as well as authentic assessment and outcome-based methods. (Also offered as ESEC 644. Students may not receive credit for both.) (4 units)

646. Advanced Reading/Language Arts (Primary Language) Curriculum and Methods in the Elementary School

Materials, methods, strategies for teaching reading/language arts with a focus on researched-based instruction, including explicit instruction in basic reading skills and comprehension strategies to meet the needs of culturally diverse students. Emphasis on emergent reading and writing behaviors, balanced literacy components, and literature for students with varied reading levels and language backgrounds. Part of the course will be taught in Spanish. Requires a six-hour field component including participation with beginning readers in an approved setting. In addition, students will be required to conduct a case study research project tracking a beginning reader and writer's literacy/biliteracy development across time. Fulfills credential requirement for EELB 446. (4 units)

647. Topics in Teaching Elementary Science

Topics covered in the elementary science methods course. Concentrates on the current resources, techniques, research, curricula, and technology being used in elementary science education. Three hours lecture and two hours science laboratory activities. (4 units)

648. Advanced Social Studies/Humanities (Primary Language) Curriculum and Methods in the Elementary School

Comprehensive course in curriculum and instruction for elementary education in the social sciences and the humanities in a culturally diverse society. Includes designing instruction to meet academic and language needs of Spanish-speaking students through bilingual/crosscultural teaching strategies and curriculum development, methods of integrating English and Spanish in the instructional program and evaluation of language skills. Part of the course will be taught in Spanish. Requires a six-hour field component including participation in teaching at an approved dual language setting if not concurrently enrolled in student teaching. Fulfills credential requirement for EELB 448. (4 units)

650. Professional Teacher Development

- A. Seminar A: Designed to support teachers pursuing National Board Certification. Teachers will review research of effective teaching strategies and examine their own practice as a foundation for effective decision making. Emphasis on student learning and development, student motivation, and the influence of context and culture on student learning and behavior. In addition, teachers will examine subject matter knowledge including how disciplinary knowledge is created, organized, linked to other disciplines, and applied to real world settings. (Also offered as ESEC 650A. Students may not receive credit for both.) (4 units)
- B. Seminar B: Assists teachers pursuing National Board Certification. Examines instructional settings and techniques designed to capture and sustain student interest and ensure academic success. In addition, teachers will examine the use of multiple methods for measuring student growth and understanding. (Also offered as ESEC 650B. Students may not receive credit for both.) Prerequisite or corequisite: EELB 650A or ESEC 650A. (4 units)

652. Service Learning in Public Schools

Study of service learning, a pedagogy that integrates academic curriculum with community service. Examines the principles and best practices of including service learning in classrooms. Includes a field component. (Also offered as ESEC 652. Students may not receive credit for both.) (4 units)

653. Supervision and Mentoring of Classroom Teachers

Emphasizes the skills needed to support and mentor teachers as outlined in the California Standards for the Teaching Profession. (Also offered as ESEC 653. Students may not receive credit for both.) (4 units)

654. Internship Seminar II: Advanced Curriculum and Instruction for a Diverse Society

Seminar for BCLAD interns focusing on knowledge, skills and attitudes required for a first year teacher. Included is developing curriculum and instruction for English Language Learners. Key issues and concepts to be implemented in dual language classrooms include the following: first and second language acquisition theories; enrichment versus deficit models of schooling; role of verbal interaction in the classroom; bilingual education; English language development (ELD) and specially designed academic instruction in English (SDAIE). Other issues include historical, legal, and educational foundations of bilingual education, organizational models and instructional approaches. Fulfills the credential requirement for EELB 333 or 554. Prerequisites: admission into the BCLAD Credential and M.A. in Education Language, Literacy and Culture (Primary Language) Option. (4 units)

655. Internship Seminar III: Advanced Literacy and Second Language Acquisition in the Elementary School

Continuation of EELB 646 which extends the study of literacy development. Emphasis on approaches to English language development (ELD), planning for both language and content instruction, literacy in the content areas, development of strategies for working with preliterate students, and transfer of literacy skills from first to second language. In addition, a graduate research project will be required that focuses on acquiring English as a second language at the intermediate grade levels. Requires a six-hour field component in a setting approved by the instructor if not concurrently enrolled in supervised intern teaching (EELB 455A and 455B). (4 units)

656. Internship Seminar IV: Ethics and Legal Aspects of Teaching — Capstone

Seminar for BCLAD Interns focusing on knowledge, skills and attitudes required for a first year teacher. Includes discussion of the issues in continuing development of the teaching work and experiences; and continuing development of the teaching portfolio. Also focuses on the legal and ethical aspects of teaching. Prerequisite: admission to the Multiple Subject BCLAD Credential program. (4 units)

662. School Curriculum

History, organization and operation of American K-12 schools; curriculum trends; recent practices in K-12 education. Formerly EELB 622 and 640. (Also offered as ESEC 662. Students may not receive credit for both.) (4 units)

664. Thesis/Project Design in Curriculum and Instruction

Steps and processes involved in the design and development of research proposals with emphasis on master's thesis/project. (Also offered as ESEC 664. Students may not receive credit for both.) Formerly EELB 698. Prerequisites: completion of all core and required program courses in the M.A. in Education, Curriculum and Instruction Option. (2 units)

680. Practicum in Teaching English as a Second Language

Simulation and classroom-based practice in teaching methods and materials to include planning, teaching performance, classroom organization, student management, and evaluation competencies. Formerly EELB and ESEC 680A. Prerequisites: (for CLAD certificate program only) EELB 321, or EESL 536, or ESEC 321; EELB 333 and 511 or ESEC 333 and 511. May be taken concurrently with ESEC 605. (4 units)

697. Implementing Educational Change

Seminar examining the relationships and techniques involved when teachers plan for educational change. The emphasis will be on change theory in the K-12 school setting. (Also offered as ESEC 697. Students may not receive credit for both.) Prerequisites: completion of all COE core courses; curriculum and instruction core courses, eight units of emphasis area and appropriate elective units. (4 units)

COURSE OFFERINGS IN ENGLISH AS A SECOND LANGUAGE (EESL)

Upper Division**521. Computer-Assisted Language Learning**

Survey of theory and practice in teaching English to speakers of other languages by means of computer applications including the internet, CD-ROM and multimedia-based software. Three hours lecture and two hours activity. (4 units)

536. Crosscultural Teaching

Methods and teaching techniques for teaching in multicultural and crosscultural settings in both ESL and EFL contexts. Developing cultural awareness of teachers to assist them in relating to and motivating culturally diverse students. May be offered through distance learning. Formerly EELB 536. (4 units)

544. Reading Methods for TESOL

Reading methods for English language learners, featuring literacy transfer from the first language, explicit instructions in phonetics, and emergent literacy for adults. (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

607. Principles and Practice in TESOL

Second language acquisition theory, methods for teaching English as a second language (ESL), development and evaluation of materials for ESL instruction. Formerly EELB 607. (4 units)

613. Cognition and Language Acquisition

An analysis of the language acquisition process as it emerges from the early grammars of the child and develops into the complex grammatical structures and patterns of the mature individual. Formerly EELB 613. (4 units)

614. Curriculum Design in TESOL

Overview of school curricula and programs in the field of teaching English to speakers of other languages including development and evaluation of materials for ESL/EFL instruction. May be offered through distance learning. (4 units)

615. Research in TESOL

Offers a perspective on current research principles and investigation across a wide spectrum of topics in teaching English to speakers of other languages, including communicative competence, transfer, modalities of language use, learning styles and strategies, and language acquisition. (4 units)

679. Fieldwork: Teaching English to Speakers of Other Languages

Supervised field work in selected teaching methods and materials development. Formerly EELB 679A and ESEC 679A. Prerequisite: consent of advisor. (4 units)

COURSE OFFERINGS IN ENVIRONMENTAL EDUCATION (EENV)

Upper Division**542. Seminar in Environmental Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

635. Environmental Education in the Curriculum

An introductory course on integrating into the curriculum environmental concepts and values concerning the relationship of people with their natural and physical surroundings. Review of curricula, conceptual frameworks, resources and methods. (4 units)

642. Developing the Curriculum Through Outdoor Education

Procedures and instructional materials for teaching out of doors and the integration of environmental education into the curriculum. Includes program development for resident outdoor school. Prerequisite: EENV 635. (4 units)

643. Community Resources for Environmental Education

Application of teaching resources and environmental issues. Survey of resource agencies. Organized visits to educational sites. Prerequisite: EENV 635. (4 units)

670. Topics in Environmental Education

Techniques, topics and relevant issues in environmental education. May be repeated for credit as topics change. Prerequisite: EENV 635.

- A. Current Issues (2 units)
- B. Readings in Environmental Education (2 units)
- C. Outdoor Studies (2 units)
- D. Laboratory Science Applications (2 units)
- E. Language Arts Applications (2 units)
- F. Social Studies Applications (2 units)
- G. Technology Applications (2 units)
- H. Arts Applications (2 units)
- J. Environmental Ethics (2 units)
- K. Selected Topics (2 units)
- L. Nature Study Applications (2 units)
- M. Plant Study Applications (2 units)
- N. Animal Study Applications (2 units)
- P. Marine Science Applications (2 units)

679. Fieldwork: Environmental Education

Field experience in environmental education. May be repeated for a total of eight units. Prerequisites: EENV 635 and consent of program coordinator. (4 units)

COURSE OFFERINGS IN READING EDUCATION (ERDG)

Upper Division**542. Seminar in Reading Education**

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

612. Reading Recovery Theoretical Seminar for Teacher Leaders I

Literacy theory that supports Reading Recovery including study of emergent literacy, language and learning, and of reading and writing processes as they relate to early readers. Examination of current research and observed practices. Prerequisite: EADV 610A. (4 units)

613. DLL Reading Recovery Theoretical Seminar for Teacher Leaders I

Literacy theory that supports Reading Recovery including study of emergent literacy, language and learning, and of reading and writing processes as they relate to early readers. Examination of current research and observed practices. Prerequisite: EADV 611A. (4 units)

614. Reading Recovery Theoretical Seminar for Teacher Leaders II

Literacy theory that supports Reading Recovery including study of emergent literacy, language and learning, and of reading and writing processes as they relate to early readers. Examination of current research and observed practices. Prerequisite: ERDG 612. (4 units)

615. DLL Reading Recovery Theoretical Seminar for Teacher Leaders II

Literacy theory that supports Reading Recovery including study of emergent literacy, language and learning, and of reading and writing processes as they relate to early readers. Examination of current research and observed practices. Prerequisite: ERDG 613. (4 units)

616. Reading Recovery Theoretical Seminar for Teacher Leaders III

Literacy theory that supports Reading Recovery including study of emergent literacy, language and learning, and of reading and writing processes as they relate to early readers. Examination of current research and observed practices. Prerequisite: ERDG 614. (4 units)

617. DLL Reading Recovery Theoretical Seminar for Teacher Leaders III

Literacy theory that supports Reading Recovery including study of emergent literacy, language and learning, and of reading and writing processes as they relate to early readers. Examination of current research and observed practices. Prerequisite: ERDG 615. (4 units)

620. Foundations of Reading and Writing

Examination of theories of how children learn to read and write. (4 units)

622. Basic Materials and Approaches to Reading and Writing

Investigating, creating and making critical judgments about curriculum approaches and materials, including software, appropriate to different theoretical perspectives. Prerequisites: ERDG 620, 640 and 658. (4 units)

624. Socio-psycholinguistics and Literacy

Social and linguistic processes of literacy learning and the implications for instruction. Prerequisites: ERDG 620, 622, 625, 631, 632, 640, 642, 643 and 658. (4 units)

625. Practicum in Reading and Writing

Supervised application of reading and writing strategies with children at two or more reading levels in grades 1-3 in individual and small group settings. Prerequisites: ERDG 620, 622, 640, 642 and 658. (4 units)

629. Special Topics in Literacy

Relevant issues, techniques and topics in literacy. May be repeated for credit as topics change. Prerequisite: ERDG 620. (2 units)

630. Practicum for Leadership in Reading and Writing

Investigation of the various roles of leadership, including clinical skills required for work at site and district levels in reading and writing. Prerequisites: ERDG 620, 622, 624, 625, 631, 640, 642, 643 and 668 and permission of coordinator. (4 units)

631. Curriculum Perspectives in Reading and Writing

Examination of theoretical approaches that affect reading and writing curriculum. Prerequisites: ERDG 620, 622, 625, 640, 642 and 658. (4 units)

632. Assessment/Evaluation in Reading and Writing

Review of formal and informal reading and writing assessment instruments, methods of data collection, and analysis. Prerequisites: ERDG 620, 622, 625, 640, 642, and 658. (4 units)

633. Multi-modal Meaning Systems in Literacy

How various meaning systems, including the arts, affect literacy learning. Prerequisite: ERDG 620. (4 units)

640. Early Reading: Assessment and Intervention

Investigation of reading intervention assessments and strategies appropriate for use in the primary classroom. Prerequisites: ERDG 620 and 658. (4 units)

641. Multicultural Perspectives and Issues of Literacy

Understanding multicultural perspectives and issues within the contexts of literacy with diverse populations. Prerequisite: ERDG 620. (4 units)

642. Images of Culture through Children's Literature

Review of children's literature of diverse cultures and organizing this literature for curriculum implementation. Exploration of concepts of diversity and culture as they affect literacy learning. Prerequisites: ERDG 620 and 658. (4 units)

643. Critical Issues in Intermediate Reading and Writing

Critical issues that affect the teaching of reading and writing to students in grades 4-8. Prerequisites: ERDG 620, 622, 625, 631, 632, 640, 642 and 658. (4 units)

658. Literacy and Language Processes

Methods for integrating the language development processes that underlie effective literacy curriculum. Prerequisite: ERDG 620. (4 units)

679. Field Work: Reading/Language Arts Specialist

Field experiences including demonstration of leadership roles in curriculum planning, inservice presentations and professional development. Graded credit/no credit. Prerequisites: ERDG 620, 622, 624, 625, 630, 631, 632, 640, 642, 643, 658, and permission of reading program coordinator. (4 units)

COURSE OFFERINGS IN SECONDARY EDUCATION (ESEC)

Upper Division**510. Teaching English as a Second Language in Secondary Schools**

Offers a broad overview of approaches and methods used in language teaching, but will focus specifically on practices that can support the development of English language proficiencies needed for success in secondary schools. Prerequisites: ESEC 321 and 333. (4 units)

511. Theory and Practice for English Language Development (ELD)

Study and practice of the design, implementation and assessment of a communication-based curriculum for the English language learners in all stages of second language development. Includes selection and use of appropriate ELD strategies and materials. (Also offered as EELB 511. Students may not receive credit for both.) Prerequisites: EELB 321, EESL 536 or ESEC 321; and EELB 333 or ESEC 333. (4 units)

515. Issues and Trends in Secondary Education

Examination of issues and trends in secondary education. May be repeated with consent of advisor. Prerequisite: consent of advisor. (2 units)

523. Mainstreaming Exceptional Students in the Secondary Classroom

Addresses the needs of exceptional students in the mainstreamed secondary school classroom. Current research, practice and legislation will be examined as they apply to the secondary school teacher and students. Formerly ESEC 602N. (2 units)

542. Seminar in Secondary Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

545. Adolescents Literacy Tutoring

Tutor training for students to work with low literacy and at-risk adolescents in reading. Topics include literacy methods, multicultural issues, learning disabilities and use of educational software. 20 hours lecture and 48 hours of tutoring an adolescent in a field-based setting. Prerequisite: consent of instructor. (4 units)

554. Internship Seminar I

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first-year teacher. Prerequisite: admission to Single Subject Teaching Credential Internship Track. (2 units)

555. Internship Seminar II

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Prerequisite: ESEC 554. (2 units)

556. Internship Seminar III

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Prerequisite: ESEC 555. (2 units)

560. Study Skills for Secondary School

Programs, methods and materials for teaching study skills to exceptional junior and senior high school students. Study strategies include: note taking, organization, memory devices, study contracts and preparation for examinations. (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

602. Special Topics in Secondary Education

Exploration, demonstration and application of issues and techniques in selected topics of current concern in secondary education (such as, inquiry-discovery teaching, simulations and games, alternate education programs, consumer education, team teaching, career education, teacher as counselor). May be repeated for credit as topics change. (2 units)

605. Curriculum for Specially Designed Academic Instruction in English (SDAIE)

Study and practice of the design, implementation, and assessment of specially designed academic instruction in English (SDAIE). Includes selection and use of appropriate SDAIE strategies and materials. Formerly a topic under ESEC 602. (Also offered as EELB 605. Students may not receive credit for both.) Prerequisites: EELB 321, EESL 536, or ESEC 321; EELB 333 or ESEC 333; and EELB 511 or ESEC 511. (2 units)

617. Middle School Curriculum and Instruction

Examination of middle school curriculum design and instructional practices. Formerly ESEC 517. (4 units)

620. Advanced Educational Psychology

Advanced seminar exploring recent theory and research on cognition, personality, and psychosocial development with an emphasis on examining their interactions with the learning process. (Also offered as EELB 620. Students may not receive credit for both.) Prerequisite: an upper-division child development course. (4 units)

621. Instructional Strategies and Approaches to Middle Grade

Instructional methods, techniques and evaluation procedures especially appropriate for middle schools. Formerly ESEC 521. (4 units)

622. Practicum in Middle Grade Education

Practicum for middle grade philosophies, objectives, and functions. Formerly ESEC 522. Prerequisites: ESEC 443, 617 and 621. (4 units)

623. Foundations of Middle School Education

History and philosophical foundations of middle school education; examination of theories and research related to middle school students, curriculum, programs and practices. (4 units)

624. Advanced Teaching Methodology

Development of various advanced teaching methods as well as self and peer coaching for the improvement of teaching. Formerly ESEC 516. (Also offered as EELB 624. Students may not receive credit for both.) (4 units)

633. Comprehensive Evaluation in Curriculum and Instruction

Review and preparation for the written comprehensive examination as well as the administration of the comprehensive examination. (Also offered as EELB 633. Students may not receive credit for both.) Graded credit/no credit. Prerequisites: advancement to candidacy and permission of program coordinator. (2 units)

644. Educational Assessment in K-12 Schools

Development and utilization of educational assessment techniques to obtain reliable and useful information to document student achievement in K-12 schools. Includes the study of traditional assessment measures as well as authentic assessment and outcome-based methods. (Also offered as EELB 644. Students may not receive credit for both.) (4 units)

648. Advanced Topics in Teaching Middle School Science

Current resources, techniques, research, curricula, and technology specific to teaching science to early adolescents. Three hours lecture and two hours science laboratory activities. (4 units)

649. Advanced Topics in Teaching Sciences at the High School Level

Current resources, techniques, research, curricula and technology specific to the science content areas in the high school curriculum. Three hours lecture and two hours science laboratory activities. (4 units)

650. Professional Teacher Development

- A. Seminar A: Designed to support teachers pursuing National Board Certification. Teachers will review research of effective teaching strategies and examine their own practice as a foundation for effective decision making. Emphasis on student learning and development, student motivation, and the influence of context and culture on student learning and behavior. In addition, teachers will examine subject matter knowledge including how disciplinary knowledge is created, organized, linked to other disciplines, and applied to real world settings. (Also offered as EELB 650A. Students may not receive credit for both.) (4 units)
- B. Seminar B: Assists teachers pursuing National Board Certification. Examines instructional settings and techniques designed to capture and sustain student interest and ensure academic success. In addition, teachers will examine the use of multiple methods for measuring student growth and understanding. (Also offered as EELB 650B. Students may not receive credit for both.) Prerequisite or corequisite: EELB 650A or ESEC 650A.) (4 units)

652. Service Learning in Public Schools

Study of service learning, a pedagogy that integrates academic curriculum with community service. Examines the principles and best practices of including service learning in classrooms. Includes a field component. (Also offered as EELB 652. Students may not receive credit for both.) (4 units)

653. Supervision and Mentoring of Classroom Teachers

Emphasizes the skills needed to support and mentor teachers as outlined in the California Standards for the Teaching Profession. (Also offered as EELB 653. Students may not receive credit for both.) (4 units)

662. School Curriculum

History, organization and operation of American K-12 schools; curriculum trends; recent practices in K-12 education. Formerly ESEC 699. (Also offered as EELB 662. Students may not receive credit for both.) (4 units)

664. Thesis/Project Design in Curriculum and Instruction

Steps and processes involved in the design and development of research proposals with emphasis on master's thesis/project. (Also offered as EELB 664. Students may not receive credit for both.) Prerequisites: completion of all core and required program courses in the M.A. in Education, Curriculum and Instruction Option. (2 units)

666. Techniques and Applications of Mathematics Education

Applications of theory in mathematics teaching including materials development in the design and implementation of mathematics instruction, audiovisual technology, computer-assisted instruction, and nontraditional curricula. Focus on techniques in pre-algebra, algebra, geometry, analytic geometry, trigonometry and pre-calculus. (4 units)

672. Educational Assessment in Mathematics Teaching

Program and learner assessment in mathematics using curriculum evaluation, testing, and evaluation systems for the purpose of improving instruction through problem diagnosis, intervention and redesign. (4 units)

678. Mathematics Clinic for Secondary Education

Administration of diagnostic instruments and assessment procedures to secondary school students followed by prescription and initiation of remedial instruction to strengthen mathematics skills. (4 units)

680. Practicum in Teaching English as a Second Language

Simulation and classroom-based practice in teaching methods and materials to include planning, teaching performance, classroom organization, student management, and evaluation competencies. Formerly EELB 680A and ESEC 680A. Prerequisites: (for M.A. in Education, Teaching English as a Second Language Option) consent of advisor; (for CLAD certificate program only) EELB 321, or EESL 536, or ESEC 321; EELB 333 and 511 or ESEC 333 and 511. May be taken concurrently with ESEC 605. (4 units)

697. Implementing Educational Change

Seminar examining the relationships and techniques involved when teachers plan for educational change. The emphasis will be on change theory in the K-12 school setting. (Also offered as EELB 697. Students may not receive credit for both.) Prerequisites: completion of all COE core courses; curriculum and instruction core courses, eight units of emphasis area and appropriate elective units. (4 units)

COURSE OFFERINGS IN SPECIAL EDUCATION (ESPE)

Upper Division**523. Mainstreaming Handicapped Individuals in the Elementary Classroom**

Introduction to the adaptation of curriculum, methods and materials necessary for accommodating exceptional individuals in the regular elementary classroom. (2 units)

529. Introductory Methods for Special Education

Instruction in positive classroom and behavior management, effective teaching skills, modification of core curriculum, assessment techniques, IEP development, and relationships with other professionals. (4 units)

530. Psychology and Education of Exceptional Individuals

Characteristics and educational implications of physical, intellectual, social and emotional deviations among exceptional individuals. Ethical and legal aspects of special education. Observations in educational settings. (4 units)

532. Introduction to Teaching Individuals with Exceptional Needs

Learning characteristics of individuals with handicaps related to educational procedures and intervention strategies. Study and observation of education and intervention theory and practices. Prerequisite: ESPE 530 or consent of instructor. (4 units)

538. Introduction to Teaching the Gifted and Talented

Definition, characteristics and development of the gifted and talented individual. Identification procedures. Current legislation and educational practices. Eight hours of class and activities weekly. Prerequisite: consent of instructor. (4 units)

539. Programs for Teaching the Gifted and Talented

Development of school programs for gifted and talented: identification, objectives, scheduling, curriculum, materials and program assessment. Prerequisites: ESPE 538 and consent of instructor. (4 units)

540. Strategies for Remedial Teaching

Methods of diagnosing needs, teaching basic subjects; organizing curriculum, and controlling behavior of low achieving students in the regular elementary classroom. (4 units)

542. Seminar in Special Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

609. General and Special Education Field Experiences

Supervised field experiences in appropriate program topics. Requires a minimum of 120 hours field experience in the appropriate education setting. Includes general education experiences. All course work for Level I Preliminary Education Specialist Credential must be completed prior to enrollment in field experience or one course may be taken concurrently with consent of program coordinator. Student must meet subject matter competency requirement to be eligible for field experience. Application is required one quarter in advance of enrollment. Contact the Department of Special Education for additional information regarding application.

- A. Mild/Moderate Disabilities. Prerequisites: (for elementary) EELB 331 or PSYC 320; EELB 332; 441; and 445 or 446; (for secondary) ESEC 332; EELB 441; ESEC 443 or PSYC 320; ESEC 445; ESPE 529, 530, 624, 637, 655, 656 and consent of program coordinator. (8 units)
- C. Moderate/Severe Disabilities. Prerequisites: (for elementary) EELB 331 or PSYC 320, EELB 332; 441; 445 or 446; (for secondary) ESEC 332; EELB 441; ESEC 443 or PSYC 320; ESEC 445; ESPE 529, 530, 624, 637, 655, 656 and consent of program coordinator. (8 units)

624. Managing Learning and Social Communities

Designed to provide strategies for managing the classroom, handling individual behavior problems, developing student autonomy, preventing classroom disruptions and maintaining a positive learning environment. Provides a practical knowledge base and management strategies for serious problem behavior and appropriate intervention procedures. Prerequisites: ESPE 529 and 530. (4 units)

626. Curriculum Development for Individuals with Physical Handicaps

Strategies and implications for teaching physically handicapped children and youth in mainstream and special education settings. (4 units)

630. Topics in Research in Teaching and Learning

Survey of current research in teaching and learning. Prerequisite: consent of instructor.

- A. Gifted and Talented (4 units)
- B. Special Education (4 units)

633. Reflective Inquiry Seminar and Induction Plan

Initial professional Level II course for the special education credential. Designed to culminate the content completed in Level I courses and to establish the induction plan; the concluding activity is the Individualized Induction Plan (IIP). The IIP is completed in collaboration with student, university, and local education agency. Twenty hours of fieldwork required. Prerequisites: completion of Level I requirements and consent of program coordinator. (4 units)

635. Effective Communication with Professionals and Families

Develop effective communication skills to foster an atmosphere of collaboration among professionals and families, to support quality programs for students with disabilities. Models for collaboration and consultation will be explored. Formerly ESPE 535. Prerequisites: Level I Preliminary Education Specialist Instruction Credential and ESPE 633. (4 units)

637. Assessment and Evaluation

Techniques for identification and assessment for general and special education. Gathering diagnostic information in academic, social-emotional, language, and perceptual-motor areas for program preparation and implementation. Formerly ESPE 681. Prerequisites: ESPE 529 and 530. (4 units)

644. Problems in Educational Assessment

Teacher-made tests, standardized tests and other published instruments of use in assessing growth in the affective, psychomotor and cognitive domains. (4 units)

646. The Resource Specialist in Special Education

Development and evaluation of consultation and coordination procedures for the special education resource specialist. Prerequisites: ESPE 630B and special education specialist credential or consent of instructor. (4 units)

649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation

Methods, materials and strategies for facilitating career, vocational and adult skills development in learners with disabilities. Interfacing with agencies and other support providers in the transition from secondary programs to adult life. Formerly ESPE 684B. Prerequisites: Level I Preliminary Education Specialist Credential and ESPE 633. (4 units)

651. Curricular Strategies for Students with Moderate/Severe Disabilities

Assessment, procedures and instructional strategies for learners with Moderate/Severe disabilities. Emphasis placed upon data-based, functional instruction. A 20-hour practicum will be required. Formerly ESPE 668A. Prerequisites: ESPE 529, 530, 624 and 637. (4 units)

652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities

Principles of systematic instruction to community-based instruction, functional academics, language training, and social skills training. Application of computer and other technology to learners with severe handicaps. A 20-hour practicum will be required. Formerly ESPE 668C. Prerequisites: Preliminary Level I Education Specialist Credential: Moderate/Severe and ESPE 633. (4 units)

653. Medical, Physical and Social Aspects of Education of Learners with Moderate/Severe Disabilities

Responsibilities of educators in medical, physical and social areas. A 20-hour practicum will be required. Formerly ESPE 688. Prerequisites: ESPE 529, 530, 624, 637, 651 and 652. (4 units)

655. Curriculum and Methods in Special Education: Language Arts

Methods, materials and strategies for exceptional learners in the areas of language arts: reading, writing, speaking and listening. Formerly ESPE 684A. Prerequisites: ESPE 529, 530, 624, and 637. (4 units)

656. Curriculum and Methods in Special Education: Core Subjects

Methods, materials and strategies for designated subject areas with particular emphasis on adapting and modifying curriculum from general education frameworks for students with mild/moderate special needs. Formerly ESPE 684C. Prerequisites: Preliminary Level I Education Specialist Credential: Mild/Moderate. (4 units)

657. Seminar on Mild/Moderate Disabilities

Synthesis and application of information on assessment, instruction, development and delivery of quality instruction, providing instruction and appropriate support for use in regular education settings. Formerly ESPE 683. Prerequisites: ESPE 529, 530, 624, 637, 655 and 656. (4 units)

660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs

Critiques basic concepts and theories related to this special population. Includes cultural characteristics, cultural transmission, acculturation and second language acquisition, particularly as they relate to assessment, instructional programming, parent involvement strategies and collaboration with service providers for students with disabilities. Prerequisites: ESPE 529, 530, 624, and 637. (4 units)

665. Teaching Methods for Preschool Handicapped Children

Strategies and techniques for teaching early childhood special education in a variety of settings. Special consideration of the family in the process of educating preschool children with disabilities. Prerequisites: ESPE 529, 530, 539, 624 and 637. (4 units)

679. Special Education Fieldwork

Supervised field experiences in special education. Requires a minimum of 80 hours field experience in the appropriate setting. All course work for Level II Professional Clear Education Specialist Credential must be completed prior to enrollment in field experience or one course may be taken concurrently with consent of program coordinator. Application is required one quarter in advance of enrollment. Contact the Department of Special Education for additional information regarding application.

- A. Mild/Moderate Disabilities I. To be taken only by students who hold a California Preliminary/Professional Clear Multiple Subject or Single Subject Credential. Prerequisites: ESPE 529, 530, 624, 637, 655, 656 and consent of program coordinator. (4 units)
- B. Mild/Moderate Disabilities II. Prerequisites: California Preliminary/Professional Clear Multiple Subject or Single Subject Credential or Level I Preliminary Education Specialist Credential; ESPE 633, 635, 649, and 660, and consent of program coordinator. (4 units)
- C. Moderate/Severe Disabilities I. To be taken only by students who hold a California Preliminary/Professional Clear Multiple Subject or Single Subject Credential. Prerequisites: ESPE 529, 530, 624, 637, 651, 652 and consent of program coordinator. (4 units)
- D. Moderate/Severe Disabilities II. Prerequisites: California Preliminary/Professional Clear Multiple Subject or Single Subject Credential or Level I Preliminary Education Specialist Credential; ESPE 633, 635, 649, and 660, and consent of program coordinator. (4 units)
- E. Resource Specialist. Prerequisite: Special Education Specialist Credential. Prerequisite or corequisite: ESPE 646. (4 units)

680. Intern Teaching: Special Education

- A. Supervised full-time teaching under the Mild/Moderate Intern Credential. Must be repeated for a total of 48 units. Graded credit/no credit. Prerequisite: admission to the Learning Handicapped Intern Program. (8 units)
- B. Supervised full-time teaching under the Moderate/Severe Intern Credential. Must be repeated for a total of 48 units. Graded credit/no credit. Prerequisite: admission to the Severely Handicapped Intern Program. (8 units)

685. Advanced Behavior Management

Advanced techniques for teaching students with serious problem behaviors including crisis management and other interventions derived from psychodynamic, psychoeducational, behavioral, cognitive and social learning theory. Field study experience required. Prerequisites: ESPE 530, 620, 635, 637, 640, 679A, 679C, or consent of instructor. (4 units)

691. Issues and Trends in Special Education

Specialized in-depth study of selected topics in special education. Field study experience included. Prerequisites: ESPE 529, 530, 624, and 637.

- A. Current Issues (4 units)
- B. Collaboration and Consultation (4 units)
- C. Early Childhood (4 units)
- D. Instructional Technologies (4 units)
- E. Administration (4 units)
- F. Historical (4 units)
- G. Special Populations (4 units)
- H. Transition (4 units)
- J. Post Secondary (4 units)

COURSE OFFERINGS IN INSTRUCTIONAL TECHNOLOGY (ETEC)

Upper Division**500. Foundations in Instructional Technology**

Introduction to instructional technology and its foundations. Includes electronic media, video, computer platforms, operating systems, networks, multimedia, and laser technology in educational and corporate training environments. Formerly ETEC 547. (4 units)

537. Introduction to Computer Technology in Education

Operations, terminology and components of computing systems are introduced. Emphasis is on applications including word processing, data base and spreadsheet. No programming or previous computer experience required. May not be taken for credit by students who have received credit for CSCI 127. One hour lecture and two hours laboratory. Meets Level I competencies for the clear credential. (2 units)

542. Seminar in Instructional Technology

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

544. Construction of Instructional Materials

Various ways to design and produce instructional materials. Emphasis on use and evaluation of media to meet instructional objectives and to interface with emerging technology. (4 units)

546. Computer Based Technology in Education

Introduction to computer applications, computer-based technology, computer-assisted instruction, programming and authoring languages, and teacher utility programs in educational settings. Meets Level IIB competencies for the clear credential. Three hours lecture and two hours laboratory. Prerequisite: ETEC 537. (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

605. Computers and Learning

The design of courseware and use of computer-based technology in educational settings as related to appropriate learning theories. Formerly EDUC 551 and ETEC 651. Prerequisites: EELB 332 or ESEC 332 (or equivalent) and ETEC 546. (4 units)

609. Developing Computer-Based Instructional Materials

Introduction to educational uses of authoring systems in the curriculum. Design and development of instructional materials using an authoring program. Formerly EDUC 553 and ETEC 653. Three hours lecture and two hours laboratory. Prerequisite: ETEC 605. (4 units)

611. Media, Instructional Strategies and Design

Integration of media into instruction with emphasis on teaching strategies, principles of learning, media management and design. Formerly ETEC 641. (4 units)

612. Seminar for Media Resource Personnel

Directed experiences in media and video instructional design, including goal analysis, instructional strategies, evaluation techniques, and delivery of instruction using media technology and distance learning technology. Formerly ETEC 548. Prerequisite: ETEC 611. (4 units)

621. Reading/Language Arts with Technology Integrations

Using technology to enhance teaching of literacy and language. Emphasis is on building curriculum that effectively uses computers and other technology. Staff development and leadership in designing models of integration into language arts will be explored. Three hours lecture and two hours laboratory. Prerequisite: ETEC 546 or equivalent. (4 units)

623. Technology in School Administration and Counseling

Assisting school administrators and counselors in developing the knowledge and skills needed to apply computer technology to school and student management, grades K-12. (4 units)

634. Information Systems in Education

Information systems providing history, current development and future potential of on-line and off-line data bases. Methods of search and retrieval of on-line and off-line information will be explored. Three hours lecture and two hours laboratory. (4 units)

674. Telecommunications in Education

Telecommunications for instruction and research within the learning environment. Public and commercial Bulletin Board Systems, commercial and cable TV, commercial and public radio will be investigated in relation to current and future education uses. (4 units)

675. Instructional Graphics

Graphics for instructional resources, including elements of graphic design and preparation for different media. Visual design of data, both video and text. Three hours lecture and two hours laboratory. (4 units)

682. Interactive Multimedia

Interactive video, simulation and games, robotics and authoring systems will be analyzed. Techniques for applying systems to instructional situations will constitute projects in this course. Three hours lecture and two hours laboratory. (4 units)

691. Advanced Computer Applications in Education

Current uses and future trends in computer-based educational technologies. Integration of these technologies into subject area and grade level curricula. Formerly EDUC 552 and ETEC 652. Three hours lecture and two hours laboratory. Prerequisite: ETEC 546. (4 units)

692. Practicum for Computer Resource Personnel

Management of educational computing resources. Principles of adult learning and effective inservice education. Application of advanced curriculum development and evaluation theory. Weekly seminars and directed experiences in school computer laboratory setting required. Prerequisites: ETEC 651 and 652. (4 units)

COURSE OFFERINGS IN VOCATIONAL EDUCATION (EVOC)

Upper Division**501. Principles and Methods for Teaching Designated Subjects**

Application of instructional methodology for designated subjects with emphasis on student performance objectives, lesson planning, teaching methods, educational materials, and evaluation techniques. (4 units)

502. Instructional Support for Teaching Designated Subjects

Examination of instructional support for designated subjects with emphasis on program advisory committees, student placement, facilities planning, budgeting, student organizations, public relations, career advancement and educational philosophy. Prerequisite: EVOC 501 or consent of instructor. (4 units)

503. Contemporary Issues in Teaching Designated Subjects

Examination of contemporary issues in designated subjects with emphasis on individual education plans, basic skills, school law, multicultural activities, special needs students, safety and performance assessment instruments. Prerequisite: EVOC 501 or consent of instructor. (4 units)

504. Principles of Adult Education

History, philosophy and social significance of adult education, especially in California; the adult as a student; investigation of the theories and application of the principles of adult education. (4 units)

508. Organization and Structure of Designated Subjects Programs

Investigation and application of principles of facility planning, budgeting, funding sources and related topics as they apply to designated subjects instructional programs. Prerequisite: a valid designated subjects teaching credential. (4 units)

509. Personnel Management in Designated Subjects Programs

Principles of personnel selection, evaluation, supervision, school law and related topics as they apply to designated subjects instructional programs. Prerequisite: a valid designated subjects teaching credential. (4 units)

510. Field Work in Coordination and Supervision of Designated Subjects Programs

Supervised field work in coordination and supervision of designated subjects programs. Students will contract to perform administrative tasks related to site-based instructional programs. Prerequisites: a valid designated subjects teaching credential and completion of, or concurrent enrollment in EVOC 508 and 509 or consent of instructor. (4 units)

518. Field Work in Designated Subjects

Supervised field work for the Designated Subjects Teaching Credential. Includes lesson planning and instructional delivery in an actual teaching environment with evaluation of teaching performance by the on-site supervisor. Prerequisites or corequisites: EVOC 501 and consent of instructor. (4 units)

519. Computer Applications for Vocational Education Teachers

Application of personal computers to the preparation of written, graphic, data base, telecommunication and interactive media materials used by teachers of vocational, occupational and professional courses. Three hours lecture and two hours laboratory. (4 units)

520. Curriculum Development in Vocational Education

Theory and principles of curriculum development as they apply to vocational, occupational and professional courses. Students will develop a complete curriculum for a course that they could teach. Prerequisite: EVOC 501 or its equivalent. (4 units)

521. Assessing Vocational Student Progress

The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Prerequisite: EVOC 520 or consent of instructor. (4 units)

522. Directing and Managing Occupational Programs

Principles and techniques of design, implementation, management and evaluation of training organizations and programs. Prerequisite: EVOC 520, MGMT 302 or PSYC 302. (4 units)

523. Learning Theory and Instructional Research Applied to Adult Learners

Application of psychological principles to learning processes relevant to adult learners. Focus is on informed decisions about psychoeducational designs which will maximize individual development in cognitive, affective, conative, and psychomotor areas. (4 units)

542. Seminar in Vocational Education

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

637. Foundations of Vocational Education

Historical context, philosophy and development of vocational education. Prerequisite: graduate standing. (4 units)

638. Critical Issues for the Professional Vocational Educator

Current legislation, program planning, professional development and current issues in vocational education. Prerequisite: EVOC 637 or consent of instructor. (4 units)

639. Professional Competencies in Vocational Education

Roles of professional organizations, research in vocational education, grant writing and strategies for project evaluation. Prerequisite: EVOC 638 or consent of instructor. (4 units)

Note: Additional information about all EVOC courses is posted on the program web site at:
[HTTP://VE.CSUSB.EDU](http://ve.csusb.edu)

EDUCATIONAL ADMINISTRATION

Master of Arts in Educational Administration

Masters Program Office

Faculty Office Building, Room 124
880-7404

FACULTY: Cheryl Fischer, Kenneth Lane, Deborah Stine

MASTER OF ARTS IN EDUCATIONAL ADMINISTRATION

Requirements (45 units)

Admission to the Program

In addition to the general requirements of the university for admission as a postbaccalaureate student, specific requirements for admission to the Master of Arts in Educational Administration are:

1. An application for admission to the program must be submitted;
2. A valid California teaching, pupil personnel or health services credential or evidence of eligibility;
3. A cumulative grade point average of 3.0 ("B") in all courses taken in education;
4. One year of full-time teaching, substitute teaching does not apply;
5. Successful completion of the California Basic Educational Skills Test (CBEST);
6. Completion of the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program. Normally, a student is expected to be working concurrently for a credential in administrative services.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Completed, with a grade point average of 3.0 ("B"), 16 quarter hours of course work, at least 12 of which must have been on this campus and approved by an advisor in the Educational Administration program;
Note: Between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.
3. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable work with 32 completed in residence at this university;
2. A minimum of 24 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of the Comprehensive Evaluation in Educational Administration (EADM 633) or Master's Thesis in Educational Administration (EADM 699);
5. The graduation writing requirement is met upon successful completion of EADM 633 and/or 699;
6. Any additional general requirements not cited above and listed on [Page 364](#).

Comprehensive Evaluation in Educational Administration (EADM 633) is designed to evaluate the student's knowledge of the field of school administration. The course is offered once each quarter and the student may enroll in the course no earlier than the last quarter in which course work is taken (excluding one section of fieldwork). The student may take the course three times. Approval to retake the course may be, at any time, contingent upon completion of additional designated courses.

Degree Requirements (45 units)

Prerequisite course (4 units)

1. EADM 601. Educational Leadership (4)

Core courses (40 units)

1. EADM 602. Research Methods in Educational Administration (4)
2. EADM 607. Policy, Politics and Community Relations (4)
3. EADM 610. Supervision of Instruction (4)
4. EADM 613. School Personnel Administration (4)
5. EADM 619. Legal Aspects of Education (4)
6. EADM 622. School Curriculum (4)
7. EADM 625. School Finance and Business Management (4)
8. Eight units chosen from one of the following courses:
EADM 628. Fieldwork in Educational Administration (4) for a total of (8)
EADM 630. Internship Fieldwork in Educational Administration (4) for a total of (8)
9. Four units chosen from:
EADM 633. Comprehensive Evaluation in Educational Administration (4)
EADM 699. Master's Thesis in Educational Administration (4)

Culminating course (1 unit)

1. EADM 636. Performance Assessment Seminar (1)

COURSE OFFERINGS IN EDUCATIONAL ADMINISTRATION (EADM)

Upper Division

511. Contemporary School Business Management

Analysis of various approaches to school business administration, current trends, models of organization and management, relationship to county, state, and federal agencies, and functions of business management in relation to the size of school districts. (4 units)

512. School Finance and Budgeting

Legal considerations in finance and budgeting, evaluation of the California school finance program, fiscal relationship to county, state and federal agencies, budget control, school revenues and expenditures and budgetary procedures and processes. (4 units)

513. School Accounts and Related Functions

School fund accounting, attendance accounting, organization and review of student body accounts, state and federal project funding, and certificated and classified payroll laws and regulations pertaining to school accounting procedures. Prerequisite: ACCT 211 (or 311) or equivalent. (4 units)

514. School Business Management and Service Functions

A variable topic course on management and service functions in the school business office. May be repeated for credit as topics change.

- A. Purchasing, Warehousing and Inventory (2 units)
- B. Risk Management (2 units)
- C. Facilities Planning, Construction (2 units)
- D. Computer Services in Business Functions (2 units)
- E. Maintenance, Operations and Transportation (2 units)
- F. Employee Supervision (2 units)

519. Legal Aspects of Classified Personnel Administration

Current laws and court decisions affecting public school education with a focus on classified personnel administration and laws of California. (4 units)

525. Classified Personnel Administration

Recruitment, selection, induction, training, evaluation and contract negotiations involving classified employees under merit and non-merit systems. (4 units)

542. Seminar in Educational Administration

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

601. Educational Leadership

Introduction to the field of school administration and leadership. Explores the theory and practice that relate to the management of schools, restructuring, safe school environment, and the public policy of federal, state, and local governance. The leadership focus will include shared decision-making, consensus building, and school climate. This course is a requisite for or can be taken concurrently with EADM 602, 607, 610, 613, 619, 622, and 625. Formerly EADM 673. Prerequisite: admission to Educational Administration program or consent of program coordinator. (4 units)

602. Research Methods in Educational Administration

Introduction to the vocabulary, design, and sources of research in the field of educational leadership including qualitative and quantitative research methods, the utilization of technology in research, and the reading and conduct of research and evaluation studies. Prerequisites or corequisites: EADM 601, and admission to Educational Administration program or permission of program coordinator. (4 units)

607. Policy, Politics and Community Relations

Techniques of working with communities, schools and agencies. Groups, including ethnic groups, professional organizations, school boards and advisory groups with attention to emerging social forces and uses of technology. Strategies of working with the press and dealing with parents as crisis management techniques and conflict resolution alternatives. Prerequisites or corequisites: EADM 601, and admission to Educational Administration program or permission of program coordinator. (4 units)

610. Supervision of Instruction

Supervision of classroom school instruction using a variety of theories and models, including clinical supervision. Planning and implementing staff development programs, and procedures of documenting classroom teacher performance. Prerequisites or corequisites: EADM 601, and admission to Educational Administration program or permission of program coordinator. (4 units)

613. School Personnel Administration

Recruitment, selection and evaluation of personnel at all levels of employment, including progressive assistance, conflict management, and file building. Laws and policy development in relationship to school district and collective bargaining. Prerequisites or corequisites: EADM 601 and admission to Educational Administration program. (4 units)

619. Legal Aspects of Education

Current laws and court decisions affecting public education with special emphasis on the laws of the State of California. Prerequisites or corequisites: EADM 601 and admission to Educational Administration program. (4 units)

622. School Curriculum

The review of curriculum development and evaluation processes; federal, state, and county implementation; curriculum trends and practices including technology; and change theory. Prerequisites or corequisites: EADM 601, advancement to candidacy or permission of program coordinator. (4 units)

625. School Finance and Business Management

Economics of school finances; evolution of the California School Finance Programs; fiscal relationship to county, state and federal agencies; school budget procedures; school accounting; financial management of categorical and special education funds; and the planning, financing and management of school facilities. Formerly EADM 511 and 512. Prerequisites or corequisites: EADM 601 and admission to the Educational Administration program. (4 units)

628. Fieldwork in Educational Administration

Field experience at the elementary or the secondary school level, coordinated with the district. For the credential, the course must be taken at the elementary and repeated at the secondary level for a total of eight units. This course consists of a minimum 120 hours of field work experience. Prerequisites: EADM 601, 604, 607, 610, 613, 619, advancement to candidacy and permission of the program coordinator. (4 units)

630. Internship Fieldwork in Educational Administration

Field experiences for students enrolled in the Preliminary Administrative Services Credential Program, Internship Option. May be repeated to a maximum of 24 units. Prerequisite: consent of program coordinator. (4 units)

633. Comprehensive Evaluation in Educational Administration

Review and preparation for the written comprehensive examination, as well as the administration of the comprehensive examination. Prerequisites: EADM 601, 602, 607, 610, 613, 619, 622, 625, and 628 or 630; advancement to candidacy and permission of program coordinator. (4 units)

636. Performance Assessment Seminar

The university faculty, field supervisors, student and knowledgeable school district personnel prepare a summative review and evaluation of candidate's growth in the program utilizing multiple assessment measures tied to the curriculum, field experiences, and domains of competence. The review is designed to assess the student's ability to perform the responsibilities of an entry-level school administrator and will include a plan for continued growth of leadership and management skills. Prerequisites or corequisites: EADM 601, 602, 607, 610, 613, 619, 622, 625, and 628 or 630; advancement to candidacy and permission of program coordinator. (1 unit)

660. Advanced Field Studies: Assessment

The student, university faculty, and selected district personnel will complete a comprehensive assessment of the candidates utilizing multiple assessment measures and develop a plan for addressing identified needs and continued personal growth. This course is a requisite for or can be taken concurrently with EADM 664, 667, 670, 672, 675, and 678. Prerequisites: admission to Professional Administrative Services Credential program and permission of the program coordinator. (3 units)

664. Principles of Leadership, Organizational Theory and Decision Making

Seminar in principles of leadership and organizational theory including a review of leadership styles, a variety of management strategies and human relations skills, dynamics of team building, and effective decision-making are also studied. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

667. Instructional Leadership for Program Development and Evaluation

Seminar in practical and theoretical issues related to leadership, including effective schools, teacher supervision and evaluation, staff development, instructional management and support, quality control, and computer technology needs of the administrator. These topics provide an opportunity for reflection and discussion on instructional leadership as it relates to program components and development, program evaluation, and evaluation designs and implementation. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

670. School Law

Seminar on the impact of education law upon the educational administrator and how it can facilitate school leadership, including the study of judicial structure and dynamics of law cases and interpretations on administrative settings. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

672. Human Resources Management

Seminar in the theory and function of personnel administration as it relates to instructional leadership in schools. School personnel law is reviewed and applied to understanding of political relationships. Fiscal management of personnel resources as related to strategic planning. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

675. School Business and Facility Management

Seminar on trends and issues in school finance with emphasis on current and innovative procedures including development of a site-based budget; fiscal issues, attendance and student activity accounting; strategic planning; and the planning and utilization of school facilities. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

678. Social and Political Issues in Education

Seminar on the political forces that propel public education at the local, state, and national levels, and the social issues that impact the operation of schools and school districts. Prerequisites: admission to Professional Administrative Services Credential program, completion of, or concurrent enrollment in EADM 660, or permission of program coordinator. (3 units)

680. Advanced Field Studies: Evaluation

Exit fieldwork structured to provide the student with an evaluation by university faculty and selected district personnel of progress on the initial program assessment plan and development of a plan for continued growth as an effective school leader. Prerequisites: admission to Professional Administrative Services Credential program, EADM 660, 664, 667, 670, 672, 675 and 678 or permission of program coordinator.
(3 units)

699. Master's Thesis in Educational Administration

Independent graduate research conducted under the direction of two program faculty members. Prerequisites: advancement to candidacy, EADM 601, 602, 604, 607, 610, 613, 616, 619, 622, 625 and 628 and permission of program coordinator.
(4 units)

ENGLISH

Master of Arts in English Composition

with concentrations in:
 English Composition
 English Literature
 Teaching English as a Second Language

Master of Arts in Education

Secondary Education - English Option
(Degree requirements can be found on Page 422.)

Department of English

University Hall, Room 334
 880-5824

FACULTY: Jennifer Andersen, Yvonne Atkinson, Mary Boland, James Brown, David Carlson, Rong Chen, Milton Clark, Cynthia Cotter, Juan Delgado, Margaret Doane, Bertram (Pete) Fairchild, Ellen Gil-Gomez, Bruce Golden, Carol Haviland, Holly Henry, Sung-Heh Hyon, Sandra Kamusikiri, Alexandria LaFaye, Lorelee MacPike, E. Clark Mayo, Susan Meisenhelder, Maureen Newlin, E. Philip Page (Chair), Elinore Partridge, Renee Pigeon, Luz Elena Ramirez, Jacqueline Rhodes, Treadwell (Ted) Ruml II, DeShea Rushing, Peter Schroeder, Wendy Smith, Salaam Yousif

MASTER OF ARTS IN ENGLISH COMPOSITION

Requirements (48 units)

The Master of Arts in English Composition is designed for students interested in pursuing studies in the fields of composition, literature and linguistics. The concentration in English Composition focuses on writing—how written texts work rhetorically and stylistically; how historical and social conditions affect what we write and how we construct meaning as we read; and how to teach people to write effectively. The literature concentration allows students an option to focus on advanced studies in literature as well as composition. The concentration in TESL emphasizes the application of current linguistic theories to ESL pedagogy and familiarizes students with a wide range of teaching approaches and methods.

The program is firmly grounded in theory and research, with a strong emphasis on pedagogy. The internship component gives students practical classroom experience. Students also have opportunities to tutor in the Writing Center and to work as teaching assistants. In addition to teaching, graduates may go on to Ph.D. and M.F.A. programs as well as careers involving writing, editing, and researching.

The Graduate Committee, under the leadership of the coordinator, has general supervision of the program and the work of students, including approval of thesis proposals. Students are required to attend an Orientation Seminar at the beginning of their first quarter in the program and to consult regularly with the Graduate Coordinator for advising. Petitions for waiver of requirements must be approved by the Graduate Coordinator and the Dean of Graduate Studies when appropriate.

Admission to the Program

To apply for admission to the English Composition Program, applicants must have all their transcripts forwarded to the Office of Admissions and Student Recruitment, along with the Postbaccalaureate Graduate Application form. In addition, applicants should send their statement of purpose and writing sample as well as letters of recommendation to the English Department Graduate Coordinator.

The Graduate Committee cannot act on applications until they have been reviewed by the Office of Admissions and Student Recruitment and have met university admissions requirements. The following schedule of dates has been established for Graduate Committee decisions.

To begin the quarter of:	Application and other materials must be received by:	For decision, call English Dept. after:
Fall 2002	Aug. 1, 2002	Aug. 15, 2002
Winter 2003	Nov. 1, 2002	Dec. 1, 2002
Spring 2003	Feb. 1, 2003	Mar. 1, 2003
Fall 2003	Aug. 1, 2003	Aug. 15, 2003

A student who meets all entrance requirements except one or more course prerequisites or the minimum grade requirements may be admitted to the program as a conditionally classified graduate student. Conditionally classified students must fulfill certain conditions (such as taking or retaking prerequisite courses) within a specified period of time. Prerequisite courses cannot be counted toward the units required for the master's degree.

The specific requirements for admission as a classified graduate student in the English Department are:

1. A grade point average of 3.0 ("B") in all undergraduate upper-division courses;
2. Applicants who do not possess a bachelor's degree from a postsecondary institution in a country where English is the principal language of instruction must receive a minimum score of 575 on the Test of English as a Foreign Language (TOEFL);
3. Three letters of recommendation supporting the student's application. Letters should be from people able to make relevant comments on the student's likely success in English Composition with a Concentration in Composition, English Literature, or Teaching English as a Second Language, and on the student's competence in speaking and writing English;
4. A one-page, typed statement of purpose briefly explaining the student's reasons (i.e. career objectives and research interests) for pursuing a graduate degree in English Composition with a Concentration in Composition, English Literature, or Teaching English as a Second Language;
5. One writing sample (5-10 pages) that reflects the student's ability to write in edited English a balanced, well-reasoned argument or a clear, coherent presentation of information, such as a college term paper or a work-related report;
6. Fulfillment of the graduate entrance writing requirement by passing, with a "B" (3.0) or better, ENG 306 (or an equivalent course) or the Writing Requirement Equivalency Exam (WREE), within seven years prior to acceptance into the program. Students who do not satisfy this

requirement may be conditionally classified and required to take or repeat the course or exam;

7. The following undergraduate courses or their equivalent with a minimum grade of "B-" in each, taken in conjunction with a major in English or some other major:
 - A. For the Concentrations in English Composition and English Literature:
 1. ENG 311. The English Language
 2. One of the following:
 - ENG 420. Pedagogical Grammar
 - ENG 422. History of the English Language
 - HUM 312. Theories of Language Acquisition and Learning
 3. One of the following:
 - ENG 301. Analysis of Poetry
 - ENG 302. Analysis of Drama
 - ENG 303. Analysis of Prose Fiction
 - ENG 304. Analysis of Nonfiction Prose
 4. Twelve units chosen from the following:
 - A. Four units chosen from:
 - ENG 230. English Literature I
 - ENG 231. English Literature II
 - ENG 232. English Literature III
 - ENG 401. English Literature of the Middle Ages
 - ENG 403. English Literature of the Renaissance
 - ENG 406. Seventeenth Century Literature
 - ENG 409. English Literature of the Restoration and Eighteenth Century
 - ENG 412. Romantic Prose and Poetry
 - ENG 415. Victorian Literature
 - ENG 475. Shakespeare I
 - ENG 476. Shakespeare II
 - B. Four units chosen from:
 - ENG 330. American Literature I
 - ENG 331. American Literature II
 - ENG 332. American Literature III
 - C. Four units chosen from:
 - ENG 314. American Indian Literature
 - ENG 319. Studies in Literary Diversity
 - ENG 323. Chicano Literature
 - ENG 336. Women Writers
 - ENG 339. African American Literature
 - B. For the Concentration in Teaching English as a Second Language (TESL):
 1. ENG 311. The English Language
 2. ENG 420. Pedagogical Grammar
 3. HUM 312. Theories of Language Acquisition and Learning

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed at least 16 units of coursework required by the program with a grade point average of at least 3.0 ("B");
3. Filed a program plan approved by the Graduate Coordinator.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work in the formal program, with no fewer than 35 completed at this university and with at least 34 units gained from 600-level courses in English. Students must gain approval in advance from the Graduate Coordinator to count 300-, 400- or 500-level courses as electives;
2. Advancement to candidacy and approval by the Graduate Committee of a thesis proposal prepared in consultation with a Thesis Reading Committee;
3. A grade point average of at least 3.0 ("B") in all graduate course work and research fulfilling the requirements of the student's concentration and grades of "C" (2.0) or better in all courses in the program;
4. For students in the English Composition Concentration and English Literature Concentration, demonstrated minimal competence in a language other than English at the level of a foreign language 150 course given by the Department of Foreign Languages and Literatures. Can be fulfilled by *one of the following*, but note that courses taken to fulfill the language requirement cannot be applied toward any graduate degree unit requirements:
 - A. One year of college course work (with a grade of A, B, C, or CR) studying a language other than English,
 - B. Passage of a language competency exam in a language other than English at a level of Intermediate (ACTFL Stage 2) or above or equivalent,
 - C. Four units of college course work (with a grade of A, B, C, or CR) studying a language other than English plus four units of course work in language acquisition, such as HUM 312. Theories of Language Acquisition and Learning;
5. For students in the Teaching English as a Second Language Concentration, demonstrated competence in a language other than English. Can be fulfilled by one of the following:
 - A. One year of college work (with a grade of A, B, C or CR) studying a language other than English,
 - B. Passage of a language competency exam in a language at a level of Intermediate (ACTFL Stage 2) or above or equivalent;
6. The graduation writing requirement is met upon successful completion of the thesis.

Degree Requirements (48 units)

English Composition Concentration (48 units)

1. ENG 609. Perspectives on Research (4)
2. ENG 611. The Western Rhetorical Tradition (4)
3. ENG 612. Contemporary Composition and Discourse Theory (4)
4. Four units chosen from:
 - ENG 615. Discourse Analysis: Theory and Applications (4)
 - ENG 616. Contrastive Rhetoric (4)
 - ENG 617. Linguistic Pragmatics (4)
 - ENG 618. Stylistics (4)
5. Four units chosen from:
 - ENG 621. Approaches to Imaginative Writing (4)
 - ENG 631. Approaches to Professional Writing (4)
6. ENG 650. Critical Approaches to Literature (4)

7. Eight units chosen from:
 ENG 655. Composing Process: Theory and Research (4)
 ENG 656. The Reading/Writing Connection (4)
 ENG 657. Sites of Praxis (4)
 ENG 658. Computers and Writing: Literacy and Technology (4)
8. ENG 662. Internship in Composition (2)
9. ENG 695. Thesis Planning (2)
10. ENG 699A. Thesis (2)
11. ENG 699B. Thesis (2)
12. Electives (8 units)
 Eight units of electives must be approved in advance by the graduate coordinator or assistant coordinator.

English Literature Concentration (48 units)

1. ENG 609. Perspectives on Research (4)
2. ENG 611. The Western Rhetorical Tradition (4)
3. ENG 612. Contemporary Composition and Discourse Theory (4)
4. Four units chosen from:
 ENG 615. Discourse Analysis: Theory and Applications (4)
 ENG 618. Stylistics (4)
5. ENG 621. Approaches to Imaginative Writing (4)
6. ENG 650. Critical Approaches to Literature (4)
7. Eight units chosen from:
 ENG 601. Seminar in Poetry (4)
 ENG 602. Seminar in Dramatic Literature for Stage and Film (4)
 ENG 603. Seminar in Fiction (4)
 ENG 604. Seminar in Non-Fiction Prose (4)
 ENG 651. Seminar in a Literary Period (4)
8. ENG 663. Internship in Literature (2)
9. ENG 695. Thesis Planning (2)
10. ENG 699A. Thesis (2)
11. ENG 699B. Thesis (2)
12. Electives (8 units)
 Eight units of electives which must be approved in advance by the graduate coordinator or assistant coordinator.

Teaching English as a Second Language (TESL) Concentration (48 units)

1. ENG 523. English Syntax (4)
2. ENG 524. Sociolinguistics (4)
3. ENG 609. Perspectives on Research (4)
4. Four units chosen from:
 ENG 611. The Western Rhetorical Tradition (4)
 ENG 612. Contemporary Composition and Discourse Theory (4)
 ENG 650. Critical Approaches to Literature (4)
5. ENG 615. Discourse Analysis: Theories and Applications (4)
6. Four units chosen from:
 ENG 616. Contrastive Rhetoric (4)
 ENG 617. Linguistic Pragmatics (4)
7. ENG 619. Second Language Acquisition (4)
8. Four units chosen from:
 ENG 625. TESL Methods and Materials for Speaking and Listening (4)

ENG 626. TESL Methods and Materials for Reading and Writing (4)

9. Four units chosen from:
 ENG 655. Composing Process: Theory and Research (4)
 ENG 656. The Reading/Writing Connection (4)
 ENG 657. Sites of Praxis (4)
 ENG 658. Computers and Writing: Literacy and Technology (4)
10. ENG 664. Internship in ESL Teaching (2)
11. ENG 695. Thesis Planning (2)
12. ENG 699A. Thesis (2)
13. ENG 699B. Thesis (2)
14. Electives (4 units)

Four units of electives must be approved in advance by the graduate coordinator or assistant coordinator.

The Thesis

Each student is required to write a thesis in either English Composition, Literature and Rhetoric or Teaching English as a Second Language. The thesis is a culminating independent project that demonstrates that the student has mastered both the subject matter and the written discourse of the discipline. The thesis therefore satisfies the graduation writing requirement.

Thesis topics normally emerge from work done in graduate courses, but each student is responsible for developing an acceptable thesis project and gaining the support of a Thesis Reading Committee made up of two or three English Department faculty members.

Under the guidance of the Thesis Reading Committee and with the help of the thesis planning course (ENG 695), the student constructs an annotated bibliography and a specific plan of action, called the Thesis Proposal. The Thesis Proposal explains what is going to be done, how it will be done, and why. Explaining why is crucial because it explicitly relates the proposed topic to published theory and research in the field. The thesis proposal, accompanied by a supporting memo from the Thesis Reading Committee, must be approved by the Graduate Committee before the student can be advanced to candidacy.

To retain standing as a classified graduate student after completion of coursework, the student must be enrolled continuously in Extended Enrollment (ENG 698). Students may enroll in ENG 698 through Extended Learning; but Extended Learning units do not count as residence units. Thus when students file for the Graduation Requirement Check, they must formally reapply to the university and be reclassified. Students who expect not to be in residence for more than two terms must file a leave of absence to preserve their current catalog rights.

COURSE OFFERINGS IN ENGLISH (ENG)

Upper Division

510. English in the Secondary Classroom

English as a secondary school subject including language, literature and composition. Special emphasis on problems of improving and assessing student writing. Prerequisites: ENG 306, 311 and at least two courses from ENG 301, 302, 303, 304. (4 units)

511. Creative Writing in the Classroom

Advanced methods for teaching the techniques of creative writing, focusing primarily on poetry and fiction. Intended for future elementary and secondary teachers. Requires a minimum six-hour field component. Prerequisite: ENG 317 or 318. (4 units)

513. Advanced Creative Writing

Intensive writing workshop in one genre: poetry, fiction, autobiography or others. Emphasis will change from quarter to quarter. May be repeated for credit as subject matter changes. Prerequisite: ENG 417 or 418 or consent of instructor. (4 units)

515. Senior Seminar in Literature

Advanced study of a selected literary topic, including consideration of critical theory and methodology. May be repeated for credit as topics change. Prerequisites: senior standing (or junior standing with consent of instructor) and completion of at least two analysis courses (ENG 301, 302, 303, 304), and at least two additional upper-division courses in English. (4 units)

516. Senior Project

Preparation and submission of a portfolio of appropriate writing samples as the basis of a reflective essay showing how the portfolio demonstrates accomplishment of essential goals of the major. Graded credit/no credit. Prerequisite: completion of 135 units, including 40 units of the English major. (1 unit)

517. Honors Project

Preparation of a piece of graduate-level writing (which may be an expansion of one of the student's papers or other work) to be presented at an honors colloquium. One hour of class meeting a week and required attendance at honor colloquia. Graded credit/no credit. (2 units)

522. Independent Study in Writing

Projects in advanced writing: fiction, nonfiction, poetry or drama. A total of eight units may apply to the English major or toward graduation. Prerequisites: ENG 513 and departmental approval; students must be enrolled in the Creative Writing track and the project must be approved by an instructor. (4 units)

523. English Syntax

A linguistic approach to the analysis of modern English sentences and their component parts. Emphasis is placed on practical experience in analyzing structures in context. Prerequisites: ENG 311 and 420. (4 units)

524. Sociolinguistics

An examination of language within social and cultural contexts, including ethnic, social and regional dialect variations in the United States. Prerequisites: ENG 311 and 420. (4 units)

525. Seminar in Literary Theory and Criticism

Advanced study in special topics in literary theory and criticism. May be repeated for credit as topics change. (4 units)

526. English Phonetics and Phonology

Sounds and sound patterns of spoken English, with special attention to the pronunciation problems encountered by learners of English as a second language. Prerequisite: ENG 311. (4 units)

530. Issues in Tutoring Writing

Study of the theory, principles and methods of tutoring students who need specific practice in writing. Those completing this course with a grade of "B" (3.0) or better are eligible to participate in tutorial writing services on campus. Students in this class are expected to be proficient writers. Prerequisites: ENG 101 and consent of instructor. (4 units)

542. Literary Publication

Principles and methods of literary publication. Students function as the literary staff dealing with key aspects of the production process, including helping to select, edit, and proof read poems, short stories, and plays. Two hours lecture and four hours laboratory. ENG 542A and 542B may each be taken once for credit.

A. Producing print literary journal, *The Pacific Review*, and its web site. (4 units)

B. Producing on-line literary journal, *Gold Coast Review*. (4 units)

565. Special Studies in Writing

Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. May be repeated for credit as topics change. Prerequisite: consent of instructor. (2 units)

566. Special Studies in Writing

Studies in particular topics in writing such as assessment, learning theory and research on the teaching of writing. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

575. Internship in English

Supervised learning experience applying English-related skills in a work setting. A total of eight units may be applied toward graduation. Generally assumes 30 hours of work/study per unit of credit. Graded credit/no credit. Prerequisites: junior standing with at least 16 units of course work in English on this campus with an overall grade point average of 3.0 or better; consent of instructor; and departmental approval of a contract submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

595. Independent Study in Literature, Composition, or Linguistics

Independent study of selected themes, figures, and areas in literature, composition, or linguistics. May be repeated for a maximum of eight units of credit toward the B.A. in English and toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

601. Seminar in Poetry

Advanced study in particular kinds of poetry, with special focus on generic issues or problems. May be repeated for credit as topics change. (4 units)

602. Seminar in Dramatic Literature for Stage and Film

Advanced study in particular kinds of dramatic literature and film, with special focus on generic problems and issues. May be repeated for credit as topics change. (Also offered as TA 602. Students may not receive credit for both.) (4 units)

603. Seminar in Fiction

Advanced study in particular kinds of fiction, with special focus on generic issues or problems. May be repeated for credit as topics change. (4 units)

604. Seminar in Nonfiction Prose

Advanced study in particular kinds of nonfiction prose with special focus on generic issues or problems. May be repeated for credit as topics change. (4 units)

605. Special Topics in Language Studies

Seminar in particular aspects of language studies and their empirical application. May be repeated for credit as topics change. Prerequisites: ENG 311 and 420. (4 units)

609. Perspectives on Research

Critical study of research methods and resources in the fields of composition, linguistics and literature. Formerly ENG 690. (4 units)

611. The Western Rhetorical Tradition

Examination of major texts and movements in the history of rhetoric. (4 units)

612. Contemporary Composition and Discourse Theory

Examination of major texts and movements in contemporary composition and discourse theory. (4 units)

615. Discourse Analysis: Theories and Applications

A study of contemporary theories of linguistic analysis and their applications to literature and composition. Prerequisites: ENG 311 or equivalent and ENG 611. (4 units)

616. Contrastive Rhetoric

Comparison and contrast of the rhetorical conventions of various genres as they are written in a variety of languages and discourse communities. Formerly a topic under ENG 605. Prerequisites: ENG 311 and 420 or consent of instructor. (4 units)

617. Linguistic Pragmatics

Seminar in the study of how language is used in contexts in relation to the speaker's goals and intentions. Application of major theories in the field to the analysis of actual language. Formerly a topic under ENG 605. Prerequisites: ENG 311 and 420, or consent of instructor. (4 units)

618. Stylistics

Examination of various linguistic and rhetorical devices which help writers of literary text to convey their messages and to produce intended effects. Prerequisites: ENG 311 and 420, or consent of instructor. (4 units)

619. Second Language Acquisition

Examination of competing theories and models of second language acquisition in both children and adults with a special focus on interlanguage studies, transfer, and input and interaction. Formerly a topic under ENG 605. Prerequisites: ENG 311 and 420, or consent of instructor. (4 units)

621. Approaches to Imaginative Writing

Traditional and contemporary approaches to imaginative writing; emphasis on means of encouraging different styles and modes of expression. (4 units)

625. TESL Methods and Materials for Speaking and Listening

Seminar in theory, methodology, and techniques in the teaching of listening comprehension, pronunciation and norms of conversation and classroom interchange to non-native speakers of English in an academic context. Prerequisites: ENG 311, 420 and HUM 312, or consent of instructor. (4 units)

626. TESL Methods and Materials for Reading and Writing

Seminar in theory and methodology of teaching reading (including techniques such as skimming and scanning, identifying contextual clues and audience assumptions), and writing (including genre analysis and the teaching of grammar through writing) to non-native speakers of English in an academic context. Prerequisites: ENG 311 and 420, or consent of instructor. (4 units)

631. Approaches to Professional Writing

Emphasis on writing and teaching the techniques of composing professional reports, abstracts, reviews, and of editing technical manuals and preparing articles for professional journals. (4 units)

650. Critical Approaches to Literature

Study and practice of various critical approaches, such as formalism, deconstructionism, feminism, reader response, and new historicism, with particular attention to their assumptions about the meaning and function of literature. (4 units)

651. Seminar in a Literary Period

Advanced study in a specific literary period. May be repeated for credit as topics change. (4 units)

655. Composing Process: Theory and Research

Intensive examination of the research on composing, competing theories of process, and pedagogical applications to the teaching of composition. (4 units)

656. The Reading/Writing Connection

Intensive study of theory, research, and pedagogy concerning the role of reading in learning to write. (4 units)

657. Sites of Praxis

Study of composition theory, research and pedagogy as practiced in sites such as writing across the curriculum programs, basic writing courses, writing centers, and community college classrooms. (4 units)

658. Computers and Writing: Literacy and Technology

Examination and exploration of the ways in which computer technologies can be integrated into composition courses and literacy contexts of the workplace, and how they alter the understanding, acquisition, and teaching of literacy in our society and culture. (4 units)

662. Internship in Composition

A practical application of composition theory, research, and pedagogy. Supervised teaching in the composition classroom. May be repeated once for credit. Prerequisite or corequisite: completion of courses required for the M.A. in English Composition (except ENG 695, 699A and 699B) with a 3.0 ("B") average. (2 units)

663. Internship in Literature

Practical experience working with students in an introductory literature course. Includes supervised teaching in the classroom and frequent consultations with the instructor. May be repeated once for credit. Prerequisites or corequisites: completion of courses required for the M.A. in English Composition (except ENG 695, 699A, 699B and electives) with a 3.0 ("B") average. (2 units)

664. Internship in ESL Teaching

Practical experience working with students in an ESL-designated classroom. Includes supervised teaching in the ESL classroom. May be repeated once for credit. Prerequisite or corequisite: completion of courses required for the M.A. in English Composition (except ENG 695, and 699A, 699B and electives) with a 3.0 ("B") average. (2 units)

666. Seminar in Writing

Studies in particular topics in writing. May be repeated for credit as topics change; a maximum of eight units of credit may be applied to the Master of Arts in English Composition program. Prerequisite: consent of instructor. (2 units)

695. Thesis Planning

Preparation of thesis proposal and annotated bibliography. Graded credit/no credit. Prerequisite or corequisite: completion of courses required for the M.A. in English Composition (except ENG 662 or 664, 699A and 699B and electives) with a 3.0 ("B") average. (2 units)

696. Graduate Independent Study

Advanced research on a specific topic, figure, or area in literature, composition, or linguistics. May be repeated for a maximum of eight units toward the M.A. in English Composition and graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, and approval of the graduate coordinator. Proposals must be submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis

Independent graduate research in English composition or teaching English as a second language culminating in a written thesis.

- A. Prerequisites or corequisites: graduate committee approval of the thesis proposal, advancement to candidacy, completion of all other required courses for the M.A. in English Composition, or consent of graduate coordinator. (2 units)
- B. Prerequisites or corequisites: graduate committee approval of the thesis proposal, advancement to candidacy, completion of all other required courses for the M.A. in English Composition, or consent of graduate coordinator. (2 units)

GEOGRAPHY

Department of Geography

Social and Behavioral Sciences Building, Room 327J
880-5519

The following courses are offered in support of various graduate degree programs offered by the university.

COURSE OFFERINGS IN GEOGRAPHY (GEOG)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Proseminar in Geography

Survey of the concepts and ideas that geographers study, how they approach the study of geographical phenomena, and what methods they employ in their analysis. The seminar will include discussion of the relationships of the discipline to other social science disciplines and the unique contributions geography has made to knowledge in general and in the social sciences. Prerequisite: consent of instructor. (4 units)

605. Spatial Data Presentation

An integrated study of geographic techniques used in land use planning, including: computer graphics, geographic information systems, and remote sensing. Three hours lecture and two hours laboratory. (4 units)

609. Seminar in the Geography of the Former and Post-Soviet Union

A geographic perspective of the former and post-Soviet Union, including such topics as population, economic development, environment and foreign relations. (4 units)

615. Foundations of Planning I

An intensive study of the social and ethical bases of urban planning, and the fundamental skills and understanding needed by urban planners. The course will include an overview of the legal, economic and political bases of urban planning. (4 units)

616. Foundations of Planning II

Standards and issues associated with the development of general planning, zoning ordinances, and land subdivision are examined. (4 units)

617. Planning Within the Local Power Structure

Examination of the interrelationships between local urban power structures and modes of decision-making and planning, with the purpose to explore ways in which the professional urban planner can work effectively. (4 units)

621. Seminar in the Geography of Latin America

A geographic perspective of Latin America, including such topics as population, economic development, environment and foreign relations. (4 units)

650. Environmental Issues of Land Management

Study of multiple-use management of non-urban land by local government. Emphasis will be placed on recreation, mining, and the maintenance of open space, biotic habitat, and air and water quality. The California Environmental Quality Act (CEQA) and related issues will also be addressed. (4 units)

680. Advanced Demographic Analysis

Advanced study of demographic techniques with particular emphasis on those relevant to urban planning. An examination of various data sources is included. (4 units)

695. Planning Colloquium

Discussion of the application of planning techniques in public and private agencies.

- A. Strategic Planning and Project Management (2 units)
- B. Negotiation in Planning (2 units)
- C. Subdivision Review and Site Design (2 units)
- D. Urban Design and Open Space (2 units)
- E. Neighborhood Planning (2 units)
- F. Urban Housing and Community Development (2 units)
- G. Urban Planning Law (2 units)
- H. Urban Transportation Planning (2 units)
- I. Regional Issues of Urban Planning (2 units)

697. Project Proposal Development

A study of research design required in developing a culminating research project proposal including study of research methodologies relevant to the research project. (4 units)

698. Research Project in Urban Planning

Research applying methods of planning. Graded credit/no credit. Prerequisite: GEOG 697. (4 units)

HEALTH SCIENCES

Master of Science in Health Services Administration

Master of Arts

Health Education Option in Education
(For degree requirements see [Page 415.](#))

Department of Health Science and Human Ecology

Health and Physical Education Building, Room 235
880-5339

FACULTY: Dorothy Chen-Maynard, Kim Clark, Richard Eberst, Daniel Fahey, Marsha Greer, Joe Hughes, Joseph Lovett (Graduate Coordinator), Lal Mian, Cindy Paxton (Chair)

MASTER OF SCIENCE IN HEALTH SERVICES ADMINISTRATION

Requirements (60-68 units)

The Master of Science in Health Services Administration is appropriate for students preparing to become health service administrators or managers in hospitals, health maintenance organizations, medical group clinic managers, nursing homes, public health departments, state and federal health agencies, military health services or other health service organizations.

Specific entrance requirements have been established by the university and the Department of Health Science and Human Ecology. Information about the entrance requirements are available at the department office.

Students who wish to design a specific, individualized master's degree related to health science should also consider the M.A. in Interdisciplinary Studies. Students can successfully combine courses from several relevant fields to build interdisciplinary programs serving their career goals in such areas as Community Health Education, Health Promotion, Environmental Health, Occupational Health/Industrial Hygiene, Public Health, and Gerontology. For further information see the M.A. in Interdisciplinary Studies on [Page 473.](#)

Students may also earn a certificate in Finance, Accounting, and Information Systems along with the Master of Science in Health Services Administration.

Admission to the M.S. Program

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

1. A minimum grade point average of 3.0 ("B") for the major or for the last 90 quarter units of the bachelor's degree, or for at least 12 units of graduate work;
2. Completion of the graduate entrance writing requirement;
3. Three letters of recommendation, one from the school where the candidate most recently graduated, or from

someone who can attest to the candidate's academic and scholastic ability in a graduate degree program;

4. A double-spaced paper not to exceed three pages providing a biographical sketch of the student's life, work background and experiences. The paper is to be concluded with a discussion (not to exceed one page) which addresses the reasons for applying to this graduate program plus career goals and aspirations.

Students who meet the above criteria may be admitted as conditionally classified graduate students. To attain fully classified status, students must satisfy conditions set by the department's graduate committee, including completion of at least 12 quarter units of appropriate course work at California State University, San Bernardino with a grade point average of 3.0 ("B") or better and removal of deficiencies, if any.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the faculty of the Department of Health Science and Human Ecology who will also accept chairing the student's thesis committee if the thesis option is selected;
3. Completed at least 12 quarter units of required course work as a graduate student at this university with approval of the major advisor and with a minimum grade point average of 3.0 ("B");
4. Candidacy will be granted upon completion of HSCI 501 and 502 plus 12 units from the basic core of courses;
5. Gained a recommendation for advancement to candidacy from the Graduate Coordinator of the Department of Health Science and Human Ecology;
6. Submitted a formal program of study of graduate course work prepared in consultation with the major advisor and approved by the graduate coordinator of the Department of Health Science and Human Ecology. The program will include an administrative residency/internship or a thesis.

Requirements for Graduation

In addition to the general requirements of the university and the department:

1. A minimum of 60 to 68 units of approved graduate-level work included in the formal program, with at least half of the units required for the degree gained from 600-level courses in Health Science and Human Ecology;
2. Advancement to candidacy for the degree and approval of the specific program study;
3. A grade point average of 3.0 ("B"), or better, in all graduate course work and research fulfilling the requirements of the Master of Science in Health Services Administration, and grades of "C" (2.0) or better in all courses in the program;
4. Either A or B below:
 - A. Completion of the administrative residency/internship with a final project;
 - B. Completion and defense of an acceptable thesis;
5. The graduation writing requirement is met upon successful completion of the research thesis or a project report of a graduate internship.

Classified and conditionally classified graduate students in the Master of Science program must complete their degree requirements within five years.

Degree Requirements (60-68 units)

Foundation (8 units)

1. HSCI 501. Foundations I: Health Status and Determinants of Health (4)
2. HSCI 502. Foundations II: Health System Organization and Delivery (4)

Note: Students holding the Bachelor of Science degree from the Department of Health Science and Human Ecology will be exempt from HSCI 501, and if the degree concentration is in Health Administration and Planning, students will be exempt from HSCI 501 and 502; students with appropriate course work from comparable programs may apply for similar exemptions.

Basic Core (20 units)

1. HSCI 598. Research Methodology in Health Science (4)
2. HSCI 601. Administration of Health Care Programs (4)
3. HSCI 602. Management, Organization and Planning in Health Services (4)
4. HSCI 603. Health Economics and Financial Systems (4)
5. Four units chosen from:
 - ACCT 605. Health Care Accounting and Financial Analysis (4)
 - HSCI 605. Health Care Accounting and Financial Analysis (4)

Leadership Core (24 units)

1. HSCI 635. Communication and Human Relations in Health Services (4)
2. HSCI 645. Information and Technology Systems Management in Health Services (4)
3. HSCI 653. Health Law and Medical Ethics (4)
4. HSCI 665. Strategic Health Services Management and Change in Health Care Organizations (4)
5. HSCI 675. Health Services Administration Leadership, Team and Quality Development (4)
6. HSCI 685. Health Services Administration Capstone Seminar (4)

Electives (8 units)

1. Eight units chosen from:
 - ECON 590. Seminar in Economics (4)
 - HSCI 550. The Health Aspects of Death and Dying (2)
 - HSCI 590. Current Topics in Health Administration and Planning (2)
 - HSCI 595. Independent Study (1-5)
 - HSCI 620. Advanced Topics in Epidemiological Methodology (4)
 - HSCI 632. Health Policy and Decision-Making (2)
 - HSCI 640. Administration of Health Education Programs (4)
 - HSCI 650. Administration of Environmental Management Programs (4)

- HSCI 660. Advanced Topics in Health Science and Human Ecology (2)
- HSCI 670. Directed Readings (5)
- INFO 609. Information Management Systems (4)
- MGMT 601. Organization Theory and Behavior (4)
- MGMT 640. Methods of Organizational Change (4)
- MGMT 641. Personnel Administration (4)
- MKTG 560. Services Marketing (4)
- MKTG 605. Marketing Management (4)
- MKTG 610. Consumer and Organizational Buying Behavior (4)
- MKTG 696. Marketing Strategy (4)
- NSCI 597. Issues and Trends in Health Care (4)
- OM 607. Operations Management (4)
- OM 611. Operations Strategy (4)
- OM 614. Advanced Quality Management (4)
- OM 650. Information Decision Systems (4)
- OM 660. Supply Management (4)
- PA 462. Public Personnel Administration (4)
- PA 463. Governmental Budgeting (4)
- PA 514. Management of Private Nonprofit Organizations (4)
- PA 568. Accounting for Government and Not-for-Profit Organizations (4)
- PA 662. Human Resource Management in the Public Sector (4)
- PA 663. Public Budgeting and Finance (4) or other electives upon approval of major advisor.

Culminating Experience/Application of Learning (8 units)

1. One of the following options:
 - Internship/Project Option (8 units)
 1. HSCI 697A. Administrative Residency: Internship (4)
 2. HSCI 697B. Administrative Residency: Internship and Final Project (4)
 - Thesis Option (8 units)
 1. HSCI 699A. Thesis: Proposal Development and Research (4)
 2. HSCI 699B. Thesis: Research, Writing and Defense (4)

COURSE OFFERINGS IN HEALTH SCIENCE (HSCI)

Upper Division

501. Foundations I: Health Status and Determinants of Health

Factors that affect the health status of individuals and populations. Topics include epidemiology, demographics and statistics on health status, determinants of health and illness, behavioral aspects of health and preventive care. (4 units)

502. Foundations II: Health System Organization and Delivery

Health care delivery and the organization and function of the health care system. Topics include characteristics and measures of health care systems, health care delivery processes and issues, economic issues and financing of health care organizations. (4 units)

525. Health Data Analysis and Demography

Introduction to analysis of health data using statistical procedures, development of skills for determining analytical techniques and procedures for interpretation and presentation of resultant data; examination of sources and evaluation of demographic data and relationships to such topics as fertility, morbidity, mortality, population projection, life tables and migration. Prerequisites: HSCI 451 and MATH 305 or 350 or consent of instructor. (4 units)

550. The Health Aspects of Death and Dying

Investigation of how the realities of death and loss influence the quality of a person's life and their personal health status. The focus is on assisting students and professionals in developing the skills necessary to assist individuals deal with death, loss, grief, bereavement, and mourning in the healthiest ways possible. Formerly a topic under HSCI 542. (4 units)

560. Individual and Small Group Interventions in Health Promotion

Theories and strategies of individual and group intervention in behaviors related to premature morbidity and mortality. Includes assessment, intervention, planning and follow-up, referral skills for the health education/health promotion specialist. Prerequisite: HSCI 470 or consent of instructor. (4 units)

590. Current Topics in Health Administration and Planning

Presentation and analysis of a particular issue or topic in health services administration or planning. May be repeated for credit as topics change. (2 units)

595. Independent Study

Research in special topics including library studies and/or laboratory work under the direction of a faculty member. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

598. Research Methodology in Health Science

Research methods and application to contemporary health and environmental problems. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. Prerequisite: MATH 305 or 350 or consent of instructor. (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Seminar in Health and Human Ecology

Philosophical foundations of health and human ecology. Historical, contemporary and professional perspectives. (4 units)

601. Administration of Health Care Programs

Economic forces which impact on health and health delivery systems and an assessment of the distribution of financial resources required to sustain these systems. Emphasis on trends in financing health care and the economic influence of reimbursement policies on financial decision-makers. Formerly HSCI 630. (4 units)

602. Management, Organization and Planning in Health Services

Organizational, environmental, socio/political and behavioral aspects of health and health delivery systems. Ecological perspectives on planning and administrative approaches in developing, modifying and sustaining modern health systems. Formerly HSCI 610. (4 units)

603. Health Economics and Financial Systems

Micro- and macroeconomic aspects of health services, various payment approaches, third-party reimbursement systems, budgeting and financial analysis, decision-making and planning in health services and organizations. Formerly HSCI 655. (4 units)

604. Theory and Practice of Interventions

Review of current theories and practices of effective prevention and intervention programs, including intervention mapping, program planning, and implementation in schools and community settings with youth. Prerequisite: HSCI 470 or consent of instructor. (4 units)

605. Health Care Accounting and Financial Analysis

Basic concepts, methods, and application of cost and accrual accounting, finance and budgeting techniques and methods applied to health services and health care organizations, with computer application and analysis. (Also offered as ACCT 605. Students may not receive credit for both.) (4 units)

606. Advanced Program Evaluation

Advanced topics in health and human services program evaluation models, data collection, quantitative, and qualitative methods, data analysis and data interpretation. Prerequisites: HSCI 471; and HSCI 598 or EDUC 663; or consent of instructor. (4 units)

620. Advanced Topics in Epidemiological Methodology

Concepts and methodologies of contemporary epidemiology and their relationship to managing and planning health and environmental systems. Prerequisites: HSCI 451 and 598. (4 units)

632. Health Policy and Decision-Making

Issues and problems in the area of health administration. Emphasis on quality assurance, legal aspects, policy development and decision-making as related to health care planning operations. Prerequisites: HSCI 371, 600 and 610. (2 units)

635. Communication and Human Relations in Health Services

Techniques for effective written and oral communication at the interpersonal and organizational levels. Particular emphasis is placed upon enhancing human relations skills in health services settings. (4 units)

640. Administration of Health Education Programs

Current developments in health education related to management and planning of health promotion programs, including strategies to facilitate communication, decision-making and problem solving. Prerequisites: HSCI 470, 600 and 610. (4 units)

645. Information and Technology Systems Management in Health Services

Information systems, networks, and computer software systems, used in health services setting. Prerequisite: consent of instructor. (4 units)

650. Administration of Environmental Management Programs

Analysis of local, state and national environmental and occupational health programs including program planning and evaluation. Comparative study of international environmental management problems, styles and techniques. Prerequisites: HSCI 352, 600 and 610. (4 units)

653. Health Law and Medical Ethics

Legal and ethical issues and practices related to health care delivery and health services administration. Ethical administrative behavior, standard of care, tort law and professional liability, negligence and liability law, contracts, lawsuits and civil liability process, corporate law and liability, antitrust, case law and related health law issues are covered. (4 units)

660. Advanced Topics in Health Science and Human Ecology

Analysis of current literature, practices, procedures and issues in health science and human ecology at local, state, national and international levels. May be repeated for credit as topics change. (4 units)

665. Strategic Health Services Management and Change in Health Care Organizations

Health service organizations' mission, vision, internal and external evaluation. Medical care organization strategy evaluation, formulation, tactics and development. Health planning methodologies, evaluation, feedback and the process and dynamics of medical organization change. Prerequisites: HSCI 601, 602, 603 and 605. (4 units)

670. Directed Readings

Directed independent study of classic and contemporary writings in a defined area combined with scheduled individual and small group conferences with supervising faculty member. Prerequisites: graduate standing and consent of instructor. (5 units)

675. Health Services Administration Leadership, Team and Quality Development

Health services administration leadership skill development including health administration team behaviors, actions and approaches. Health services team development for continuous quality improvement process and management. Prerequisites: HSCI 601, 602, 603 and 605. (4 units)

685. Health Services Administration Capstone Seminar

Integration and application of leadership theory and administrative skills and approaches as applied to the organizational and team management process and management of health services organizations. Prerequisites: HSCI 501, 502, 598, 601, 602, 603, 604, 605, 606, and concurrent enrollment in HSCI 645 and 675. (4 units)

697. Administrative Residency

- A. Internship. First half of a 360-hour supervised internship in sites such as hospitals, health plans, HMOs, medical groups, managed care organizations, private or public health services or agencies. Requires a rotation in administrative organization and function. Prerequisites: HSCI 598, 601, 602, 603 and 605, and completion of at least 36 units of approved course work toward graduation, advancement to candidacy, and consent of department. (4 units)
- B. Internship and Final Project. Second half of a 360-hour supervised internship in sites such as hospitals, health plans, HMOs, medical groups, managed care organizations, private or public health services or agencies. Requires completion of the rotation of administrative organization and function. Completion of final major project. Prerequisites: HSCI 697A and consent of department. (4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis

- A. Proposal Development and Research. Independent graduate research conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Prerequisites: HSCI 598, 601, 602, 603, 605 and completion of at least 36 units of approved course work toward graduation and advancement to candidacy. (4 units)
- B. Research, Writing and Defense. Independent graduate research conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Prerequisite: successful completion of HSCI 699A. (4 units)

HISTORY

Department of History

Social and Behavioral Sciences Building, Room 327F
880-5524

The following courses are offered in support of graduate degree programs offered at this university.

COURSE OFFERINGS IN HISTORY (HIST)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Proseminar in History

Survey of the concepts and ideas that historians study, how they approach the study of historical phenomena, and what methods they employ in their analysis. The seminar will include discussion of the relationships of the discipline to other social science disciplines and the unique contributions history has made to knowledge in general and in the social sciences. Prerequisite: consent of instructor. (4 units)

603. Seminar in Modern Military History

Analyses of selected military operations since World War II. May be repeated once for credit, as topics change, with consent of student's advisor. (4 units)

630. California Water History

History of the development of water policy in California from pre-colonization times to present. (4 units)

HUMAN DEVELOPMENT

Department of Psychology

Jack Brown Hall, Room 263
880-5570

The following courses are offered in support of graduate degree programs offered at this university.

COURSE OFFERINGS IN HUMAN DEVELOPMENT (HD)

Upper Division

520. Intergenerational Aspects of Human Development

Theory and research on the processes through which family members of different generations influence one another's development. (4 units)

540. Work, Retirement and Leisure

Theory and research on work, retirement, and leisure during the adult years. (Also offered as PSYC 540. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

575. Internship

Supervised work and study in private and public organizations. May be repeated once for credit. (Only four units may be applied to upper-division credit in the Human Development major.) Arrangements for the internship must be made during the quarter preceding the quarter in which the student plans on enrolling in this course. (Units may be applied to upper-division credit in the Human Development major.) Arrangements for the internship must be made during the quarter preceding the quarter in which the student plans on enrolling in this course (see the Human Development coordinator). Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

582. Special Topics in Human Development

An intensive study of selected topics related to human development. May be repeated for credit as topics change. Prerequisite: upper-division or graduate standing. (Credit to be arranged: 1 to 5 units)

585. Student Teaching in Early Childhood Education

Supervised teaching in early childhood education programs. Graded credit/no credit. Prerequisites: HD 282A and 282B, consent of instructor and department. (Credit to be arranged: 4 to 10 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

690. Families and Parenting

A review of research on selected topics related to family and parenting issues, and the relation of such to child development. Prerequisite: classified graduate standing. (4 units)

HUMANITIES

College of Arts and Letters

University Hall, Room 237 or 339
880-5800 or 880-5869

The following courses are offered in support of graduate degree programs offered at this university.

COURSE OFFERINGS IN HUMANITIES (HUM)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

695. Directed Graduate Studies

Graduate-level independent study under the direct supervision of a faculty member from the student's committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of dean of graduate studies. A total of eight units may apply toward graduation. (Credit to be arranged: 1 to 6 units)

699. Thesis

Preparation of Master of Arts thesis under the direction of a faculty member approved by the committee on graduate education. Maximum of nine credits applicable toward the Master of Arts, with a special major. Prerequisite: advancement to candidacy. (Credit to be arranged: 1 to 5 units)

INTERDISCIPLINARY STUDIES

Master of Arts in Interdisciplinary Studies

Office of the Dean of Graduate Studies

Administration Building, Room 127
880-5058

The university offers a limited number of courses outside of its department and school structure. Also offered as interdisciplinary studies are the certificate programs in international relations and bilingual/crosscultural studies. See Pages 313 and 338.

MASTER OF ARTS IN INTERDISCIPLINARY STUDIES

Requirements (48 units)

Occasionally a student wishes to pursue special interests or career goals that are not met by existing graduate programs. For this student, the Master of Arts in Interdisciplinary Studies offers the opportunity to create a unique master's degree program or one that is not otherwise substantially available in a current graduate program offered at this university.

This individualized master's degree is designed to be a highly challenging academic program for the self-motivated student who has a clear perception of objectives and a background which will allow advanced study in the disciplines combined in the program. The Interdisciplinary Studies M.A. is designed to accommodate unique student interests or to prepare students for fields which require programs not presently offered at the university. It is not a replacement of existing degree programs but an enrichment of the university's offerings. This program is designed by the student in consultation with the Dean of Graduate Studies and three faculty members. The three faculty members, who comprise the student's faculty committee, are selected from more than one academic discipline. Once the program is approved by the committee, it is then submitted to the University Curriculum Committee for its approval.

The Integrative Studies Track is directed primarily to experienced teachers who are currently in elementary, middle school and high school settings. This option under the M.A. in Interdisciplinary Studies reflects the desire of many faculty across schools and departments to work together to provide an informed approach to interdisciplinary inquiry and its subsequent integration into educational environments. This option is more than just an interdisciplinary proposal. It seeks to go beyond cursory knowledge of disciplines to substantive inquiry which connects and synthesizes various perspectives. Teachers at all levels and throughout all disciplines are required to create learning environments which delve deeply into substantive content, engage students in critical processing and reflection, integrate disciplinary perspectives and complex experiences in which assessment is related to real-world

contexts. This graduate program provides an alternative form of professional education for teachers. Rather than a completely individualized plan, the Integrative Studies track requires six designated courses with the remaining course work taken outside the College of Education.

Application Process:

The procedures listed below are for the individualized M.A. in Interdisciplinary Studies. Students interested in the Integrative Studies Track or the E-Marketing Communication and New Media Option should contact the program coordinators.

1. Determine the feasibility of pursuing an Interdisciplinary Studies M.A. by reviewing the requirements and examining available CSUSB master's programs to see if the proposed degree could be met through any of these. Explore the resources of the campus needed for an Interdisciplinary Studies M.A. in terms of course offerings, library resources, facilities, and faculty expertise. View the video "I. S. Master's Degree" (Tape #3094) available in Media Services (PL-003) in the basement of the library to discern qualification for an Interdisciplinary Studies Program of study;
2. Prepare a written proposal eight pages in length to include the following:
 - a. Identify by title the proposed interdisciplinary program of study (i.e., Interdisciplinary Studies Master's Degree in [50-space limit]) and describing the purpose or focus of this specially designed degree program;
 - b. Explain why this course of study cannot be pursued within one department with electives from other departments;
 - c. Explain how this program relates to the student's educational and career goals;
 - d. Indicate student's background, both academic and experiential, for undertaking this study;
 - e. List the CSUSB courses appropriate to meeting goals;
3. Submit the proposal to the Office of Graduate Studies for review and approval. If the draft proposal is found promising, and University facilities can support the proposed program of study, the Dean of Graduate Studies will schedule an appointment to discuss the project and provide the forms and guidelines necessary to proceed with formal application to the program as outlined in item 4 below;
4. To complete the formal application for acceptance to an Interdisciplinary Studies Master's program the student must:
 - a. Secure the agreement of faculty in the disciplines related to the proposed special program to serve as members of the Interdisciplinary Studies Graduate Committee. This committee must consist of no less than three tenured/tenure-track, full-time faculty members at CSUSB. The chair of the committee must be a member of a department approved to grant a graduate degree;
 - b. Convene a meeting of the Interdisciplinary Studies Graduate Committee. At this meeting the committee will: review student's documents (i.e., CSUSB transcripts, Statement of Purpose, etc.); identify the appropriate preparatory course work, completed or to be

- completed; and formulate with the student an academically sound program of graduate study related to their Statement of Purpose; and develop the Approved Study Plan for the Master's Degree in Interdisciplinary Studies;
- c. On the form provided, list the five upper-division prerequisite courses, each with a grade of "B" (3.0) or better, in the major discipline of the proposed program. The determination of the major discipline is subject to the approval of the University Curriculum Committee;
 - d. On the Approved Study Plan form list the minimum of 48 units of course work, 70% of which must consist of 500- or 600-level courses, to be included in the Interdisciplinary Studies M.A. As an interdisciplinary program, these courses should include work from two or more departments. To avoid later difficulties with key courses that are not offered prior to graduation, reasonable substitutions should be listed where possible;
 - e. Secure signatures on the application from the Interdisciplinary Studies Graduate Committee. The Interdisciplinary Studies M.A. proposal must be signed by three faculty members who have worked with the student in developing the proposed course of study. The faculty member who will chair the advisory committee must write a statement of support which includes a brief evaluation of the proposal;
5. Submit the completed proposal for the Master's Degree in Interdisciplinary Studies to the Dean of Graduate Studies. The Office of Graduate Studies will attach a copy of current CSUSB transcripts. These materials constitute the Application for a Master's Degree in Interdisciplinary Studies and will be forwarded to the University Curriculum Committee for consideration. The committee meets regularly throughout the academic year and applications can be submitted at any time, though every effort should be made to turn in the proposal early enough in the term to receive approval prior to registration for the next term. Applications cannot be considered during the summer quarter.

The application materials should be filled out with great care and accuracy. Hastily done or carelessly prepared proposals are unlikely to convince the Curriculum Committee of the seriousness of the proposal. The signature of the Chair of the University Curriculum Committee on the application for the Master's Degree in Interdisciplinary Studies signals acceptance of an applicant to the program. Subsequent modification of an Approved Study Plan requires approval of the student's Interdisciplinary Studies Graduate Committee and the Dean of Graduate Studies on an official Change of Study form.

No more than 12 units of proposed course work can be taken prior to submission of the proposal to the University Curriculum Committee;

6. The Dean of Graduate Studies will notify the student in writing of the decision of the University Curriculum Committee. This may be approval or request for resubmission;
7. Any change or substitution of courses in the approved program must be approved by the student's faculty committee and the Dean of Graduate Studies;

8. Upon approval of the Interdisciplinary Studies M.A. proposal, the student may formally declare an Interdisciplinary Studies M.A. At graduation, the diploma will show only an M.A. in Interdisciplinary Studies, unless the student requests in writing the inclusion of the focus of the interdisciplinary study in this fashion: Master of Arts in Interdisciplinary Studies in (subject area). The transcript will reflect both the degree title and the focus of study.

Admission to the Program

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

1. A cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the major;
2. Completion of the graduate entrance writing requirement;
3. Prerequisite of at least five upper-division courses, each with a grade of "B" (3.0) or better, in the major discipline of the proposed program. The determination of the major discipline is subject to the approval of the University Curriculum Committee;
4. A three-member faculty committee, the chair of which serves as primary advisor, to supervise the course of study;
5. An interdisciplinary studies M.A. proposal submitted, on forms available from the Office of the Dean of Graduate Studies, to the University Curriculum Committee; the program of courses must not significantly duplicate any existing degree program on this campus or on any other state college or university campus within a commutable distance; no more than 12 units of proposed coursework can be taken prior to submission of the proposal to the University Curriculum Committee;
6. Approval of the program proposal by the University Curriculum Committee.

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

Requirements for Graduation

1. The program of study should be interdisciplinary, including course work from two or more departments represented at the university;
2. The program of study must include a minimum of 48 quarter units of course work, at least 70% of all course work taken must be in 500- or 600-level courses;
3. The program of study must not include more than eight units of independent study course work, excluding the units allowed for thesis or project;
4. The program must include a synthesizing experience (comprehensive examination, project or thesis). This experience will satisfy the graduation writing requirement. The project or thesis may include an oral defense. Students may register for no more than nine units of thesis or project credit. The project or thesis may include an oral defense;
5. The program of study must include a course in research methods in the major discipline;
6. A grade point average of 3.0 ("B") must be earned in course work taken to satisfy the Master of Arts degree re-

quirements and grades of "C" (2.0) or better in all courses in the program. Grades of "C-" (1.7) or less cannot be used toward the degree;

7. When students have completed between 12 and 20 units of course work on an approved study plan, it will be necessary for them to submit a formal letter to the Office of the Dean of Graduate Studies requesting advancement to candidacy;
8. Any additional general requirements not cited above and listed on [Page 364](#).

M.A. INTERDISCIPLINARY STUDIES: INTEGRATIVE STUDIES OPTION

Requirements (48 units)

The M.A. in Interdisciplinary Studies, Integrative Studies Track is an innovative program for creative educators interested in entering a dialogue with a cohort of master's students and a team of professors to explore how to develop and implement innovative and meaningful curriculum. The major objective of this degree program is to help each teacher become clearer about their vision of education and how to implement that vision in their classroom and professional life. The program is designed for teachers in a nontraditional format emphasizing educational innovation, interdisciplinary study, integrative learning and meaning-centered learning.

Of the 48 units required for the degree, 24 are specifically designed for the program and will be restricted to students admitted into the program. The courses are to be taken as a cohort over a two-year period, one course per quarter. The elective units will be based on a personalized plan (including the master's project) under the direction of an advisor and faculty committee, that allows units to be taken outside the field of education.

Students who are interested in this program should contact the coordinator, Dr. Bob London, 880-5678.

Degree Requirements (48 units)

First year requirements

1. EDUC 695. Foundations of Education (4)
2. EELB 542. Seminar in Elementary/Bilingual Education (1 to 4)
3. ERDG 633. Multi-modal Meaning Systems in Literacy (4)

Second year requirements

1. EDUC 663. Introduction to Educational Research (4)
2. ESEC 662. School Curriculum (4)
3. ETEC 682. Interactive Multimedia (4)
4. Choose one of the following:
 - IS 696. Graduate Thesis (1-9)
 - IS 699. Graduate Thesis (1-9)

Note: Students will be directed to register in specially designated sections of the above courses open only to teachers in the program cohort. All the courses are appropriate for teachers in any grade level or school setting, including EELB 542 and ESEC 662.

Electives

1. Twenty-four units of individually selected coursework will be taken outside of education, as scheduled and approved by the student and faculty advisor.

M.A. IN INTERDISCIPLINARY STUDIES: E-MARKETING COMMUNICATION AND NEW MEDIA

Requirements (48 units)

The M.A. in Interdisciplinary Studies, E-Marketing Communication and New Media focuses on the development of comprehensive electronic marketing and communication initiatives which will involve building in design, writing skills, data mining functions such as customer relationship management and web-site content management, and ethical issues involved in the implementation of successful electronic communication programs.

For further information about this program, please contact Dr. J. S. (Vic) Johar in the Department of Marketing, College of Business and Public Administration, 880-5763. *This program will not be offered during the 2002-2003 academic year.*

Admission to the Program

1. Completion of an undergraduate degree from a recognized university or institution;
2. Have an overall grade point average of at least 2.5 and at least a GPA of 3.0 ("B") in the major;
3. Students not meeting this requirement must enroll in appropriate courses to bring the grade point average to this level;
4. Completion of at least five upper-division courses in MKTG and/or COMM each with a grade of "B" or better. These may include the program prerequisites of COMM 341 and MKTG 305;
5. Completion of the graduate entrance writing requirement. This can be met by taking the WREE examination, or by enrolling in an upper-division Expository Writing course, MGMT 306, or its equivalent. **Note:** Students who have received degrees outside the USA are required to take the WREE examination, or, enroll in MGMT 306 or its equivalent;
6. Students who have received an undergraduate degree from outside the USA, must pass the TOEFL Proficiency Exam with a score of 550 or higher, no exceptions. Refer to the Testing Office, JB-405, 880-5041/5045.

Advancement to Candidacy

1. Students must have achieved classified standing;
2. Students must submit a Request to Advance To Candidacy Form to the Program Coordinator after completing between 12 and 20 units of course work on an approved study plan with a minimum grade point average of "B;"
3. Changes in an approved study plan must be justified and have the written approval of the Program Coordinator;
4. Students advancing to candidacy must also submit a Graduate Project Form to the program coordinator prior to registering for COMM 686 or MKTG 686;
5. A graduation check may be requested after a student has advanced to candidacy;

6. The format and approval of the student's project for binding and placement in the library must follow university guidelines which can be found in the Graduate Student Handbook available in the Graduate Studies Office, AD-127;
7. Any additional general requirements not cited above and listed on [Page 364](#).

Requirements for Graduation

1. The program of study must include a minimum of 48 quarter units of course work, at least 70% of all course work taken must be in 500- or 600-level courses;
2. The program of study must not include more than eight units of independent study course work, excluding the units allowed for the project;
3. The program must include a synthesizing experience (project). This experience will satisfy the graduation writing requirement. The project will include an oral defense. Students may register for no more than eight units of project credit;
4. The program of study must include a course in research methods in the major discipline;
5. A grade point average of 3.0 ("B") must be earned in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program. Grades of "C-" (1.7) or less cannot be used toward the degree.

Prerequisite Courses (12 units)

1. MKTG 305. Marketing Principles (4)
2. COMM 309. Computer Mediated Communication (4)
3. COMM 311. Business and Professional Communication (4)

Degree Requirements (48 units)

Core Courses (32 units)

1. COMM 501. Ethical Aspects of Communication (4)
2. COMM 609. Digital Culture (4)
3. Four units chosen from:
COMM 697. Internship in Communication (4)
MKTG 575. Internship in Marketing (4)
4. Four units chosen from:
COMM 602. Quantitative Research Methods in Communication Studies (4)
MKTG 640. Advanced Marketing Research (4)
5. INFO 140A. The World Wide Web and Multimedia: Web Page Design (2)
6. INFO 140C. The World Wide Web and Multimedia: Multimedia (2)
7. MKTG 540. E-Marketing (4)
8. MKTG 610. Consumer and Organizational Buying Behavior (4)
9. MKTG 690. Advanced Topics in Marketing (4)

Project/Thesis (4-8 units)

1. Four to eight units chosen from:
COMM 686. Graduate Project (4-8)
MKTG 686. Graduate Project (4-8)

Electives (8-12 units)

1. Eight to 12 units chosen from:
COMM 380. Visual Communication (4)
COMM 502. Communication Law and Policy (4)
COMM 589. Topics in Computer Mediated Communication (4)
COMM 610. Media and Intercultural Relations (4)
COMM 671. International Communication (4)
COMM 690. Seminar in Organizational Communication (4)
COMM 695. Graduate Independent Study (4)
MKTG 350. Logistics (4)
MKTG 420. Advertising (4)
MKTG 446. Advertising Campaign (4)
MKTG 590. Seminar in Marketing (4)
MKTG 620. Advertising Management (4)
MKTG 624. Marketing for Entrepreneurs (4)
Note: No more than 50 percent of the total course credits for this program can be taken in the College of Business and Public Administration.

COURSE OFFERINGS IN INTER-DISCIPLINARY STUDIES (IS)

Students in the M.A. in Interdisciplinary Studies program may use one of the following courses for graduate level independent study: ADMN 695, EDUC 601, HUM 695, NSCI 695, SSCI 695.

Graduate/Postbaccalaureate

May not be taken by undergraduate students

696. Graduate Project

Preparation of the project for the M.A. under the direction of a faculty member from the student's committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the M.A. Prerequisite: advancement to candidacy. (Credit to be arranged: 1 to 9 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Graduate Thesis

Preparation of the thesis for the Master of Arts under the direction of a faculty member from the student's committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of nine credits applicable toward the Master of Arts. Prerequisite: advancement to candidacy. (Credit to be arranged: 1 to 9 units)

KINESIOLOGY

Department of Kinesiology

Health and Physical Education Building, Room 120
880-5349

These courses are offered in support of the Master of Arts in Education, Kinesiology Option.

COURSE OFFERINGS IN KINESIOLOGY (KINE)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Graduate Seminar

Examination of selected disciplinary and professional issues in physical education through critical analysis of literature and research findings. Formerly PE 600. (2 units)

623. Sport and Social Issues

Social aspects of sport including social values, race, gender, ethnicity and social deviance. Formerly PE 623 and 630. (4 units)

624. Sport Psychology

The study of underlying psychological factors in sports. To include educational implications, strategies with young athletes, and dynamics of the sport group. Formerly PE 624. (4 units)

630. Physical Education for Special Populations

Physical activity assessment, and program development for individuals with disabilities. Formerly PE 630. (4 units)

670. Leadership in Physical Education

Theory and analysis of leadership behavior in physical education. Emphasis on developing leadership knowledge, qualities, and skills applicable to diverse physical activity settings. (4 units)

681. Exercise and Sport Science

Includes discussion of physical activity and fitness across the lifespan, adaptations in exercise testing protocol and exercise prescription for individuals with disabilities, and epidemiological research of health benefits associated with physical activity and fitness. Emphasis on issues of children's fitness and assessment. Formerly PE 681. (4 units)

685. Analysis of Human Movement

Theory and application of techniques used to analyze and describe human movement. (4 units)

MATHEMATICS

Master of Arts in Mathematics

Department of Mathematics
Jack Brown Hall, Room 370
880-5361

FACULTY: Susan Addington, Joseph Chavez, Hajrudin Fejzic, Davida Fischman, Christopher Freiling, Gary Griffing, J. Terry Hallett, Ilseop Han, Zahid Hasan, Yuichiro Kakihara, Dolores Matthews, Shawnee McMurrin, Jim Okon, Chetan Prakash, Dan Rinne, John Sarli, Charles Stanton, Joel Stein, Robert Stein, Rolland Trapp, Belisario Ventura, Paul Vicknair, Laura Wallace, Wenxiang Wang, Peter Williams (Chair)

MASTER OF ARTS IN MATHEMATICS

Requirements (48 units)

The Master of Arts degree in Mathematics is a flexible program that allows students to tailor their studies to individual career goals. The Community College Teaching/General Track emphasizes mathematical content courses and is appropriate not only for college teaching but also for students considering further graduate work. The Mathematics Education Track is especially appropriate for teachers at the 6-12 levels. While both tracks meet the minimum state requirements for community college teaching, students with this as their career goal should select a program containing at least 36 units of mathematics content courses.

Careful advising is essential to ensure that prerequisites for courses are met, and that the course work selected is appropriate for the student's career goals.

Admission to the Program

In addition to the general requirements of the university, which include a baccalaureate degree from an accredited college, specific requirements for admission to the program are:

1. Community College Teaching/General Track

Successful completion with a grade of at least "B" (3.0) of course work in calculus, abstract algebra, analysis, number theory and probability deemed equivalent to the core of the mathematics major at California State University, San Bernardino.

Mathematics Education Track

Successful completion with grade of at least "B" (3.0) of course work in calculus, linear algebra, analysis and proof, number theory and probability deemed equivalent to the core of the mathematics minor at California State University, San Bernardino.

Students who do not meet these criteria may be admitted as conditionally classified graduate students following review by the Department of Mathematics Graduate Committee;

2. Submission of a completed M.A. in Mathematics application form;
3. Completion of the graduate entrance writing requirement;

4. Three letters of recommendation;
5. A letter of not more than three pages, outlining background, experience and interests. Be sure to include reasons for seeking admission to this program and career goals.

Advising

Each graduate student should seek advising from the graduate coordinator or other departmental faculty before enrolling in their program. In consultation with their advisor, they will develop an appropriate course of study based on their preparation and interests. The specific program must be approved by the department graduate committee prior to Advancement to Candidacy.

In the latter part of the program, a student will also need a project advisor. Such an advisor should be selected two or three quarters before enrolling in MATH 600. Graduate Project, which is required of all masters candidates.

Advancement to Candidacy

In order to be advanced to candidacy, the student must:

1. Achieve classified status;
2. Submit a formal program of graduate work prepared in consultation with and approved by the departmental graduate committee;
3. Complete at least 15 quarter units and not more than 20 units of applicable work as a graduate student at this university, with a grade point average of at least 3.0 ("B");
4. Gain final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. Advancement to candidacy for the degree;
2. A minimum of 48 quarter units of acceptable graduate level work as specified below in the formal program under either the Community College Teaching/General Track or the Mathematics Education Track;
3. No less than 32 units completed in residence at this university;
4. Completion of a graduate project (MATH 600). A project proposal must be approved by the departmental graduate committee no later than the quarter preceding enrollment in MATH 600. The written project satisfies the graduation writing requirement. Successful completion of MATH 600 also includes an oral presentation of the project to the department. Guidelines for submitting a project proposal and for the project itself are available from the department office;
5. A grade point average of at least 3.0 ("B") in the core courses as well as an overall grade point average of at least 3.0 ("B") in the program, with no course grade being less than "B-;"
6. Any additional general requirements not cited above and listed on [Page 364](#).

Degree Requirements (48 units)

Core Courses (16 units)

1. MATH 604. Seminar in Problem Solving I (4)
2. MATH 614. Studies in Geometry (4)
3. MATH 616. Studies in Algebra (4)
4. MATH 618. Studies in Analysis (4)

Electives (28 units)

Community College Teaching/General Track

Twenty-eight units of electives selected as follows:

1. At least 16 units from approved 600-level mathematics courses.
2. A minimum of 12 additional units in approved mathematics courses at the 400-, 500-, or 600-level not included in the core of the mathematics major or used to satisfy any other requirements in the master's program.

Mathematics Education Track

Twenty-eight units of electives selected from the following and including at least 16 units at the 600-level:

1. ESEC 666. Techniques and Application of Mathematics Education (4)
2. ESEC 672. Educational Assessment in Mathematics Teaching (4)
3. Approved 400-level courses in mathematics not in the core of the major.
4. Approved 500- or 600-level courses in mathematics not used to satisfy any other requirement.

Graduate Project (4 units)

1. MATH 600. Master's Degree Project (4)

COURSE OFFERINGS IN MATHEMATICS (MATH)

Upper Division

510. Topics in Mathematics

Study of selected areas of advanced mathematics. May be repeated for credit with consent of instructor as topics change. Prerequisite: senior or graduate standing. (4 units)

529. Advanced Geometry

Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. Prerequisites: MATH 129 or equivalent, 331 and 345. (4 units)

545. Abstract Algebra I

An introduction to algebraic structures, including groups, rings and fields. Prerequisites: MATH 331, 345 and 355. (4 units)

546. Abstract Algebra II

Continuation of MATH 545. Prerequisite: MATH 545. (4 units)

553. Analysis I

Continuous and differentiable functions, infinite series. Uniform convergence, computation with series, functions represented by integrals, theory of integration. Prerequisites: MATH 252 and 355. (4 units)

554. Analysis II

Continuation of MATH 553. Prerequisite: MATH 553. (4 units)

555. Introduction to Point-Set Topology

Topics to include topological and metric spaces, compactness, product spaces, connectedness, separation properties. Prerequisite: MATH 355. (4 units)

557. Complex Variables

Analytic and harmonic functions, power series, Cauchy's Theorem and Cauchy's Formula. Prerequisites: MATH 252, 355 and 553. (4 units)

565. Mathematical Statistics

Likelihood ratio, estimators, distributions of estimators, theory of hypothesis testing, linear statistical models. Prerequisite: MATH 465. (4 units)

573. Mathematical Methods of Physics III

A continuation of MATH 473/PHYS 473 with emphasis on advanced topics relevant to physics. (Also offered as PHYS 573. Students may not receive credit for both.) Prerequisites: MATH 331 and 473 or PHYS 473. (4 units)

576. Introduction to Mathematical Models

Topics from linear and probabilistic models, computer simulation, difference and differential equation models. Prerequisites: CSCI 201, MATH 331 and 465. (4 units)

595. Independent Study

An independent study course for senior mathematics majors. Prerequisites: MATH 331 and 553, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Master's Degree Project

Graded credit/no credit. Prerequisites: graduate standing and consent of the graduate coordinator. (4 units)

604. Seminar in Problem Solving I

A problem solving seminar emphasizing induction and analogy in the style of George Polya. Prerequisites: MATH 252, 331, and 372. (4 units)

605. Seminar in Problem Solving II

Continuation of MATH 604. Prerequisite: MATH 604. (4 units)

606. Seminar in Problem Solving III

Continuation of MATH 605. Prerequisite: MATH 605. (4 units)

610. Topics in Mathematics

Study of selected areas of advanced mathematics to be determined by the instructor. May be repeated for credit with consent of instructor as topics change. Prerequisite: graduate standing. (4 units)

611. Operations Analysis

Scientific approach to the resolution of operational problems. Structure and function of models and decision strategy commonly used in national policy analysis including measures of effectiveness, uncertainty and the misuse of modeling. (Also offered as MSCI 611. Students may not receive credit for both.) May not be counted toward fulfilling the requirements in the mathematics major. Prerequisite: one of the following: MSCI 210, PSYC 210, SSCI 215, MATH 305 or 350 or equivalent. (4 units)

614. Studies in Geometry

Advanced topics in affine, projective, elliptic, and hyperbolic geometry. Comparison of synthetic and analytic methods of proof. Prerequisites: MATH 529, 545 and admission to the M.A. in Mathematics program. (4 units)

616. Studies in Algebra

Advanced topics in algebra to include constructability, transcendence and solvability of groups and equations. Prerequisites: MATH 546 and admission to the M.A. in Mathematics program. (4 units)

618. Studies in Analysis

Theory of multivariable calculus with applications, to include the Inverse Function Theorem, as well as Stokes' and Green's theorems. Prerequisites: MATH 553; either 554, 555, or 557; and admission to the M.A. in Mathematics program. (4 units)

678. Teaching Practicum

Supervised practice in individual and/or classroom teaching. May be repeated for a total of four units. Prerequisite: admission to the master's program in teaching with a major in mathematics. (2 units)

695. Graduate Independent Study

An independent study course for graduate students in mathematics. Prerequisites: advancement to candidacy in the M.A. in Mathematics program; a grade point average of at least 3.5 in courses in the program; consent of the instructor and approval by the graduate committee. A written proposal for a project must be submitted to the graduate committee no later than the ninth week of the quarter preceding that in which the independent study is to be pursued. (Credit to be arranged: 2 to 4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

MUSIC

Department of Music

Performing Arts Building, Room 111
880-5859

The following courses are offered in support of various graduate degrees offered by the university.

COURSE OFFERINGS IN MUSIC (MUS)

INDEPENDENT STUDY

Graduate/Postbaccalaureate

May not be taken by undergraduate students

628. Special Projects

Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. A total of eight units may apply toward graduation. Prerequisites: graduate standing and consent of instructor. (Credit to be arranged: 1 to 4 units)

MUSIC EDUCATION

Graduate/Postbaccalaureate

May not be taken by undergraduate students

602. Foundations of Music Education

History of music education in America including the various music philosophies and national trends that have influenced the current music teaching profession. (4 units)

603. Music Learning Theories

Learning sequences in musical development including an understanding of music aptitude, rhythm and tonal audition, and the development of music literacy. Prerequisite: completion of MUS 315 or equivalent, or consent of instructor. (4 units)

604. Advanced Instrumental Music Teaching

Development of teaching strategies and techniques for band and orchestral instrument. Prerequisite: MUS 603 or consent of instructor. (4 units)

NATIONAL SECURITY STUDIES

Master of Arts in National Security Studies

Certificate

Intelligence Methodology

National Security Studies Office

Social and Behavioral Sciences Building, Room 112
880-5534

FACULTY: Mark Clark (Director), William Green, Ralph Salmi

MASTER OF ARTS IN NATIONAL SECURITY STUDIES

Requirements (46 units)

The Master of Arts in National Security Studies is a professionally oriented, interdisciplinary, graduate-level program housed within the College of Social and Behavioral Sciences. The program is designed to develop an understanding of the substance and principles of defense policy analysis, strategic planning and arms control in relation to the contemporary international environment. Flexibility within elective courses permits the student to emphasize research in national security issues of his or her special interests.

The program is relevant to established career personnel in defense analysis and related specialties, the military services, the civil service and the intelligence community. Additionally, the program is structured to provide motivated persons holding a Bachelor of Arts degree and/or Bachelor of Science degree from an accredited institution with the higher educational skills necessary for entry into the above mentioned career fields or to pursue doctoral studies.

The program is intended for evening students primarily and, therefore, classes are predominantly scheduled between 6 and 10 p.m.

Admission to the Program

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

1. A baccalaureate degree from an accredited college or university;
2. Satisfy the National Security Studies graduate admissions committee that sufficient preparation and a satisfactory course of study has been pursued in preparation for graduate study. The committee will notify individual applicants if the GRE General Test is required; (If the test is required and the GRE test results are not received in time for the entry term, admission will be in conditionally classified graduate standing.)
3. A minimum cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the student's undergraduate major;

4. Completion of the graduate entrance writing requirement;
5. Competence in the following prerequisite courses or their equivalents:

MATH 110. College Algebra

PSCI 203. American Government

PSCI 484. National Security Policy (prerequisite for the core courses)

Competence in these areas may be demonstrated by:

A. Formal completion of the course or its equivalent,

OR

B. Credit by examination (not applicable to PSCI 484. National Security Policy);

6. Submission to the National Security Studies Admissions Committee of a brief statement (one or two double-spaced typewritten pages) of the student's preparation for graduate study and professional aspirations following receipt of the master's degree;
7. Submission of three letters of recommendation from individuals familiar with the student's academic or professional work and potential to complete the program successfully. Letters must come directly from the writer on National Security Studies forms.

Students who meet the requirements for admission to graduate study, but who do not meet the program requirements, may be admitted to graduate study in unclassified post-baccalaureate status or to the program in conditionally classified graduate standing. When the specified deficiencies are removed, student status is changed from conditionally classified to classified. (Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.) No more than 20 quarter units of national security studies course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Selected a graduate advisor to supervise the course of study;
3. Completed at least 16 quarter units of national security studies program course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed a graduate program approved by the student's advisor, the national security studies program director and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 46 quarter units of acceptable graduate-level work, with at least 36 quarter units completed in residence at California State University, San Bernardino. Thirty-two quarter units must be in 600-level courses. Students enrolling in approved 300- or 400-level elective courses must enroll concurrently in a two-unit graduate-level independent study course. A maximum of two 300- or 400-level courses may be taken for credit;
2. A grade point average of at least 3.0 ("B") in all national security studies program courses taken;

3. Choose Option A or B:
 - A. Completion of acceptable comprehensive final written and oral examinations;
 - B. Completion and defense of an original master's thesis;
4. The graduation writing requirement will be satisfied by achieving a minimum grade point average of 3.0 ("B") in all three core courses. Each core course will allow the student to develop competence in three forms of writing traditional to the field:
 - A. Critical book reviews (PSCI 600),
 - B. Chapter length essay (PSCI 601),
 - C. Journal length essay and the process of "peer review;"
5. Any additional general requirements not cited above and listed on [Page 364](#).

Classified graduate students in the Master of Arts program must complete their degree requirements within five years of admission to the program. Students in classified status who fail to register for at least one course in the program each quarter will automatically be declassified. PSCI 698. Extended Enrollment must be taken if another course is not taken during a given quarter.

The instructor in each 600-level course will complete an evaluation of each student's performance and potential to complete the program successfully. These evaluations will be reviewed by the program director and maintained in the student's file for early consultation with the student about his or her future prospects in the program.

The Master of Arts in National Security Studies is a thesis option course of study requiring either written and oral comprehensive examinations (to be taken in the last quarter of program course work) or a thesis. Students with less than a 3.0 grade point average in the program will not be permitted to take the examinations or propose a thesis. All students are required to take the prerequisite and core courses. In addition, students are required to take either a Field (four courses required) or two Subfields (two courses are required for each subfield). In addition to the course selection, students will be required to master the associated literature.

Comprehensive Examination

Comprehensive examinations must be taken in the core and either one field or two subfields. The comprehensive examination committee for each candidate will consist of the core advisor and the advisor of the field or subfields. The examinations will be graded credit/no credit.

An oral examination by the student's committee follows successful completion of the written examination. The oral examination is open for public attendance, but not participation. Should the candidate fail one or more written or oral examination areas, the entire oral or written examination may be repeated one time after remedial course work or study is completed. The scope and deadline for completion of this remedial work will be determined by the student's examination committee at a post-examination conference.

Students must enroll in the Political Science Comprehensive Examination.

Thesis

The criteria for determining who will be allowed to choose the thesis option will be determined by the proposed thesis committee. Students are still required to develop a course of study consistent with the core and either one field or two sub-fields, as noted above. After completion of a minimum of 30 quarter units, the student will request three faculty to form a preliminary committee, at least two of whom have instructed a course that the student has taken in the program.

Prerequisite courses (12 units)

1. MATH 110. College Algebra (4)
2. PSCI 203. American Government (4)
3. PSCI 484. National Security Policy (4)

Degree Requirements (46 units)

1. PSCI 600. Theory and History of Strategy (4)
2. PSCI 601. Strategic Systems and Strategic Thought (4)
3. PSCI 602. Regional Security (4)
4. Four units chosen from:
 - MATH 611. Operations Analysis (4)
 - PSCI 609. International Relations Theory (4)

Note: MATH 611 requires a prerequisite of a statistics course.

Field or Subfield (16 units)

Students must take either A or B below:

A. Field: Regional Area Concentration (16 units)

Eurasia

1. PSCI 611. Regional Security of Eurasia (4)
2. Twelve units chosen from the following:
 - GEOG 609. Seminar in the Geography of the Former and Post-Soviet Union (4)
 - HIST 521. The Soviet Union (4)
 - PSCI 304. East European Political Systems (4)
 - PSCI 305. Russian Foreign Policy (4)
 - PSCI 507. The Politics of Central Asia (4)
 - PSCI 581. Political Economy of Russia (4)
 - PSCI 605. Topics in Strategy (Russian Foreign Policy) (4)

B. Subfields: Students must choose two subfields of eight units for a total of 16.

Latin American Regional Security (8 units)

1. GEOG 621. Seminar in the Geography of Latin America (4)
2. HIST 603. Seminar in Modern Military History (may be repeated for a maximum of eight units) (4)

U.S. Foreign Policy (8 units)

1. Eight units chosen from:
 - PSCI 325. American Foreign Policy (4)
 - HIST 556. Foreign Relations of the United States (4)
 - ECON 630. International Economic Issues (4)

Instruments of National Security Policy (8 units)

1. Eight units chosen from:
 - PSCI 590. Seminar in International Relations (Naval Strategy/Maritime Policy) (4)
 - PSCI 621. Strategic Intelligence (4)
 - PSCI 622. Arms Control: Theory and Practice (4)

Legal Approaches to Security (8 units)

1. PSCI 622. Arms Control: Theory and Practice (4)
 2. Four units chosen from:
 - PSCI 500. International Law (4)
 - PSCI 604. Seminar in International Law (4)
 - PSCI 609. International Relations Theory (4)
- Note:** PSCI 609 will count for this subfield only if not taken as part of the core requirements.

Intelligence Studies (8 units)

1. PSCI 621. Strategic Intelligence (4)
2. SOC 606. Sociology of Terrorism (4)

Warfare Studies (8 units)

1. Eight units chosen from:
 - PSCI 590. Seminar in International Relations: Low Intensity Conflict (4)
 - PSCI 590. Seminar in International Relations: Naval Strategy and Maritime Policy (4)
 - PSCI 590. Seminar in International Relations: Evolution of Technology and Warfare (4)

Electives (14 units)

1. Fourteen units chosen from any course listed above not taken to meet a field or sub-field requirement, plus any of the following:
 - ENG 631. Approaches to Professional Writing (4)
 - HIST 382. History of the Middle East (4)
 - MATH 611. Operations Analysis (4) (if not taken as part of the core requirements)
 - PSCI 590. Middle East Politics (4)
 - PSCI 699. Thesis (2) for a maximum of (8)
 - PA 671. Defense Budgeting and Management (4)
 - SSCI 695B. Directed Graduate Studies (may be repeated for a maximum of ten units) (2)

Culminating Experience

1. Students must complete A or B below:
 - A. Successful completion of the comprehensive written and oral examinations;
 - B. Defense of an original master's thesis. Forty-two units of course work and a minimum of four units of thesis units must be completed before the degree will be awarded.

Internship

Some internships in government service are occasionally available on a competitive basis. Other nonprofit research internships are available.

Transfer Credit

A maximum of 10 quarter hours of acceptable postbaccalaureate credit taken at an accredited institution of higher learning may be applied toward the requirements for the M.A. in National Security Studies. Selected Department of Defense courses (War College, Command and Staff College and Squadron Officers School) have been approved for transfer credit. Determination of acceptability of transfer credit requests is made upon receipt of official transcripts by the Office of Records, Registration and Evaluations and upon recommendation of the director of national security studies.

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Refer to [Page 61](#) for additional certificate information.

Certificate in Intelligence Methodology

Prerequisite:

1. Graduate standing.

Certificate Requirements (25 units)

1. PSCI 571. Organization of U.S. Intelligence (1)
2. PSCI 621. Strategic Intelligence (4)
3. GEOG 306. Remote Sensing of Environment (4)
4. Four units chosen from:
 - GEOG 406. Digital Image Processing (4)
 - GEOG 605. Spatial Data Presentation (4)
5. A minimum of twelve units not previously taken, chosen from:
 - GEOG 406. Digital Image Processing (4)
 - GEOG 605. Spatial Data Presentation (4)
 - GEOG 609. Geography of the Former and Post-Soviet Union (4)
 - PSCI 325. American Foreign Policy (4)
 - PSCI 484. National Security Policy (4)
 - PSCI 590. Seminar in International Relations: Political Intelligence (4)
 - PSCI 590. Seminar in International Relations: Evolution of Technology and Warfare (4)
 - PSCI 604. Seminar in International Law (4)
 - PSCI 622. Arms Control (4)
 - PSCI 695. Directed Graduate Study (2-4) for a maximum of (8) (Research or Intern Project)
 - SOC 606. Sociology of Terrorism (4)

NATURAL SCIENCES

College of Natural Sciences

Biological Sciences Building, Room 132
880-5300

The following courses are offered in support of various graduate degrees offered by the university.

COURSE OFFERINGS IN NATURAL SCIENCES (NSCI)

Upper Division

595. Independent Study

Research in special topics including library studies, field and/or laboratory work in one of the natural sciences disciplines under the direction of a faculty member. A maximum of five units in NSCI 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 5 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

604. The Nature and History of Science

Brief survey of the development of science from myth through Greek thought to selected topics in contemporary sciences. (4 units)

612. Developing Elementary Science Laboratories

Hands-on laboratory activities which involve the design, implementation and perfection of science demonstrations for the elementary grades. (2 units)

633. Developing Chemistry Laboratories

Hands-on laboratory activities which involve the design, implementation and perfection of science demonstrations for chemistry. (1 unit)

634. Developing Geoscience Laboratories

Hands-on laboratory activities which involve the design and implementation of science demonstrations for the geosciences. Formerly NSCI 630. (1 unit)

635. Developing Life Science Laboratories

Hands-on laboratory activities which involve the design and implementation of science demonstrations for the life sciences. Formerly NSCI 620. (1 unit)

636. Developing Physics Laboratories

Hands-on laboratory activities which involve the design and implementation of science demonstrations for physics. Formerly NSCI 622. (1 unit)

645. Issues in Science, Technology and Society

Seminar in scientific topics of current social interest. (2 units)

694. Master's Project

Prerequisites: advancement to candidacy and consent of the graduate coordinator. (4 units)

695. Directed Graduate Studies

Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the student's committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of Dean of Graduate Studies. (Credit to be arranged: 1 to 6 units)

NURSING

Master of Science in Nursing

General Track
School Nurse

Department of Nursing

Health and Physical Education Building
Room 215, 880-5380

FACULTY: Cheryl diPretoro, Edna Domingo, Janice Layton, Susan Lloyd, Susan McGee, Mary Molle, Marcia Raines (Chair), Patricia St. Hill, Linda Sitton, Leonie Sutherland, Dorothy Thurman, Anna Wilson, Mary Wilson

MASTER OF SCIENCE IN NURSING

Requirements (65-66 units)

The Department of Nursing offers a graduate program leading to a Master of Science in Nursing with a clinical focus in advanced community-based nursing. The program is designed to educate professional nurses for leadership and services in culturally diverse, pluralistic communities. Graduates are prepared for advanced certification in community health nursing or home health nursing; and select a functional role concentration of clinical case manager or nurse educator.

Graduates of the MS program will work collaboratively with other health care providers and participate effectively in interdisciplinary models of health care delivery. They are prepared to assume leadership roles in the creation of health care systems which will provide equality of access, high standards of care and caring, and the cost-effective use of resources.

The M.S. in Nursing for School Nurses is a 66-unit program designed to fulfill the California State requirements for the School Nurse Credential. The graduate will concurrently receive the Master of Science in Nursing and the School Nurse Credential.

Admission to the Program

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

1. A baccalaureate degree in nursing from an accredited program, OR a baccalaureate degree in a discipline related to nursing. Applicants with non-nursing baccalaureate degrees must meet competencies in research, leadership, and community health. Competency may be verified through coursework, testing or certification;
2. A grade point average of 3.0 ("B") in the last 60 semester (90 quarter) units attempted;
3. Current licensure to practice nursing in California (RN) and one year of part-time or full-time practice as an RN;
4. Successful completion of an undergraduate statistics course;
5. Completion of the graduate entrance writing requirement.

Students pursuing the School Nurse Credential must also meet the following requirements:

6. A current First Aid card;
7. A current Cardiopulmonary Resuscitation card, Level C.

Recommendation for the Professional Credential

In order to be recommended for a credential, the student must have:

1. Completed all prescribed coursework with a grade point average of 3.0 ("B") or better;
2. A current First Aid card and current Cardiopulmonary card.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed at least 30 quarter units of course work with a minimum grade point average of 3.0 ("B");
3. Been accepted by a major advisor for the Department of Nursing who will also accept chairing the student's project/thesis committee;
4. Filed an approved program for completion of the graduate degree. This program must be prepared in consultation with the major advisor and approved by the Program Coordinator and the Dean of Graduate Studies;
5. Demonstrated professional competence and integrity in academic and clinical practice settings.

Requirements for Graduation

In addition to the general requirements of the university:

1. Advancement to candidacy for the MS degree in nursing;
2. A minimum of 65 to 66 quarter units of designated courses as approved on the petition for advancement to candidacy;
3. A grade point average of at least 3.0 ("B") in all graduate course work fulfilling the requirements for the M.S. in Nursing, and grades of "C" (2.0) or better in all elective courses;
4. Either A or B below:
 - A. Completion and defense of an acceptable thesis;
 - B. Completion and presentation of an acceptable clinical project.

Degree Requirements (65-66 units)

Core Courses

1. MSCI 622. Advanced Statistics for Health Science Professionals (4)
2. NURS 600. Concepts of Advanced Nursing Practice (6)
3. NURS 610. Community Based Nursing I (6)
4. NURS 615. Advanced Nursing Theory (4)
5. NURS 625. Nursing Research Design (4)
6. One of the following course sequences:

Clinical Project

- NURS 697A. Clinical Project in Nursing (2)
NURS 697B. Clinical Project in Nursing (2)
NURS 697C. Clinical Project in Nursing (2)

Thesis Research

- NURS 699A. Thesis Research in Nursing (2)
 NURS 699B. Thesis Research in Nursing (2)
 NURS 699C. Thesis Research in Nursing (2)

Nursing Track (65 units)

1. NURS 597. Issues and Trends in Health Care (4)
2. NURS 620. Community Based Nursing II (6)
3. NURS 630. Specialized Nursing Roles (3)
4. Four units chosen from:
 - HSCI 451. Principles of Epidemiology (4)
 - HSCI 501. Foundations I: Health Status and Determinants of Health (4)
 - HSCI 620. Advanced Topics in Epidemiological Methodology (4)
5. One of the following options:
 - Clinical Case Specialist (10 Units)**
 - NURS 640. Clinical Case Manager I (5)
 - NURS 641. Clinical Case Manager II (5)
 - Nurse Educator (10 Units)**
 - NURS 650. Nurse Educator I (5)
 - NURS 651. Nurse Educator II (5)
6. Eight units of electives chosen in consultation with the graduate nursing advisor related to student's functional role emphasis. The following list includes recommended courses with substitutions to be approved by the graduate advisor.
 - ETEC 546. Computer Based Technology in Education (4)
 - ETEC 544. Construction of Instructional Materials (4)
 - FIN 503. Financial Management Concepts (4)
 - HSCI 602. Management, Organization and Planning in Health Services (4)

Nursing and other electives which are appropriate.

School Nurse Track (66 units)

1. NURS 502. Health Assessment of Children and Adolescents (4)
2. NURS 503. Principles of School Nursing Practice (4)
3. NURS 504. School Nursing Internship (4)
4. Four units chosen from:
 - HSCI 332. Health Education in Elementary Schools (4)
 - HSCI 333. Health Education in the Secondary School (4)
5. HSCI 334. School Health Administration and Planning (4)
6. HSCI 364. Drug and Alcohol Use and Abuse (4)
7. HSCI 374. Basic Audiometry and Hearing Problems (4)
8. ESPE 530. Psychology and Education of Exceptional Individuals (4)
9. ESPE 635. Effective Communication with Professionals and Families (4)

Students will be advised on appropriate alternative courses if HSCI 332, 333, 334, 364, 374, or ESPE 530 were taken at the undergraduate level.

COURSE OFFERINGS IN NURSING (NURS)

Upper Division**500. Advanced Topics in Nursing**

Selected advanced nursing topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change. Prerequisite: upper-division standing or consent of instructor. (4 units)

502. Health Assessment of Children and Adolescents

Application of principles of physical assessment and normal growth and development to the determination of health status of children and adolescents. Serves as a foundation for nursing interventions to promote health and prevent disease. Two hours lecture and six hours laboratory. Prerequisite: consent of department. (4 units)

503. Principles of School Nursing Practice

Role of the school nurse in relation to current accepted practice in school health programs as pertaining to the health needs of school children and their communities. Prerequisite: consent of department. (4 units)

504. School Nursing Internship

Supervised practice in public school nursing working with credentialed school nurses at the elementary and secondary level. Course taken at the completion of the program. Graded credit/no credit. Prerequisite: consent of department. (4 units)

595. Independent Study

Research conducted under the direction of a faculty member. A total of six units in NURS 595 may be applied toward graduation. Prerequisites: NURS 422, senior standing, a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 6 units)

597. Issues and Trends in Health Care

Major issues and trends affecting availability, allocation and access to health care resources for diverse populations. Issues such as poverty, homelessness, violence, substance abuse, and changing disease patterns are explored in relation to health care reform and the current social and political environment. Formerly NSCI 597. Prerequisite: senior or graduate standing. (4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Concepts for Advanced Nursing Practice

Theoretical basis for advanced nursing practice in culturally diverse communities. Nursing informatics and resource management in the context of professional ethics and standards. Application of critical thinking in providing leadership and service to underserved populations with complex needs. Four hours lecture and six hours laboratory. Prerequisite: classified graduate standing in MSN program. (6 units)

610. Community Based Nursing I

Provision of nursing leadership to diverse populations based on community assessment and resource analysis, interdisciplinary program planning, implementation of nursing services and program outcome evaluation. Application to an at-risk population in need of primary and secondary prevention or one primarily in need of tertiary prevention (home health nursing). Three hours lecture and nine hours laboratory. Prerequisite: NURS 600. (6 units)

615. Advanced Nursing Theory

Concepts, models and theories in the context of scientific development and the historical development of nursing as an applied science. Comparative analysis of evolving nursing theories with regard to criteria for theory building; major concepts, theoretical perspectives, testability and practicality for application in clinical practice, teaching and research. Prerequisite: classified graduate standing in the MSN program or consent of instructor. (4 units)

620. Community Based Nursing II

Planning nursing services in collaboration with other health professionals and consumers. Priority setting and nursing program development based on community needs considering equity, cost factors, and risk management. Measurement of outcomes to evaluate quality and efficiency of nursing care. Application in a practice setting of either community health nursing or home health nursing. Three hours lecture and nine hours laboratory. Prerequisite: NURS 610. (6 units)

625. Nursing Research Design

Research concepts and methods with applications to advanced nursing practice. Role of research in improving nursing services to culturally diverse communities. Provides foundation for master's thesis or clinical project. Prerequisite: classified standing in the MSN program or consent of instructor. (4 units)

630. Specialized Nursing Roles

Builds on theoretical basis for advanced clinical nursing practice. Simulations focusing on the clinical nurse specialist and nurse educator roles. Interactional opportunities to develop competencies in collegial leadership, decision-making and collaborative problem solving. Two hours lecture and three hours laboratory. Prerequisite: Nursing 620. (3 units)

640. Clinical Case Manager I

Integration and coordination of health services for culturally diverse, underserved populations requiring extensive nursing services over the long term. Focus on client-advocacy, shared decision making, and client satisfaction regarding cost and quality of care. Application in community health or home health nursing. Three hours lecture and six hours laboratory. Prerequisite: Nursing 630. (5 units)

641. Clinical Case Manager II

Role of clinical case manager across the health care continuum. Focus on interdisciplinary collaboration and use of nursing informatics in clinical practice and program management. Application in community health or home health nursing. Three hours lecture and six hours laboratory. Prerequisite: NURS 640. (5 units)

650. Nurse Educator I

Societal and health care factors affecting nursing curricula and instruction. Design and planning in nursing education, staff development and patient education programs. Three hours lecture and six hours laboratory. Prerequisite: NURS 630. (5 units)

651. Nurse Educator II

Concepts underlying the implementation and evaluation of programs and learning outcomes in nursing education. Application to nursing education, staff development and patient education programs. Three hours lecture and six hours laboratory. Prerequisite: NURS 650. (5 units)

697. Clinical Project in Nursing

Independent clinical project conducted under the direction of a major program faculty advisor. Students selecting the clinical project option must complete NURS 697A, 697B and 697C for a total of six units. Prerequisites: advancement to candidacy and NURS 625.

A. (2 units)

B. (2 units)

C. (2 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis Research in Nursing

Independent graduate research conducted under the direction of a major program faculty advisor. Students selecting the thesis option must complete NURS 699A, 699B and 699C for a total of six units. Prerequisites: advancement to candidacy and NURS 625.

A. (2 units)

B. (2 units)

C. (2 units)

POLITICAL SCIENCE

Department of Political Science

Social and Behavioral Sciences Building, Room 112
880-5535

The following courses are offered in support of graduate degree programs offered at this university.

COURSE OFFERINGS IN POLITICAL SCIENCE (PSCI)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Theory and History of Strategy

Examination of the literature on strategy, from ancient to modern times and from various cultures. Both theoretical and practical methods will be covered. Prerequisite: PSCI 484 or equivalent. (4 units)

601. Strategic Systems and Strategic Thought

Evolution of strategic thought, policy, doctrine and force structure relative to national security objectives. Prerequisite: PSCI 484 or equivalent. (4 units)

602. Regional Security

Examination of security problems in various regions of the world using both theoretical and policy-related approaches. Prerequisite: PSCI 484 or equivalent. (4 units)

604. Seminar in International Law

Survey of the literature and a study of the Law of the Sea, Aerospace Law, and International Regulation of the use of Force. (4 units)

605. Topics in Strategy

Intensive study of a specific phase or area of defense strategy developed by the instructor. May be repeated once for credit, as topics change, with consent of student's advisor. (4 units)

609. International Relations Theory

An examination of the theoretical literature on international relations, including issues of war and peace, foreign relations, and international security. Formerly PSCI 605F. (4 units)

610. Proseminar in Political Science

Survey of the concepts and ideas that political scientists study, how they approach the study of political phenomena, and what methods they employ in their analysis. The seminar will include discussion of the relationships of the discipline to other social science disciplines and the unique contributions political science has made to knowledge in general and in the social sciences. Prerequisite: consent of instructor. (4 units)

611. Regional Security of Eurasia

Strategic factors in Russia and other post-Soviet states, with emphasis on the relations between the military and society. (4 units)

621. Strategic Intelligence

The development and practice of national intelligence estimates and reporting. Formerly a topic under PSCI 605. Prerequisite: PSCI 571 or consent of instructor. (4 units)

622. Arms Control

The background, history, development, and theory of arms control. Formerly a topic under PSCI 605. (4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis

Prerequisites: completion of coursework and consent of thesis committee. (2 units)

PSYCHOLOGY

Master of Arts in Psychology

with concentrations in:

General-Experimental Psychology
Life-Span Development Psychology
Child Development

Master of Science in Psychology

with concentrations in:

Clinical Counseling
Industrial/Organizational

Department of Psychology

Social and Behavioral Sciences Building, Room 425
880-5570

FACULTY: Mark Agars, David Chavez, Yu-Chin Chien, Gloria Cowan, Robert Cramer, Cynthia Crawford, Stuart Ellins (Chair), Janelle Gilbert, Chuck Hoffman, Laura Kamptner, Hideya Koshino, Janet Kottke, Michael Lewin, Faith McClure, Sanders McDougall, Fred Newton, Jean Peacock, Jason Reimer, Robert Ricco, David Riefer, Janel Sexton, Kenneth Shultz, Geraldine Stahly, Edward Teyber, Jodie Ullman, Sharon Ward, Michael Weiss, Amanda Wilcox-Herzog, Eugene Wong, Joanna Worthley

MASTER OF ARTS IN PSYCHOLOGY

Requirements (46-51 units)

The objective of the Master of Arts in Psychology is to provide a program of study with courses selected from a variety of basic areas in psychology. Students will select one of the following three concentrations as their area of specialization:

1. *General-Experimental Psychology Concentration*
Provides a broad background suitable for entry into doctoral programs in any area of psychology (e.g., social, cognitive, developmental, neuroscience, or clinical); or for employment requiring a Master of Arts degree in Psychology.
2. *Life-Span Developmental Psychology Concentration*
Provides a background in life-span development, suitable for students planning on pursuing a doctoral degree or careers dealing with children, families or older adults.
3. *Child Development Concentration*
Provides an in-depth background in child growth and development, suitable for students planning on pursuing (or currently in) careers dealing with children or families; or for pursuing a doctoral degree.

Although all of these concentrations differ in emphasis, all will prepare students for doctoral programs and career objectives such as teaching in a community college.

Admission to the M.A. Program

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

1. A baccalaureate degree with a major in psychology; or with any other undergraduate major;
 - A. Score at least at the 50th percentile on the GRE advanced test in psychology;
 - OR
 - B. Satisfy the graduate admissions committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
2. A cumulative undergraduate grade point average of at least 3.0 ("B") overall and in the major;
3. Submission of scores for verbal, quantitative, and psychology on the Graduate Record Examination (for the General-Experimental and Life-Span Development programs only);
4. Completion of the graduate entrance writing requirement;
5. A brief statement describing preparation for graduate study, the goals of graduate study and professional aspirations, to be submitted to the department;
6. Three letters of recommendation, with at least two from former professors. Letters should come directly from the writers or be included in a placement file; (It is the applicant's responsibility to determine if letters have been received.)
7. Satisfaction of the prerequisites of one of the following areas of concentration:
 - A. General-Experimental Psychology concentration, the following prerequisites or their equivalent:
PSYC 100. Introduction to Psychology
PSYC 210. Psychological Statistics
PSYC 311. Introduction to Experimental Psychology
 - B. Life-Span Developmental Psychology concentration, the following prerequisites or their equivalent:
PSYC 100. Introduction to Psychology
PSYC 210. Psychological Statistics
PSYC 311. Introduction to Experimental Psychology
A course in developmental psychology.
 - C. Child Development concentration, the following prerequisites or their equivalent:
PSYC 100. Introduction to Psychology
A course in child development.

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

Advancement to Candidacy

At the end of the spring quarter, all first year graduate students will be evaluated to determine whether or not they will be advanced to candidacy for the Master of Arts degree. Students will be reevaluated each quarter until they are either advanced to candidacy or declassified.

To be formally advanced to candidacy, a student must, to the satisfaction of the chair of the department, have:

1. Achieved classified status;
2. Successfully completed 16 units of course work in the program and maintained a 3.0 ("B") grade point average in the course work;
3. Selected a graduate advisor to supervise the course of study;
4. Satisfied the ethical requirements of the American Psychological Association;
5. Filed an approved graduate program which must have the approval of the student's advisor, the department chair or the graduate program director and the Dean of Graduate Studies;
6. Demonstrated successful research participation with a faculty advisor. Success will be determined by a passing grade in PSYC 611B (2 units). PSYC 611C (3 units) will be reserved for the completed thesis proposal after advancement. This requirement can be fulfilled in one of three ways:
 - A. Student will be required to become familiar with the literature in a research area which will be related to their thesis research. This could take the form of a partial literature review, an annotated bibliography and/or a presentation of the literature of interest to faculty/student groups.
 - B. Student will be required to become familiar with several related research literatures if their area of interest is currently undeveloped or if specialized knowledge of particular methodologies requires further investigation for the development of a thesis project.
 - C. Student will be required to become skilled in certain specialized research methods which will pertain to their abilities to gather data for the thesis. Examples of such activities could include gathering pilot data to acquire interview skills, knowledge of survey procedures, assessment skills, advanced statistical skills, understanding of content analysis, skills to work with a special population, or advanced physiological measurement skills.

Requirements for Graduation

1. A minimum of 51 quarter units (for the General-Experimental and Life-Span Development concentrations) or 46 units (for the Child Development concentration) of approved graduate-level work, with 38 completed in residence at this university;
2. A grade point average of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree, grades of "B-" (2.7) or better in each required course in the program, and grades of "C" (2.0) or better in each elective course;
3. Successful completion of the course work listed below, including a culminating experience consisting of the completion and defense of an original master's thesis;
4. The graduation writing requirement is met upon successful completion of the thesis;
5. Any additional general requirements not cited above and listed on [Page 364](#).

Classified graduate students in the Master of Arts program must complete their degree requirements within five years of admission to that program. Students in classified status who

fail to register for at least one course in the Psychology M.A. program each quarter will automatically be declassified. PSYC 698 (Extended Enrollment) may be taken if another course is not taken during a given quarter.

Degree Requirements (46-51 units)

General-Experimental Psychology Concentration (51 units)

1. PSYC 611. Advanced Independent Study (2-5) for a total of (5)
2. PSYC 640. Advanced Methods in Psychological Research (4)
3. PSYC 641. Analysis of Variance (5)
4. PSYC 642. Regression and Nonparametric Statistics (4)
5. PSYC 650. Advanced Cognitive Psychology (4)
6. PSYC 652. Advanced Learning and Motivation (4)
7. PSYC 654. Advanced Life-Span Developmental Psychology (4)
8. PSYC 656. Advanced Biological Psychology (4)
9. PSYC 658. Advanced Personality and Social Psychology (4)
10. PSYC 699. Thesis (5)
11. Eight units of PSYC 500- or 600-level courses, excluding PSYC 595, 611, 612 and 689.

Life-Span Developmental Psychology Concentration (51 units)

1. PSYC 611. Advanced Independent Study (2-5) for a total of (5)
2. PSYC 640. Advanced Methods in Psychological Research (4)
3. PSYC 641. Analysis of Variance (5)
4. PSYC 642. Regression and Nonparametric Statistics (4)
5. PSYC 650. Advanced Cognitive Psychology (4)
6. PSYC 654. Advanced Life-Span Developmental Psychology (4)
7. PSYC 664. Applied Life-Span Developmental Psychology (4)
8. Eight units chosen from:
 - PSYC 645. Advanced Infancy and Early Childhood Development (4)
 - PSYC 646. Advanced Middle Childhood and Adolescent Development (4)
 - PSYC 647. Advanced Adulthood and Aging Development (4)
9. PSYC 699. Thesis (5)
10. Eight units of electives chosen in consultation with an advisor and approved by the director.

Child Development Concentration (46 units)

1. HD 690. Families and Parenting (4)
2. PSYC 611. Advanced Independent Study (2-5) for a total of (10)
3. PSYC 640. Advanced Methods in Psychological Research (4)
4. PSYC 645. Advanced Infancy and Early Childhood Development (4)
5. PSYC 646. Advanced Middle Childhood and Adolescent Development (4)

6. PSYC 650. Advanced Cognitive Psychology (4)
7. PSYC 654. Advanced Lifespan Developmental Psychology (4)
8. PSYC 664. Applied Lifespan Developmental Psychology (4)
9. Eight units of 500- or 600-level coursework from human development, psychology, education, or other relevant field chosen in consultation with a faculty advisor.

MASTER OF SCIENCE IN PSYCHOLOGY

Requirements

Clinical Counseling

Thesis Concentration (82 units)

Comprehensive Examination Concentration (78 or 79 units)

Industrial/Organizational

Thesis Concentration (75 units)

The areas of concentration for the Master of Science degree program are clinical/counseling psychology or industrial/organizational psychology.

The principal objective of the clinical/counseling program is to provide students with practical skills in counseling, through supervised training and experience, and an understanding of relevant subject matter knowledge and research methodology. The program offers required and elective course work designed to meet the educational requirements for licensure as a Marriage and Family Therapist (MFT) as outlined by the California Board of Behavioral Sciences. The program culminates with a thesis or comprehensive examination and an internship experience.

The principal objective of the industrial/organizational program is to provide students with the skills to apply the principles and methods of psychology to organizations, public and private, and to settings where people are engaged in work. To be successful in this application, the graduate must have developed knowledge and appreciation of psychological theory and research as they apply to organizations and people at work, and mastery of the measurement and research technologies which are commonly used in the discipline.

Admission to the M.S. Program

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

1. A minimum cumulative undergraduate grade point average of 2.5;
2. A minimum cumulative undergraduate grade point average in the major of 3.0 ("B");
3. A baccalaureate degree in psychology;
 - or
 - one of the following:
 - A. A baccalaureate degree in a major other than psychology and score at or above the 50th percentile on the Graduate Record Examination (advanced test in psychology);
 - B. A baccalaureate degree in a major other than psychology, including a course of study judged, by the Psychology Department graduate admissions committee,

to be satisfactory preparation for graduate study in psychology;

4. Completion of the graduate entrance writing requirement;
5. Submission to the department graduate admissions committee of a brief statement (one or two typewritten pages) of the student's preparation for graduate study, goals in a graduate training program and professional aspirations following receipt of the master's degree;
6. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's likely success in a graduate psychology program. At least two of these letters should be from former professors who are familiar with the student's scholarly activities.

For students seeking admission in the Industrial/Organizational Psychology Option, the following also are required for classified status:

1. Completion of the following prerequisite courses or their equivalent:
 - a. PSYC 100. Introduction to Psychology
 - b. PSYC 210. Psychological Statistics
 - or
 - MSCI 210. Applied Business Statistics
 - c. PSYC 311. Introduction to Experimental Psychology

The following courses (or equivalent) are recommended:

- a. PSYC 302. Management and Organizational Behavior
 - or
 - MGMT 302. Management and Organizational Behavior
- b. PSYC 355. Industrial Psychology
 - or
 - MGMT 455. Human Resources Management
- c. PSYC 377. Tests and Measurements

For students seeking admission in the Counseling Option, the following also are required for classified status:

1. Completion of the following prerequisite courses or their equivalent:
 - a. PSYC 100. Introduction to Psychology
 - b. PSYC 210. Psychological Statistics
 - c. PSYC 311. Introduction to Experimental Psychology
 - d. PSYC 377. Tests and Measurements
 - e. PSYC 385. Personality
 - or
 - PSYC 386. Introduction to Psychotherapy
 - f. PSYC 390. Abnormal Psychology

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

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the student's advisor, at least 16 quarter units of graduate course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed an approved Advancement to Candidacy form which must have the approval of the student's advisor, the department chair or chair of the graduate program committee and the Dean of Graduate Studies.

Requirements for Graduation

Clinical/Counseling Option:

1. Completed at least 78-82 quarter units (depending on the culminating option selected in item 2 below) of course work in an approved graduate program with a grade point average of at least 3.0 ("B") and grades of "C" (2.0) or better in all courses in the program;
2. One of the following:
 - A. Completed and defended an original thesis. Students selecting the thesis option take five units of PSYC 611 in preparation for the thesis.
OR
 - B. Successful completion of the comprehensive examination. Students selecting the examination option take five units of PSYC 612 in preparation for the examination.
3. Received the approval of the student's graduate committee;
4. The graduation writing requirement is met upon successful completion of the thesis or comprehensive examination;
5. Any additional general requirements not cited above and listed on [Page 364](#).

The comprehensive examination is designed to be integrative in nature and is offered during the spring quarter. Students who do not receive a passing grade may elect to:

- A. Repeat the examination, one additional time only
OR

- B. Complete PSYC 699. Thesis.

Complete details regarding the examination option are available from the Psychology Department.

Industrial/Organizational Option

1. Completed a minimum of 82 quarter units of approved graduate level work with at least 60 units completed in residence at this university with a grade point average of at least 3.0 ("B") and grades of "C" (2.0) or better in all courses in the program;
2. Completed and defended an original master's thesis (a two course sequence, PSYC 611 and 699);
3. The graduate writing requirement is met upon successful completion of the thesis.

Classified graduate students in the Master of Science programs must complete their degree requirements within five years of admission to the program. Students with classified status who fail to register for at least one course in the Psychology M.S. program each quarter will automatically be declassified.

Degree Requirements

Clinical/Counseling

Thesis Option (82 units)

1. PSYC 611. Advanced Independent Study (2-5) for a total of (5)
2. PSYC 633. Professional Ethics and Law (4)
3. PSYC 636. Cross-Cultural Counseling (4)
4. PSYC 638. Substance Abuse: Detection, Assessment and Treatment (4)
5. PSYC 640. Advanced Methods in Psychological Research (4)
6. PSYC 641. Analysis of Variance (5)
7. PSYC 654. Advanced Life-Span Developmental Psychology (4)
8. PSYC 665. Psychopathology (4)
9. PSYC 667. Family Processes (4)
10. PSYC 671. Counseling Practicum I (5)
11. PSYC 672. Counseling Practicum II (5)
12. PSYC 673. Counseling Practicum III (5)
13. PSYC 682. Clinical Assessment (4)
14. PSYC 687A. Independent Consultation in Counseling Skills (2)
15. PSYC 687B. Independent Consultation in Counseling Skills (2)
16. PSYC 687C. Independent Consultation in Counseling Skills (2)
17. PSYC 697A. Advanced Practicum in Counseling Psychology (4)
18. PSYC 697B. Advanced Practicum in Counseling Psychology (4)
19. PSYC 697C. Advanced Practicum in Counseling Psychology (4)
20. PSYC 699. Thesis (5)
21. Two units of electives to be chosen from 500- or 600-level courses, excluding PSYC 575, 595, 611 and 612.

Notes: *Up to eight units of PSYC 697A, 697B and 697C may be waived for appropriate work experience.

*PSYC 616, 679 and 691 are required for those students interested in licensure as a marriage and family therapist.

Clinical/Counseling

Comprehensive Examination Option (78 or 79 units)

1. PSYC 612. Directed Readings (2-5) for a total of (5)
2. PSYC 633. Professional Ethics and Law (4)
3. PSYC 636. Cross-Cultural Counseling (4)
4. PSYC 638. Substance Abuse: Detection, Assessment and Treatment (4)
5. PSYC 640. Advanced Methods in Psychological Research (4)
6. PSYC 654. Advanced Life-Span Developmental Psychology (4)
7. PSYC 665. Psychopathology (4)
8. PSYC 667. Family Processes (4)
9. PSYC 671. Counseling Practicum I (5)
10. PSYC 672. Counseling Practicum II (5)
11. PSYC 673. Counseling Practicum III (5)
12. PSYC 682. Clinical Assessment (4)
13. PSYC 687A. Independent Consultation in Counseling Skills (2)

14. PSYC 687B. Independent Consultation in Counseling Skills (2)
15. PSYC 687C. Independent Consultation in Counseling Skills (2)
16. PSYC 697A. Advanced Practicum in Counseling Psychology (4)
17. PSYC 697B. Advanced Practicum in Counseling Psychology (4)
18. PSYC 697C. Advanced Practicum in Counseling Psychology (4)
19. Eight units of electives to be chosen from 500- or 600-level courses, excluding PSYC 575, 611 and 612.
Notes: *Up to eight units of PSYC 697A, 697B and 697C may be waived for appropriate work experience.
 *PSYC 616, 679 and 691 are required for those students interested in licensure as a marriage and family therapist.

Industrial/Organizational

Thesis Option (75 units)

1. PSYC 581A. Seminar in Industrial/Organizational Psychology: Current Professional Issues (2)
2. PSYC 581B. Seminar in Industrial/Organizational Psychology: Organizational Leadership (2)
3. PSYC 581C. Seminar in Industrial/Organizational Psychology: Processes of Work Groups (2)
4. PSYC 581D. Seminar in Industrial/Organizational Psychology: Training and Executive Development (2)
5. PSYC 601. Performance Assessment (4)
6. PSYC 602. Organizational Development (4)
7. PSYC 603. Personnel Selection and Validation (4)
8. PSYC 604. Work Motivation and Organizational Reward Systems (4)
9. PSYC 611. Advanced Independent Study (2-5) for a total of (5)
10. PSYC 633. Professional Ethics and Law (4)
11. PSYC 640. Advanced Methods in Psychological Research (4)
12. PSYC 641. Analysis of Variance (5)
13. PSYC 642. Regression and Nonparametric Statistics (4)
14. PSYC 643. Multivariate Methods (4)
15. PSYC 644. Applied Psychological Measurement (4)
16. PSYC 675. Practicum in Applied Psychology (4)
17. PSYC 689. Externship in Applied Psychology (2-5) for a total of (4)
18. PSYC 699. Thesis (5)
19. Four units chosen from:
 - PSYC 650. Advanced Cognitive Psychology (4)
 - PSYC 652. Advanced Learning and Motivation (4)
 - PSYC 654. Advanced Life-Span Developmental Psychology (4)
 - PSYC 656. Advanced Biological Psychology (4)
 - PSYC 658. Advanced Personality and Social Psychology (4)
20. A minimum of four units chosen from:
 - ACCT 503. Financial and Managerial Accounting (4)
 - ECON 503. Economic Analysis (4)

- FIN 503. Financial Management Concepts (4)
- May choose only one of the following two courses:
- HD 540. Work, Retirement and Leisure (4)
 - PSYC 540. Work, Retirement and Leisure (4)
- MGMT 601. Organization Theory and Behavior (4)
 - MGMT 640. Methods of Organizational Change (4)
 - MGMT 641. Managing Human Resources (4)
 - MGMT 642. Communication and Interpersonal Processes (4)
 - MGMT 644. Industrial Relations (4)
 - MGMT 670. Green Management (4)
 - PSYC 612. Directed Readings (2-5)
 - PSYC 636. Cross-Cultural Counseling (4)
 - PSYC 665. Psychopathology (4)
 - PSYC 679. Theories of Counseling and Psychotherapy (4)

COURSE OFFERINGS IN PSYCHOLOGY (PSYC)

Upper Division

538. Introduction to Psychopharmacology

Examination of the basic pharmacological principles of psychoactive drugs. Particular emphasis is placed on neuronal functioning, mechanisms of drug action, and behavioral attitudes. Prerequisites: HD 324, PSYC 324, 333 or 363; or consent of instructor. (4 units)

540. Work, Retirement and Leisure

Theory and research on work, retirement and leisure during the adult years. (Also offered as HD 540. Students may not receive credit for both.) Prerequisite: PSYC 100. (4 units)

575. Internship in Psychology

Supervised work and study in private or public organizations. May be repeated once for credit. (Only four units of PSYC 575 may be applied to upper-division elective requirements in the psychology major.) Graded credit/no credit. Prerequisites: consent of instructor and department. (4 units)

581. Seminar in Industrial/Organizational Psychology

Selected topics in industrial/organizational psychology. M.S. I/O option candidates are required to take all four topics. Same topic may not be repeated for credit. Prerequisites: upper-division or graduate standing and consent of department.

- A. Current Professional Issues (2 units)
- B. Organizational Leadership (2 units)
- C. Processes of Work Groups (2 units)
- D. Training and Executive Development (2 units)

595. Independent Study

Special topics involving literature and/or experimental effort. A total of eight units of PSYC 595 may be applied toward graduation, of which a maximum of four units can be applied toward the upper-division requirements in the psychology major. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 4 units)

597. Honors Seminar

Provides an opportunity for students to develop an independent project under faculty supervision. Students will meet as a class to discuss their projects, as well as various advanced topics. Enrollment is limited to students whose formal application for departmental honors is approved. Prerequisites: PSYC 311 and consent of department. (4 units)

598. Honors Project

Provides an opportunity for students to conduct an independent project under faculty supervision. Enrollment is limited to students whose formal application for departmental honors is approved. May not be used to satisfy the requirements of the psychology major.

A. Prerequisites: PSYC 597 and consent of department. (2 units)

B. Prerequisites: PSYC 598A and consent of department. (2 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

601. Performance Assessment

Current research and methods of performance appraisal. Topics include the study of job analysis, performance appraisal process and instrumentation, and job evaluation. Formerly PSYC 661. Prerequisite: classified graduate standing in M.A. or M.S. degree program or consent of department. (4 units)

602. Organizational Development

Critical review of current psychological theories and methods of organizational change. Topics include organization processes and interventions at the organizational and group levels. Formerly PSYC 660. Prerequisite: classified graduate standing in M.A. or M.S. degree program or consent of department. (4 units)

603. Personnel Selection and Validation

Principles and methods of personnel selection, including validation strategies and the effects of governmental and legal issues on personnel actions. Formerly PSYC 662. Prerequisite: classified graduate standing in M.A. or M.S. degree program or consent of department. (4 units)

604. Work Motivation and Organizational Reward Systems

Review and critical discussion of major theories and current research of motivation in the workplace, including examination of research on reward and compensation systems, and a review and discussion of their application in work organizations. Prerequisite: classified graduate standing in M.A. or M.S. degree program or consent of department. (4 units)

611. Advanced Independent Study

Advanced research on a specific topic selected by the student with the approval of the student's committee. May be repeated up to two times for a maximum of 15 units credit with approval of the student's committee and the department chair. Only five units are required for the master's degree. Prerequisites: PSYC 640 or 641 (570); advancement to candidacy and consent of department. (Credit to be arranged: 2 to 5 units)

612. Directed Readings

Special topics involving supervised readings under the direction of a faculty member. Prerequisites: graduate standing and consent of department. (Credit to be arranged: 2 to 5 units)

613. Short-term Counseling

Counseling skills and strategies for short-term therapeutic intervention. Prerequisites: classified standing and consent of department. (4 units)

614. Couples Counseling

Theory and practice of counseling with couples. Prerequisites: classified standing and consent of department. (4 units)

615. Group Counseling

Theory and practice of group counseling. Prerequisites: classified standing and consent of department. (4 units)

616. Child and Spousal/Partner Abuse

Theory and research on the psychological aspects of child and spousal/partner abuse. Detection, assessment and treatment of the abuse. Formerly a topic under PSYC 678. Prerequisites: classified standing and consent of department. (4 units)

617. Clinical Psychopharmacology

Theory and application of psychotropic principles for the major DSM psychiatric disorders, including the examination of the effects of the psychotropic medications on experience, behavior and symptoms. (4 units)

630. Teaching of Psychology

Instructional methods for teaching of psychology at the college level. Prerequisites: classified graduate status in psychology and consent of department. (2 units)

633. Professional Ethics and Law

Ethical and legal considerations involved in counseling practice, including statutory law, legal trends, and ethical behavior in the mental health profession. Prerequisites: classified standing in Psychology M.S. degree program and consent of department. (4 units)

636. Cross-Cultural Counseling

Study of how cultural values and ethnic backgrounds influence counseling process and outcome, with focus on counseling with Blacks, Hispanics, Asians, and Native Americans. Prerequisites: classified standing in Psychology M.S. or M.A. degree program and consent of department. (4 units)

638. Substance Abuse: Detection, Assessment and Treatment

Assessment and treatment of substance abuse, including alcoholism and other forms of chemical dependency with a focus on etiological factors and relapse prevention. Prerequisites: classified standing in Psychology M.S. or M.A. degree programs and consent of department. (4 units)

640. Advanced Methods in Psychological Research

Those aspects of philosophy of science and methods of inquiry as applied to procedures for obtaining and evaluating data as well as issues in experimental design. Prerequisites: classified standing and consent of department. (4 units)

641. Analysis of Variance

Review of concepts of statistical inference. Applications of statistical techniques to the design and interpretation of experimental research with an emphasis on Analysis of Variance (ANOVA). Statistical computer packages will be introduced in the laboratory section. Four hours lecture and three hours laboratory. Formerly PSYC 570. Prerequisites: classified standing and consent of department. (5 units)

642. Regression and Nonparametric Statistics

Review of concepts of statistical estimation. Applications of statistical techniques to the design and interpretation of applied correlational and quasi-experimental research with an emphasis on correlation, regression, and nonparametric techniques. Statistical computer packages will be introduced in the activity section. Three hours lecture and two hours activity. Formerly PSYC 571. Prerequisites: classified standing and consent of department. (4 units)

643. Multivariate Methods

Multivariate models used in psychological research, including multiple regression, discriminant function analysis, factor analysis, canonical analysis, and multiple analysis of variance. Formerly PSYC 572. Three hours lecture and two hours activity. Prerequisites: PSYC 641 (or 570) or equivalent, classified standing and consent of department. (4 units)

644. Applied Psychological Measurement

Theories, methods, and issues of psychological measurement and assessment. Topical coverage will include test construction, test evaluation, survey development, ethics, and testing in applied settings. Formerly PSYC 663. Three hours lecture and two hours activity. Prerequisite: classified graduate standing in M.A. or M.S. program or consent of department. (4 units)

645. Advanced Infancy and Early Childhood Development

Research and theory relating to prenatal development through age five. Classic theory and current literature concerning development in physical, cognitive, language, social and emotional domains will be examined. Prerequisites: PSYC 654 and classified graduate status. (4 units)

646. Advanced Middle Childhood and Adolescent Development

Theoretical and empirical contributions to understanding physical, cognitive, and social-emotional development during the school-age period (6-12) and adolescence (13-18). A survey of empirical findings from both basic and applied research will focus on methods, applications, and interventions relevant to these age groups. Prerequisites: PSYC 654 and classified graduate status. (4 units)

647. Advanced Adulthood and Aging Development

Key topics in developmental psychology concerning young, middle aged and older adults. Specialized methodological and measurement concerns will be discussed as well as age-related changes and theoretical/empirically based applications. Prerequisites: PSYC 654 and classified graduate status. (4 units)

650. Advanced Cognitive Psychology

Research and theories in the psychology of thinking, knowing and remembering. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

652. Advanced Learning and Motivation

Major theories and research in learning and motivation with emphasis on current issues. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

654. Advanced Life-Span Developmental Psychology

Examination of the developmental processes, theories, issues and research in life-span developmental psychology. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

655. Advanced Seminar in Developmental Psychology

Selected current issues and advanced topics of theoretical, research or applied interest in developmental psychology. Prerequisites: classified standing and consent of department. (4 units)

656. Advanced Biological Psychology

Study of biological bases of behavior with emphasis on recent research. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

658. Advanced Personality and Social Psychology

Major theories, methods and empirical findings in personality and social psychology. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (4 units)

664. Applied Life-Span Developmental Psychology

Conceptual, methodological and policy related issues in the application of developmental psychology to applied settings. Prerequisites: classified standing and consent of department. (4 units)

665. Psychopathology

Major types of human psychopathology, including descriptive symptomatology, etiological factors and treatment considerations. Prerequisites: classified standing in Psychology M.S. degree program and consent of department; or PSYC 390, classified standing in Psychology M.A. degree program and consent of department; or PSYC 390 and consent of department. (4 units)

667. Family Processes

Normal and dysfunctional family processes, including analysis of family systems, family communication and strategies for therapeutic intervention. Formerly PSYC 666. Prerequisites: classified standing and consent of department. (4 units)

671. Counseling Practicum I

Training in development of basic counseling skills. Three hours lecture and six hours laboratory. Prerequisites: classified standing in the Psychology M.S. degree program; concurrent enrollment in PSYC 687A and consent of department. (5 units)

672. Counseling Practicum II

Training in counseling use and application of behavior modification skills. Three hours lecture and six hours laboratory. Prerequisites: grade of no less than "B" in PSYC 671; concurrent enrollment in PSYC 687B and consent of department. (5 units)

673. Counseling Practicum III

Training in advanced counseling skills. Three hours lecture and six hours laboratory. Prerequisites: grade of no less than "B" in PSYC 672; concurrent enrollment in PSYC 687C and consent of department. (5 units)

675. Practicum in Applied Psychology

Training in the application of methods and theories of psychology to the solution of practical problems within organizations. The course will include both a classroom component and practical applications. Prerequisites: classified graduate standing in M.A. or M.S. degree program and consent of department. (4 units)

678. Advanced Topics in Psychology

Selected advanced psychology topics with specific focus within relatively narrow content area. Formerly PSYC 578, credit may not be received twice for the same topic. Prerequisites: classified standing and consent of department. (2 units)

679. Theories of Counseling and Psychotherapy

Comparative analysis of major theories related to current practice of counseling and psychotherapy. Formerly PSYC 583. Prerequisites: classified standing and consent of department. (4 units)

680. Advanced Seminar in Psychology

Selected advanced topics which encompass areas of current theoretical and/or research interest in psychology. Prerequisites: classified standing and consent of department. (4 units)

682. Clinical Assessment

Methods of intellectual, vocational and personality assessment with children and adults. May not be taken for credit by students who have received credit for PSYC 683. Prerequisites: classified standing and consent of department. (4 units)

684. Topics in Counseling Psychology

Selected topics within counseling psychology. May be repeated for credit as topics change. Prerequisites: classified standing and consent of department. (4 units)

687. Independent Consultation in Counseling Skills

Individual consultation with staff concerning skills development. Graded credit/no credit.

- A. Prerequisite: consent of department. Corequisite: concurrent enrollment in PSYC 671. (2 units)
- B. Prerequisite: consent of department. Corequisite: concurrent enrollment in PSYC 672. (2 units)
- C. Prerequisite: consent of department. Corequisite: concurrent enrollment in PSYC 673. (2 units)

689. Externship in Applied Psychology

Supervised field work in a public or private setting for additional training and extension of skills developed in the graduate program. The externship requires approval by a faculty supervisor. A total of 5 units may apply toward the I/O Option. Graded credit/no credit. Prerequisites: PSYC 640 and consent of department. (Credit to be arranged: 2 to 5 units)

691. Human Sexuality and Treatment

Study of human sexuality with emphasis on both healthy sexuality and sexual dysfunction. Clinical interventions to enhance sexual functioning and to treat sexual dysfunctions will be presented. Formerly PSYC 591. Prerequisites: classified standing and consent of department. (4 units)

697. Advanced Practicum in Counseling Psychology

Supervised counseling field work in private or public mental health agencies. Designed to be taken three times (year long) for maximum of 12 units of credit. Graded credit/no credit. Prerequisites: classified standing in the Psychology M.S. degree program, PSYC 671, 672, 687A, 687B, 687C; a grade of "A" or "B" in PSYC 673; and consent of department.

- A. (4 units)
- B. (4 units)
- C. (4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis

Prerequisites: PSYC 640 and/or 641; PSYC 611; advancement to candidacy and consent of department. (5 units)

PUBLIC ADMINISTRATION

Master of Public Administration

Accredited by the National Association of Schools of Public Affairs and Administration

College of Business and Public Administration

Jack Brown Hall, Room 456
880-5758

FACULTY: David Bellis (Chair), Chuck Christie, Michael Clarke, Albert K. Karnig, Guenther Kress, Audrey Mathews, J. Brian Watts, Clifford Young

MASTER OF PUBLIC ADMINISTRATION

Requirements (48 units)

The Master of Public Administration (M.P.A.) is a broad program designed to prepare students for a career in administration in the public sector. The major objective is to provide the student with a generalist perspective of public administration, including tools of decision-making, an understanding of the total public administrative system, and a capacity for working within the public environment.

This degree is intended for graduate students and career employees seeking to develop and strengthen academic and professional skills for admission and advancement in the professional practice of public administration.

The program is open to all students, regardless of undergraduate major.

Admission to the M.P.A. Program

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

1. A bachelor's degree from an accredited college or university;
2. The following combination of grade point average and test score on the GRE (Graduate Record Examination, Verbal and Quantitative Sections): GRE score plus 400 times grade point average on the last 90 sequential quarter units (60 semester units) of course work (including postbaccalaureate course work) equals or exceeds 2100;
3. Submission of GRE score by the deadline for that term; if test result is not submitted on time, admission status will be unclassified postbaccalaureate;
4. Competence in the following prerequisite courses or their equivalents:
 - A. MGMT 306. Expository Writing for Administration (with a grade of "B" or better)
 - B. MSCI 210. Applied Business Statistics
or
MATH 305. Statistics: Hypothesis Testing and Estimation
 - C. PA 575. Internship in Public Administration (May be waived dependent upon related work experience.)

Competence in the above prerequisite courses may be demonstrated by:

- A. Formal completion of the course or its equivalent.
 - B. Credit by examination.
 - C. Waiver based on specialized work experience; must have documentation of work directly related to course to be waived; and must be approved by the department's M.P.A. Graduate Director. (Students requesting waiver of any prerequisite courses must petition the M.P.A. Graduate Director. Inquiries about a challenge examination or substitution for MGMT 306 should be directed to the Dean of Graduate Studies.)
5. Academic motivation and personal qualifications demonstrated through submission of a 200-250 word statement of reasons for wishing to pursue the M.P.A. at California State University, San Bernardino, and personal qualifications that will contribute to successful completion of the program.

No more than 12 units of graduate credit earned in unclassified/conditionally classified standing may be counted toward meeting the requirements for the degree.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in 600-level courses unless they have written consent from the school graduate director.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 20 quarter units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with an M.P.A. advisor after achieving classified status;
4. Secured the approval of candidacy from the M.P.A. Graduate Director and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 48 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 36 units completed at this university;
2. At least 28 quarter units of credit taken after advancement to candidacy for the degree;
3. Successful completion of the required core and elective courses as outlined in the curriculum section;
4. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
5. Successful completion of the graduate research project. The graduate research project is defined as an advanced field study in public administration including both literary and empirical research. This requirement is met by the student's enrollment in PA 695 during the last quarter of work in the program and completion of the project to the satisfaction of the student's advisor.

OR

Successful completion of an integrative comprehensive examination which may be taken any fall, winter or spring term after advancement to candidacy. Students with grade point average below 3.0 ("B") will not be permitted to take the examination. A "no credit" (NC) designation will be entered on the student's transcript if he/she fails the examination. Students who do not receive a passing grade may elect to:

A. Repeat the examination, one additional time only, with the written approval of the Department's M.P.A. Graduate Director;

Note: With the written approval of the Department's M.P.A. Graduate Director, students who do not receive a passing grade after repeating the examination may complete PA 695. Graduate Research Project.

OR

B. Complete PA 695. Graduate Research Project.

The examination will be offered fall, winter and spring quarters. Only students who are currently classified, have been advanced to candidacy and are not on probation may take the examination.

6. In addition to satisfactory completion of the graduate entrance writing requirement (MGMT 306. Expository Writing for Administration with a grade of "B" or better), classified MPA students must satisfy the graduation writing requirement by:
 - A. Successful completion of M.P.A. core courses, with a grade point average of "B" or better, which require students to write in a manner appropriate for the discipline; and
 - B. Preparation of an acceptable Graduate Research Project (PA 695);
- OR
- A. Successful completion of M.P.A. core courses, with a grade point average of "B" or better which require students to write in a manner appropriate for the discipline; and
- B. Successful completion of the M.P.A. Comprehensive Examination which requires acceptable expository writing skills;
7. Any additional general requirements not cited above and listed on [Page 364](#).

Degree Requirements (48 units)

Comprehensive Examination Option

1. Four units chosen from:
 - MGMT 603. Research Methods in Administration (4)
 - PA 603. Research Methods in Administration (4)
2. PA 611. Public Administration Theory and Practice (4)
3. PA 615. Public Financial Management (4)
4. PA 662. Human Resource Management in the Public Sector (4)
5. PA 663. Public Budgeting and Finance (4)
6. PA 664. Management of Public Organizations (4)
7. PA 672. Administrative Regulation (4)
8. PA 680. Public Policy Analysis (4)

9. Sixteen units of electives to be chosen from any Department of Public Administration 500- or 600-level courses in consultation with an advisor or from related fields with advance approval from the chair of the Department of Public Administration. No more than twelve units may be taken from 500-level courses.
10. Successful completion of the comprehensive examination. Students must successfully complete requirements 1-8 in order to register for the comprehensive examination.

Graduate Research Project Option

1. Four units chosen from:
 - MGMT 603. Research Methods in Administration (4)
 - PA 603. Research Methods in Administration (4)
2. PA 611. Public Administration Theory and Practice (4)
3. PA 615. Public Financial Management (4)
4. PA 662. Human Resource Management in the Public Sector (4)
5. PA 663. Public Budgeting and Finance (4)
6. PA 664. Management of Public Organizations (4)
7. PA 672. Administrative Regulation (4)
8. PA 680. Public Policy Analysis (4)
9. PA 695. Graduate Research Project (4)
10. Twelve units of electives to be chosen from any Department of Public Administration 500- or 600-level courses in consultation with an advisor.

Students may take up to two courses at the 500- or 600-level from related fields with the permission of the College of Business and Public Administration graduate committee. Students who wish to take up to two 300- or 400-level courses must petition the college's director of graduate studies for approval in advance; for each course approved, they will be required to enroll simultaneously in a two-unit independent study course directly related to the course selected. These independent study units cannot be applied to any graduate degree unit requirements.

Only conditionally classified and classified students (or those who have the consent of the college director of graduate studies) may enroll in 600-level courses.

Students may not include more than 12 quarter units in transfer credit from other colleges. California State University, San Bernardino will not consider for transfer credit course work from any institution which will not accept that work in its own advanced degree program.

COURSE OFFERINGS IN PUBLIC ADMINISTRATION (PA)

Upper Division

514. Management of Private Nonprofit Organizations

Analyzes the specific problems of management in private nonprofit organizations, including planning, personnel, financial and policy issues. (4 units)

516. Public and Non-Profit Project Management

Aspects of project management, including needs and feasibility assessment, project design, proposal writing, contract negotiation, funding, developing project teams, managing team conflict, monitoring, and evaluation. (4 units)

521. Principles of Planning

Introduction to local and regional community planning; includes methods of adoption and interorganizational relationships. (4 units)

548. Management of Computers in the Public Sector

Designed to help students gain competency in computer related skills. Each topic may be taken once for credit. Three hours lecture and two hours activity laboratory.

- A. Word Processing (4 units)
- B. Data Base Management (4 units)
- C. Spread Sheet (4 units)
- D. Communication (4 units)
- E. Networking (4 units)
- F. Special Problems (4 units)
- G. Geographic Information Systems (4 units)

557. Public Sector Labor Relations

Analyzes issues created by collective bargaining and unionism in public sectors. Examples: selection of bargaining agents, bargaining scope and obligation, impasse resolution and grievance procedure. (4 units)

564. Local Public Administration

Administrative characteristics and problems of public management in the urban area, including city, county, school and special district organization and functions. (4 units)

568. Accounting for Government and Not-for-Profit Organizations

Covers principles and practices of government fund accounting. Topics include governmental accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to government and not-for-profit entities, presentation and uses of financial statements. (Also offered as ACCT 568. Students may not receive credit for both.) Prerequisite: ACCT 211 or 311. (4 units)

575. Internship in Public Administration

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. Prerequisites: consent of instructor and college. (4 units)

590. Seminar in Public Administration

An intensive study of some phase of public administration to be developed by the instructor. May be repeated for credit as topics change. (4 units)

595. Independent Study

Special topics involving library and/or field research. A total of ten units in any College of Business and Public Administration 595 may be applied toward graduation. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the College of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 or 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

603. Research Methods in Administration

Principles of research design, development of research instruments, data accumulation and analysis of significant data integrated with use of computers in research. Critique of sample research studies from the literature and a research study conducted by the student. (Also offered as MGMT 603. Students may not receive credit for both.) Prerequisite: MSCI 210. (4 units)

611. Public Administration Theory and Practice

A critical analysis of major theories of public administration and their application, including development of the discipline, evolution of institutional forms both in the United States and in international settings, concepts of decision-making and role of public administration in society. (4 units)

612. Productivity Measurement in the Public Sector

Analysis of effective and efficient mobilization of agency resources. Includes examination of the environment, techniques, variables and perspectives in applying productivity measurements, particularly at the local level. (4 units)

615. Public Financial Management

Management of financial resources in public organizations with emphasis on local government. Topics include evaluation and monitoring of financial condition and trends, fiscal policy analysis, revenue and expenditure forecasting, capital planning and financing, cash flow management, debt administration, cost allocation and integrated financial management systems. (4 units)

616. Comparative Public Administration

Cross-national comparison of administrative systems, structures, processes and practices of developed and third world countries. (4 units)

617. Management of Local Economic Development

An introduction to the forms, processes and effects of economic development. Topics include: the dynamics of urban change and revitalization; the planning and financing of community economic development programs and projects; the role of public, neighborhood, advocacy and not-for-profit organizations, and social and environmental impacts of economic change. (4 units)

618. Local Government Development Finance

Explains and analyzes the major financing mechanisms for local government economic and public works development, their working and effectiveness. Topics include the background of the budget process and pertinent documents, an overview of economic development and public works finance, assessment districts, fiscal impact analysis, capital budgeting and financing, revenue forecasting, financing of redevelopment agencies, financial indicators, and case studies of development financing. (4 units)

619. Diversity and Public Organizations

Exploration of the diversity challenges facing public, business and non-profit organizations as they pursue their public policy and economic missions. Topics include: diversity in the context of organizational behavior; diversity's impact on leadership, management, people, organizations, economic development and public policy. (4 units)

620. Regulatory Structure, Policies, and Process in Water Law

Legal authority of water agencies, the procedures employed to exercise and limit that authority, the structure and process of administrative law, and the sharing of power in a federal system. Topics include powers and liabilities of water agencies, administrative procedures act, due process of law, licensing, environmental laws, rulemaking, negotiated rulemaking, interstate compacts, emergency powers, property condemnation, allocation of water resources, uses of water, and legal aspects of financing water projects. (4 units)

621. Water Resources Agency Management

Strategies for and issues in the management of local, state and federal water resources agencies. Topics include designing an organizational structure, reengineering, interorganizational coordination, intergovernmental collaboration, organizational culture, high-performance organizations, growth management, and leadership. (4 units)

622. Politics and Public Relations in Water Resources Management

Basic concepts and techniques of politics and public relations between water agencies, the communities they serve, and other governmental entities. Problems and techniques in administering of programs to manage water politics and improve public relations, including the applications of political and communication theories and practices to water resources management. (4 units)

628. Intergovernmental Administration

Administration of governmental programs in an intergovernmental context. Development of the federal system, relationships among federal, state and local governments, intergovernmental fiscal arrangements, practical problems in setting and implementing policies in an intergovernmental context. (4 units)

630. Program Evaluation

Purposes and methods of program evaluation in public and nonprofit organizations. Topics include selection of programs for evaluation, delineation of frame of reference, gathering of information, techniques of reporting, data analysis, comparative approaches of evaluation and ethical issues. Prerequisite: MSCI 210 or MATH 305. (4 units)

662. Human Resource Management in the Public Sector

Analysis of the personnel function as it applies to public sector organizations. Topics include development of modern public service, functions of personnel management, politics of the civil service, employment discrimination, labor management relations, professionalism and ethics, comparative public personnel administration, and computerization of human resources management. (4 units)

663. Public Budgeting and Finance

Budget concepts and their application in varied settings including federal, state, and local governments in the United States and overseas. Includes economic, management and political approaches to budgetary decision-making processes, and institutions, as well as major issues in contemporary budgeting. (4 units)

664. Management of Public Organizations

Issues in public management, including the role of the public executive, theories of public organizations, human behavior in public organizations, management of innovation and policy change, and information management. (4 units)

670. Emergency Management

Covers basic theory and practice in emergency management. Topics include approaches to emergency management, the political and administrative environment, administration of complex systems, behavioral aspects, and establishing and implementing community wide policies. (4 units)

671. Defense Budgeting and Management

Resource allocation and management in defense agencies. Topics include the defense planning and budgeting process; analytical tools for costing defense programs; administration of procurement; contingency and force planning; modernization, readiness and sustainability; and options in the allocation of defense resources. (4 units)

672. Administrative Regulation

Discretionary authority of regulatory agencies, the manner in which power is exercised by such agencies, and the administrative structure of the regulatory process. (4 units)

680. Public Policy Analysis

An integrative course examining the analytical, behavioral and systems sciences approaches to public administrative systems with emphasis upon the development of evaluative skills in applied decision-making. (This course is equivalent to SW 629. Students may not receive credit for both.) Prerequisites: PA 611, 662, and 663. (4 units)

690. Advanced Topics in Public Administration

Intensive study of an advanced topic in public administration. May be repeated for credit as topics change. (4 units)

695. Graduate Research Project

Required field study in public administration, including both literary and empirical research. Prerequisites: completion of, or concurrent enrollment in, all other courses for the Master of Public Administration; and consent of instructor and college. (4 units)

REHABILITATION COUNSELING

Master of Arts in Rehabilitation Counseling

Accredited by the Council on Rehabilitation Education

Certificate

Rehabilitation Counseling

Department of Educational Psychology and Counseling

University Hall, Rom 401.24
880-5606

FACULTY: Margaret Cooney, Joseph Turpin

MASTER OF ARTS IN REHABILITATION COUNSELING

Requirements (72 units)

The Master of Arts in Rehabilitation Counseling offered by the College of Education is designed to prepare students to work with individuals with disabilities in public and private rehabilitation agencies, hospitals, industry and related fields. The graduate program, a two-year course of study, will train students in rehabilitation counseling, vocational evaluation and job placement of persons with disabilities. Graduates of the program will be prepared to take the certified rehabilitation counselor examination.

Rehabilitation counseling is a growing field in the mental health and allied health professions. A rehabilitation counselor helps persons with disabilities achieve their optimal social, psychological and vocational potential. Whenever possible, the final goal of rehabilitation is job placement. The rehabilitation counselor works with people who have different disabilities. The handicaps may be physical, intellectual, emotional or sociocultural.

Students will be encouraged to develop areas of specialization by completing research of individual interest and field work experiences in specialization areas. The rehabilitation counseling program also will offer a bilingual rehabilitation counseling experience. The purpose for having a bilingual experience is that there is a demand in the rehabilitation profession for counselors to have the skills to speak and work with Hispanic clients. The mission of the bilingual rehabilitation counseling experience will be to educate students to be rehabilitation counselors who will be able to speak conversational Spanish with Hispanic clients, have an understanding of Hispanic culture and be aware of the special needs of Hispanic persons with disabilities.

Admission to the Program

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

1. A baccalaureate degree with a major preferably in education psychology, sociology, or a related social service field;
2. A cumulative undergraduate grade point average of 3.0 ("B") overall;
3. Completion of the graduate entrance writing requirement. The student should submit a narrative, quality paper using APA guidelines to his/her advisor prior to advancement to candidacy;
4. A cumulative grade point average of 3.0 ("B") in all previous graduate work;
5. Completion of an interview with two faculty members to assess competence in interpersonal skills and aptitudes for the rehabilitation counseling profession;
6. Participation in a continual evaluation process which will assess personality and character, professional ethics and aptitude, counseling skills, oral and written language usage and many-sided interests.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Satisfactorily completed EREH 615 with a grade of "B" (3.0) or better;
3. Completed with a grade point average of 3.0 ("B") no more than 24 quarter units of course work;
4. Secured approval of candidacy from the College of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the College and the Dean of Graduate Studies;
6. Submitted a proposal for the graduation writing requirement.

Requirements for Graduation

1. A minimum of 72 quarter units of acceptable work, with 59 completed in residence at this university;
2. A minimum of 48 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of one of the following:
 - A. EDUC 600. Master's Degree Project
 - B. Written comprehensive examination;
5. Any additional general requirements not cited above and listed on [Page 364](#).

Students who elect to complete a project will register for EDUC 600; these units will be part of the required 72 units.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project. Students who elect to complete a project are not required to take a comprehensive examination.

Students are encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of the field of rehabilitation counseling rather than the subject matter of courses taken. The examination is offered once each quarter during the academic year. Students must enroll in the examination either through the regular registration process or through the College of Extended Learning in the Open University program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

Degree Requirements (72 units)

1. Educational counseling courses (20 units):
 - ECLG 655. Multicultural Counseling (4)
 - ECLG 656. Counseling Theories and Techniques (4)
 - ECLG 657A. Counseling Practicum (4)
 - ECLG 678. Theory and Practice of Group Counseling (4)
 - EDUC 610. Research Methodology in Education (4)
2. Rehabilitation counseling courses (48 units):
 - EREH 605. Seminar Topics in Rehabilitation Counseling (Topic examples: Casework Management, Research in Rehabilitation, Current Issues in Rehabilitation and Bilingual Issues.) (2) for a total of (4)
 - EREH 615. Introduction to Rehabilitation Counseling (4)
 - EREH 616A. Multiple Aspects of Disability: Medical (4)
 - EREH 616B. Multiple Aspects of Disability: Vocational (4)
 - EREH 617. Vocational Assessment and Development (4)
 - EREH 618. Applied Job Placement (4)
 - EREH 649. Organizational Development of Rehabilitation Services (4)
 - EREH 652. Dynamics of Human Behavior (4)
 - EREH 667. Practicum in Rehabilitation Counseling (4)
 - EREH 679. Fieldwork in Rehabilitation Counseling (4) for a total of (12)
3. One of the following options (4 units):
 - A. Master's Degree Project Option (4 units)
 1. EDUC 600. Master's Degree Project (4)
 - B. Written Comprehensive Examination Option (4 units)
 1. Successful completion of the written comprehensive examination.

2. Four units chosen from:
 - ECLG 531. Introduction to Counseling (4)
 - ECLG 650. Applied Career Counseling (4)
 - ECLG 693. Special Topics in School Psychology (4)
 - ESPE 530. Psychology and Education of Exceptional Individuals (4)
 - ETEC 546. Computer Based Technology in Education (4)
 - EVOG 504. Principles of Adult Education (4)
 - EVOG 637. Foundations of Vocational Education (4)

CERTIFICATE PROGRAM

Certificates may be earned by regularly matriculated or Extended Learning students and denote successful completion of a prescribed program of study designed to a) impart specified professional/vocational/career competencies; or b) produce mastery of the content of a sub-field of an academic major (discipline); or c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field. Certain certificate programs contain 600-level courses as requirements and/or electives. These 600-level courses may not be taken by undergraduate students. Refer to [Page 61](#) for additional certificate information.

Certificate in Rehabilitation Counseling

Certificate Requirements (28 units)

1. ECLG 531. Introduction to Counseling (4)
2. EREH 615. Introduction to Rehabilitation Counseling (4)
3. EREH 616A. Multiple Aspects of Disability: Medical (4)
4. EREH 616B. Multiple Aspects of Disability: Vocational (4)
5. EREH 617. Vocational Assessment and Development (4)
6. EREH 618. Applied Job Placement (4)
7. EREH 649. Organizational Development of Rehabilitation Services (4)

Note: EREH 615 must be completed with a grade of "B" (3.0) or better to continue work in the certificate program.

COURSE OFFERINGS IN REHABILITATION COUNSELING (EREH)

Upper Division

542. Seminar in Rehabilitation Counseling

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Prerequisite: graduate standing or consent of instructor. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

605. Seminar Topics in Rehabilitation Counseling

Current issues in rehabilitation counseling. Seminar topics include research in rehabilitation, casework management, bilingual issues in rehabilitation and current issues in rehabilitation counseling. May be repeated for credit as topics change.

(2 units)

615. Introduction to Rehabilitation Counseling

Fundamental processes and practices of rehabilitation counseling including examination and analysis of the historical, philosophical, organizational, economic and legal basis of rehabilitation. Orientation and field visits to community rehabilitation counseling agencies required. Prerequisite: ECLG 531 or consent of instructor. (4 units)

616. Multiple Aspects of Disability

Orientation to community resources providing services to disabled persons. Multiple aspects of disabilities. Implications of disabilities for vocational adjustments and rehabilitation processes.

A. Medical. Prerequisite: EREH 615. (4 units)

B. Vocational. Prerequisite: EREH 616A or consent of instructor. (4 units)

617. Vocational Assessment and Development

Survey of methods of vocational assessment of disabled persons. Vocational development theories, occupational and career information systems and psychology of work. Prerequisites: EREH 615, 616A and 616B or consent of instructor.

(4 units)

618. Applied Job Placement

Survey of methods and techniques of job placement with different client populations in rehabilitation settings. Job analysis, job seeking training skills, placement and follow-up for rehabilitation clients. Prerequisites: EREH 615, 616A, 616B and 617 or consent of instructor. (4 units)

649. Organizational Development of Rehabilitation Services

Various types of training, administration, developmental and job placement programs used in industry, public and private rehabilitation agencies and insurance companies. Prerequisites: EREH 615, 616A, 616B, 617 and 618 or consent of instructor. (4 units)

652. Dynamics of Human Behavior

Theories of learning and human growth and development using lifespan approach from a rehabilitation counseling perspective. Includes effects of racial, lifestyle, and sex stereotyping in the community. Formerly ECLG 652. Prerequisite: ECLG 531 with a grade of "B" or better. (4 units)

667. Practicum in Rehabilitation Counseling

Supervised practice in individual rehabilitation counseling in a laboratory setting. Prerequisites: ECLG 657A and 678 or consent of instructor. (4 units)

679. Fieldwork in Rehabilitation Counseling

Field experience in Rehabilitation Counseling. Students will take fieldwork in segments of four units for a total of 12 units. Students will be allowed to take up to two segments in one quarter. Graded credit/no credit. Prerequisite: consent of program coordinator. (4 units)

SCIENCE

Master of Arts in Teaching

Science

College of Natural Sciences

Biological Sciences Building, Room 132
880-5300

COORDINATOR: Robert Stein

MASTER OF ARTS IN TEACHING—SCIENCE

Requirements (48 Units)

The Master of Arts in Teaching with a major in Science is a multi-track program for the professional science teacher designed to strengthen and broaden the student's background in science and in science education. The tracks relate to teaching in the elementary, middle or high school environment. Each one stresses a "hands-on" approach to teaching science, and provides a breadth of science coursework appropriate to that range of grade levels.

Admission to the M.A.T. Program

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

1. A baccalaureate degree from an accredited college or university;
2. A grade point average of 3.0 ("B") or better in undergraduate biology, chemistry, geoscience, physics and mathematics courses;
3. Completion of the graduate entrance writing requirement;
4. Three letters of recommendation. These should attest to the student's academic ability and aptitude for the teaching profession;
5. A letter of not more than three pages outlining background, interests, and career goals;
6. The requirements in their respective track below:

Elementary School Track

1. A valid multiple subject teaching credential or equivalent professional experience;
2. Fifteen units of science to include the following coursework:
 - a. biology with laboratory
 - b. physics or chemistry with laboratory
 - c. geoscience with laboratory
3. Precalculus mathematics.

Middle School Track

1. A valid multiple or single subject teaching credential or equivalent professional experience;
2. A total of at least 30 units in general chemistry, college physics, geological sciences and general biology;
3. A four-quarter unit course with laboratory in each of biology, chemistry, geoscience and physics;
4. Precalculus mathematics;

5. An introductory college-level course in computers or computer science.

High School Track

1. A valid multiple or single subject teaching credential or equivalent professional experience;
2. Twenty upper-division units applicable to a major in a biology, chemistry, geoscience, physics or an integrated science degree based on the above subjects;
3. A minimum of four quarter units of calculus.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Submitted a formal program of graduate work prepared in consultation with and approved by their advisory graduate committee;
3. Completed at least 12 and not more than 20 quarter units of applicable work as a graduate student at this university with the approval of the advisory committee and with a minimum of grade point average of 3.0 ("B") or better;
4. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. Advancement to candidacy for the degree;
2. A minimum of 48 quarter units of acceptable graduate level work as specified below in the formal program under one of the tracks. No less than 32 units must be completed in residence at this university;
3. Completion of the 18-unit core of courses in science and science teaching. The remaining 30 units must be chosen in accordance with the Elementary Track, the General Science Track, the Life Science Track or the Physical Science Track;
4. A grade point average of at least 3.0 ("B") in all required course work and at least a "C" (2.0) grade in all courses in the program;
5. The graduation requirement is met upon evaluation of writing samples from coursework within the program;
6. Any additional requirements not cited above and listed on [Page 364](#).

Degree Requirements (48 units)

Core Courses (18 units)

1. EDUC 623. The Science Curriculum (2)
2. EDUC 634. Research in Science Education (4)
3. EDUC 645. Issues in Science, Technology and Society in the Classroom (2)
4. NSCI 604. Nature and History of Science (4)
5. NSCI 645. Issues in Science, Technology and Society (2)
6. Four units chosen from:
 - EDUC 600. Master's Degree Project (4)
 - NSCI 694. Master's Project (4)

7. Thirty units in one of the following tracks:

Elementary School Track (30 units)

1. BIOL 301. Biology in the Classroom (4)
2. CHEM 304. Chemistry in the Classroom (2)
3. CHEM 305. Demonstration Laboratory in Chemistry (1)
4. EELB 647. Topics in Teaching Elementary Science (4)
5. GEOL 304. Geology in the Classroom (2)
6. GEOL 305. Demonstration Laboratory in Geology (1)
7. GEOL 306. Oceans and Atmospheres for the Science Teacher (3)
8. HSCI 352. Environmental Health I (4)
9. NSCI 612. Developing Elementary Science Laboratories (3)
10. PHYS 303. Astronomy for Educators (3)
11. PHYS 304. Physics in the Classroom (2)
12. PHYS 305. Demonstration Laboratory in Physics (1)

Note: After consultation with the program coordinator, an upper-division or graduate course in the same scientific discipline may be substituted for BIOL 301, CHEM 304, GEOL 304 or 306, PHYS 303 and 304.

Middle School Track (30 units)

1. ESEC 648. Topics in Teaching Middle School Science (4)
2. MATH 306. Mathematics, the Language of Science (4)
3. NSCI 633. Developing Chemistry Laboratories (1)
4. NSCI 634. Developing Geoscience Laboratories (1)
5. NSCI 635. Developing Life Science Laboratories (1)
6. NSCI 636. Developing Physics Laboratories (1)
7. Eighteen approved upper-division or graduate-level quarter units in biology, chemistry, geological sciences or physics with no more than eight units from any one discipline. These units may not include BIOL 301, CHEM 304, 305, 306, PHYS 303, 304 or 305.

Note: After consultation with an advisor, a higher numbered mathematics course may be substituted for MATH 306.

High School Track (30 units)

1. ESEC 649. Topics in Teaching Sciences at the High School Level (4)
2. MATH 307. Mathematics in Science (4)
3. NSCI 633. Developing Chemistry Laboratories (1)
4. NSCI 634. Developing Geosciences Laboratories (1)
5. NSCI 635. Developing Life Science Laboratories (1)
6. NSCI 636. Developing Physics Laboratories (1)
7. Eighteen units of approved coursework in biology, chemistry, geological sciences or physics at the upper-division or graduate level. These units may not include BIOL 303.

SOCIAL SCIENCES

Master of Arts in Social Sciences

College of Social and Behavioral Sciences

Social and Behavioral Sciences Building, Room 327
880-5524

COORDINATOR: Randi Miller

MASTER OF ARTS IN SOCIAL SCIENCES

Requirements (45 units)

The objective of the M.A. in Social Sciences is to provide students with training in the method and theory of social science, as well as the basic perspectives of the disciplines within it. While the program provides course work in the breadth of the social sciences, its emphasis is on history, political science, economics, and geography. This program is especially attractive to those pursuing a career in or seeking advancement in secondary school and community college teaching in the social sciences. Those interested in work in other types of educational and social science related fields may also benefit from this program

Admission to the M.A. Program

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

1. A baccalaureate degree in a social science discipline or in social science itself, or another baccalaureate degree with course work that satisfies the College of Social and Behavioral Sciences that the student has received adequate preparation to undertake the program;
2. A cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the major;
3. Completion of the graduate entrance writing requirement;
4. A brief statement describing the applicant's preparation for graduate study and academic and professional goals, to be submitted to the College of Social and Behavioral Sciences;
5. Three letters of recommendation, with at least two from former professors. Letters should come directly from the recommenders or be included in a placement file. It is the applicant's responsibility to determine if letters have been received.

Applicants who meet the general requirements of the university for admission to graduate study but do not meet the additional requirements listed above may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space permits, in graduate courses in the program. An unclassified postbaccalaureate student should consult with the College of Social and Behavioral Sciences to determine what steps would be necessary to advance to classified status.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the advisor, at least 12 quarter units of graduate course work at this university and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed an approved program which must have the approval of the student's advisor and the coordinator of the program.

Requirements for Graduation

1. Completed a minimum of 45 quarter units of acceptable graduate-level work, with at least 32 quarter units completed in residence at this university;
2. A grade point average of at least 3.0 ("B") in all courses taken as part of the program;
3. Successful completion of the comprehensive examination or a thesis;
4. In addition to completion of the graduate writing requirement, classified students enrolled in the M.A. in Social Sciences must satisfy the program's writing requirements by:
 - A. Successful completion of the M.A. in Social Sciences with a grade point average of "B" or better in Social Sciences core courses requiring students to write in a manner appropriate to the relevant social science disciplines; and
 - B. Successful completion of the Social Science Comprehensive Examination (SSCI 999) requiring acceptable writing skills, or preparation of an acceptable graduate thesis (SSCI 699);
5. At least 23 units of 600-level courses;
6. Any additional requirements not cited above and listed on [Page 364](#).

Comprehensive examination: Students who choose the comprehensive examination option must take that examination no earlier than in the last quarter of program course work. These students must enroll in SSCI 999. Comprehensive Examination. Students with less than a 3.0 grade point average in the program will not be permitted to take the examination. The comprehensive examination committee for each candidate will consist of the student's advisor and two other faculty teaching in the program, as mutually agreed between the candidate and the faculty. The comprehensive examination will cover the areas of social science treated in the course requirements. The examination will be graded pass/fail, and candidates failing the examination may take it a second time within one year. If a second examination is needed, the student and advisor should discuss what actions may be necessary to remedy the student's shortcomings. No student will be permitted to take the comprehensive examination more than twice.

Thesis: A student selecting the thesis option must complete a thesis that is approved by his or her thesis committee. The thesis must reflect original work and show a level of competence appropriate for a master's degree. The thesis

committee shall consist of two or three faculty members, including the student's advisor, mutually agreed upon by the student and faculty. By mutual agreement between the student and advisor, an additional member may be added to the committee. The student should enroll in SSCI 699. Thesis, in the quarter when completion of the thesis is anticipated.

Degree Requirements (45 units)

Core Courses (21 units)

1. ECON 600. Proseminar in Economics (4)
2. GEOG 600. Proseminar in Geography (4)
3. HIST 600. Proseminar in History (4)
4. PSCI 610. Proseminar in Political Science (4)
5. SSCI 600. Social and Cultural Perspectives in the Social Sciences (5)

Electives (24 units)

1. Each student must select three concentration areas from within the four "major fields:" economics, geography, history and political science. For each concentration area, the student must take two courses as electives. The following courses will be acceptable as electives:
 - A. All courses numbered 500-699 in economics, geography, history and political science. At least one course must be at the 600-level.
 - B. Other upper division courses in those departments as approved by the student's advisor and the program coordinator.

COURSE OFFERINGS IN SOCIAL SCIENCES (SSCI)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Social and Cultural Perspectives in the Social Sciences

The relationship of values, behavior, social setting, and environment in the analysis of human interaction. Both intracultural and crosscultural perspectives will be addressed in light of sociological and anthropological theories. Substantive and methodological contributions will be presented. Laboratory will provide students with hands-on research skills component. Four hours lecture and two hours laboratory. Prerequisite: consent of instructor. (5 units)

695. Directed Graduate Studies

Graduate-level independent study for students in the Master of Arts in Interdisciplinary Studies; to be conducted under direct supervision of a faculty member from the student's committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies. (Credit to be arranged: 1 to 6 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis

Independent graduate research resulting in thesis and successful defense. Prerequisites: advancement to candidacy and consent of program coordinator. (4 units)

SOCIAL WORK

Master of Social Work

Accredited by the Council on Social Work Education

Credential

Pupil Personnel Services - Social Work
(*Credential requirements can be found on Page 436.*)

Department of Social Work

Social and Behavioral Sciences Building, Room 423
880-5501

FACULTY: Janet Chang, Sandra Doe, Jane Hehnke, Trang Hoang, Beverly Johnson, Ray Liles, Nancy Mary, Rosemary McCaslin, Teresa Morris (Chair), Stephen Petty, John Preble, Zoila Gordon, George Taylor, Sam Fellows

MASTER OF SOCIAL WORK

Requirements (90 units)

The Department of Social Work offers courses leading to the Master of Social Work (MSW) degree and is designed to provide for the education of advanced social work practitioners. The program is based upon the requirements of the Council on Social Work Education, the national accrediting body for social work programs.

The MSW program is structured into two models: Model (1) offers six quarters of course work leading to the MSW degree within two academic years. This option is intended for students who can devote their time and attention to full-time, intensive study. Model (2) offers the same course work over three to four academic years (three year plan includes summer courses). It must be emphasized that an MSW program is very demanding of time and energy. The part-time program is not designed for students who must work 40 hours per week. It is necessary for these students to reduce their hours of employment. Those who must work 40 hours per week should consider a planned four-year course of study.

The MSW program offers students the choice of selecting one of three specializations within the concentration of Advanced Direct Social Work Practice. The three specializations are:

Mental Health—Prepares students to work in settings which serve the chronically mentally ill and those with problems of an emotional nature which interfere with social functioning.

Children, Youth and Families—Prepares students to work in settings which respond to such varied problems as child abuse and neglect, aging and physical disabilities.

Macro Practice—Prepares students to work at the administrative or staff level in program development and supervision, planning, and community and organizational development.

The Pupil Personnel Services Credential in Social Work (PPS-SW) prepares students to be social workers in school settings. See [Page 436](#).

Admission to the Program

1. A baccalaureate degree from an accredited college or university;
2. A grade point average of 3.0 ("B") or better in all course work;
3. An academic background in the liberal arts;
4. Completion of the graduate entrance writing requirement;
5. A year of full-time paid experience, one year internship in a social agency, or relevant volunteer service (this requirement may be waived);
6. Evidence of personal qualifications, motivation and potential that give promise of a successful social worker; an autobiographical statement, three letters of reference from individuals who are familiar with the student's academic work potential and level of maturity;
7. The following courses or their equivalents:
 - A. SOC 307. Social Research I
 - B. SOC 339. Socialization
 - C. A course in biology or health science, which would give the student an understanding of basic human physiology.

Course Waivers

Students are permitted to satisfy course requirements in the foundation year curriculum by passing a challenge assessment in each required course. Courses which are successfully challenged must be substituted with an approved elective so that a total of 90 units is completed for the master's degree. Field work courses are not subject to waiver.

Students with BSW degrees from universities or colleges with accredited BSW programs are required to meet with their faculty advisor prior to beginning course work to determine whether any foundation year MSW courses are redundant with their undergraduate preparation. Such determination may be based on course syllabi, texts, informal evaluation or formal examination. Each course waived for the qualified BSW applicant must be substituted with an approved elective so that a total of 90 units is completed for the master's degree.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Satisfied the general university requirements for advancement to candidacy;
3. Selected a thesis committee and gained approval of the thesis topic by the thesis committee if a thesis is chosen;
4. Completed with a grade point average of 3.0 ("B"), at least 48 quarter units of course work;
5. Demonstrated academic and professional competence in field and classroom.

Requirements for Graduation

1. A minimum of 90 quarter units of designated graduate courses as approved on the petition for advancement to candidacy. Seventy-seven of the quarter units must be completed at this university (with the exception of MSW course work from an accredited program);
2. A grade point average of at least 3.0 ("B") in all course work;
3. Completion of a culminating research project or a thesis;

4. Up to one half of the course work (45 quarter units) may be transferred from an accredited MSW program. Only grades of "B" (3.0) or better will be accepted and students must first be accepted for admission. Courses not in keeping with program requirements may not be acceptable;
5. Completion of all MSW coursework within a four year period;
6. Completion of SW 625AB. Research Project, which will fulfill the graduation writing requirement;
7. Any additional requirements not cited above and listed on [Page 364](#).

Electives

In lieu of taking all electives in the social work curriculum, students may elect to take up to eight units of relevant 500- or 600-level electives from other disciplines with the approval of their advisor.

Accreditation

The program was granted full accreditation by the Commission on Accreditation of the Council on Social Work Education in February, 1992. Questions regarding accreditation should be directed to the chair of the Department of Social Work.

Residency

The student must carry an academic workload of a minimum of eight units of 500- or 600-level course work for three consecutive quarters to achieve the residency requirement of full-time graduate status as defined by the university.

Degree Requirements (90 units)

The program is structured into two Models: Model 1 offers six quarters of course work leading to the MSW degree in two years. Model 2 offers course work leading to the MSW degree in three or four years. The timing of particular courses for the Model 1 and Model 2 programs are described in The MSW Student Handbook, available in the department office.

In keeping with accreditation requirements, all course work for the MSW degree must be completed within four years and students must enroll in at least two courses during each quarter for which they are registered. (The latter requirement does not apply to summer sessions.)

Course work required for the MSW degree is divided into a foundation curriculum and the concentration curriculum. In Model 1, foundation courses are completed in the first three quarters of study; in Model 2, the same courses are taken over the first two years of study. Courses in the concentration curriculum are taken in the second year of Model 1; the third year of a three-year program is virtually identical to a full-time program in coverage of the concentration. In a four year program, the concentration courses are taken in the last two years of study. At the beginning of the concentration curriculum, students elect to specialize in either Mental Health, Practice with Children, Youth and Families or Macro Practice.

Required courses leading to the MSW degree cover five curricular areas: Direct Practice, Human Behavior in the Social Environment (HBSE), Social Policy, Research, and Field. Courses within each category must be completed in sequence, as they are listed below, and all foundation courses in a category must be completed before registering in concentration courses in the same category.

Foundation Year (52 units)

1. Practice:
 - SW 600. Social Work with Task Groups, Organizations and Communities (4)
 - SW 602A. Social Work Practice: Individuals (4)
 - SW 602B. Social Work Practice: Families and Groups (4)
2. HBSE:
 - SW 604A. Human Behavior and the Social Environment: Birth through Adolescence (4)
 - SW 604B. Human Behavior and the Social Environment: Adulthood and Aging (4)
 - SW 604C. Psychopathology (4)
3. Policy:
 - SW 606A. Social Welfare Policy: History (4)
 - SW 606B. Social Welfare Policy: Practice (4)
4. Research:
 - SW 612. Social Work Research I (4)
 - SW 613. Social Work Research II (4) (taken during the first year of advanced study)
5. Field:
 - SW 608A. Field Work (4)
 - SW 608B. Field Work (4)
 - SW 608C. Field Work (4)

Advanced Courses (38 units)

1. Research:
 - SW 625A. Research Project (2)
 - SW 625B. Research Project (2)
2. Field:
 - SW 608D. Field Work (4)
 - SW 608E. Field Work (4)
 - SW 608F. Field Work (4)
3. Specialization Practice Courses
Choose one of the following specializations:
 - Children, Youth and Families Specialization:**
 1. SW 614. Child Abuse and Neglect (4)
 2. SW 618. Seminar in Practice with Children, Youth and Families (4)
 3. SW 623. Integrative Seminar in Children, Youth and Families (2)
 4. SW 640. Advanced Direct Social Work Practice (4)
- Macro Practice:**
 1. SW 650. Theories of Community Practice (4)
 2. SW 651. Strategies of Change in Organizations and Communities (4)
 3. SW 652. Integrative Seminar in Macro Leadership (2)
 4. Four units chosen from:
 - PA 514. Management of Private Nonprofit Organizations (4)
 - PA 611. Public Administration: Theory and Practice (4)
 - PA 630. Program Evaluation (4)
 - PA 662. Human Resource Management in the Public Sector (4)
 - PA 664. Management of Public Organizations (4)
 - PA 680. Public Policy Analysis (4)
 - SW 626. Social Service Administration (4)

Mental Health Specialization:

1. SW 619. Seminar in Practice in Mental Health (4)
 2. SW 620. Social Work with Alcohol and Drug Abuse (4)
 3. SW 624. Integrative Seminar in Mental Health (2)
 4. SW 640. Advanced Direct Social Work Practice (4)
4. Eight units of electives, approved by an advisor if taken outside the department.

Note: The research project represents the culminating graduate experience. A thesis may be done as an expansion of the research project but is optional. The research project is developed in SW 613 (Social Work Research II) and is carried out in the field setting. It must be on a specialization-specific topic, must use objective analysis and will be presented to faculty and field personnel orally and in writing.

COURSE OFFERINGS IN SOCIAL WORK (SW)

Upper Division**595. Independent Study**

Special topics involving library and/or field research. Prerequisite: consent of instructor. (Credit to be arranged: 1 to 4 units)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Social Work with Task Groups, Organizations and Communities

An overview of macro practice social work roles. In addition students work in task groups to assess the needs and resources of communities and/or organizations. Prerequisites: classified graduate standing in the MSW program and consent of department. (4 units)

602. Social Work Practice

Analysis of theories, practice, principles and techniques relating to the treatment of individuals, families and small groups. Prerequisites: classified graduate standing in the MSW program and consent of department.

- A. Individuals (4 units)
- B. Families and Groups (4 units)

604. Human Behavior in the Social Environment

Critical appraisal and review of individual development from infancy through old age, from biological, sociological, cultural and psychological perspectives. Prerequisites: classified graduate standing in the MSW program and consent of department.

- A. Birth Through Adolescence (4 units)
- B. Adulthood and Aging (4 units)
- C. Psychopathology. An advanced human behavior course giving the student an understanding of dysfunctional behavior and the application of DSM to the diagnostic function. Formerly SW 627. Prerequisites: SW 604A, 604B and consent of department. (4 units)

606. Social Welfare Policy

An analysis and study of social welfare from a historical perspective, making note of the ideologies that have affected our contemporary social welfare policy. Prerequisites: classified graduate standing in the MSW program and consent of department.

- A. History (4 units)
- B. Practice (4 units)

608. Field Work

Advanced practice experience in public and private agencies with individuals, families, groups, formal organizations and communities. Graded credit/no credit. Prerequisites: classified graduate standing in the MSW program and consent of department.

- A. (4 units)
- B. (4 units)
- C. (4 units)
- D. (4 units)
- E. (4 units)
- F. (4 units)

612. Social Work Research I

Theory, practice and methods of data collection and analysis. An examination of the role of research in the development of social work. Prerequisites: classified graduate standing in the MSW program and consent of department. (4 units)

613. Social Work Research II

Further examination of the role of research in the development of social work theory, practice and methods of data collection and analysis. Prerequisites: SW 612 and consent of department. (4 units)

614. Child Abuse and Neglect

Critical analysis of child maltreatment and neglect, focusing upon recent research and treatment innovations. Satisfies California LCSW and MFCC requirements. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

615. Domestic Violence

An introduction to the knowledge, skills, and values utilized in direct social work practice with victims and perpetrators of domestic violence. (4 units)

616. Human Sexuality and Social Work Practice

Critical analysis of issues and problems associated with human sexuality with an emphasis on sexually oppressed groups and the sexual life cycle from a psychosocial perspective. Satisfies California LCSW and MFCC requirements. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

618. Seminar in Practice with Children, Youth and Families

Specialized practice issues related to the evaluation and treatment of client dysfunctions in settings which serve children, youth and families. Prerequisites: SW 640 and consent of department. (4 units)

619. Seminar in Practice in Mental Health

Specialized practice issues related to the evaluation and treatment of client dysfunctions in settings that serve the chronically mentally ill as well as those experiencing emotional distress. Prerequisites: SW 640 and consent of department. (4 units)

620. Social Work with Alcohol and Drug Abuse

An examination of theories, research and treatment regarding alcohol and drug abuse. Satisfies California LCSW and MFCC requirement. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

621. Group Work With Alcohol and Drug Abuse

Training in group work with persons affected by chemical dependency. Course includes group communication theory, a study of behaviors common to chemical dependency, and assessment and techniques of group intervention. (4 units)

622. Crisis Intervention and Emergency Treatment

An examination of crisis theory. Principles and practice of crisis intervention treatment. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

623. Integrative Seminar in Child, Youth and Families

Integration of practice theory, research, HBSE and social policy to develop responses to problems of clients serviced by agencies who respond to the needs of children, youth and families including child abuse, physical disability, problems of the elderly and financial difficulties. Prerequisites: SW 618 and consent of department. (2 units)

624. Integrative Seminar in Mental Health

Integration of practice theory, research, HBSE and social policy in developing responses to problems of clients in agencies who respond to chronic mental illness and emotional dysfunction. Prerequisites: SW 619 and consent of department. (2 units)

625. Research Project

A culminating graduate experience in which a practice issue specific to the student's field setting and specialization is objectively evaluated and presented orally and in writing.

- A. Students gather data and complete initial stages of implementation of research project. Prerequisites: SW 612, 613 and consent of department. (2 units)
- B. Students complete data analysis, write the research report and present findings. Prerequisites: SW 612, 613, 625A and consent of department. (2 units)

626. Social Service Administration

Study of public and private social service organization management, including organizational goals and processes, fundraising, public relations, and fiscal and human resources. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

628. Community Organization

Prepares the social work student for work in communities to identify community problems, to stimulate development of appropriate organizations and to bring about social change. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

629. Advanced Social Welfare Policy Analysis

Examines in an analytical, behavioral and systems sciences approach social welfare policy with an emphasis on the development of evaluative skills in applied decision making. This course is equivalent to PA 680. Public Policy Analysis. Students may not receive credit for both. Prerequisites: SW 606A, 606B and consent of department. (4 units)

630. Social Work Intervention with Families

Study of social work practice situations in which the family is the primary unit of treatment. Includes the work of Satir, Ritchie and Bowen among others. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

631. Social Work Intervention with Children

Preparation for social work practice with children who have serious social, emotional and physical difficulties. The course prepares students for work in social work settings such as family service and community mental health settings where dysfunctional children are often seen. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

632. Forensic Social Work

Focus on evidential and procedural rules in court testimony which relate to social work practice. Emphasis on court testimony involving child abuse and neglect, sexual violence, and institutionalization of the mentally ill. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

633. Social Work Intervention with the Elderly

Intervention with the elderly. Case management functions of social work practice with the elderly as well as clinical interventions in problems often troubling the elderly. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

634. Play Therapy With Children in Crisis

Examines the theoretical background of play therapy, the assessment of children in crisis, the goals, process and technique of play therapy. (4 units)

635. Supervision in Social Work

Review of major supervisory functions in social work agencies with special attention to clinical supervision of practice, supervising compliance with agency policies and supervision of agency workload expectations. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

637. School Social Work

Addresses competences such as social work with students and teachers in the classroom setting; social work with students and their families around learning issues and family problems; the application of learning theory to students' school experience; social work with diverse student populations; case management of services both inside and outside the school site; and social work in the community setting to promote student learning. (4 units)

640. Advanced Direct Social Work Practice

Advanced practice course for students in the direct practice concentration. Considers practice issues, theories and techniques utilized in the Mental Health and the Children, Youth and Families specializations. Prerequisites: classified graduate standing in the MSW program and consent of department. (4 units)

641. Social Work and the Law

Addresses the knowledge and skills needed by social workers when interfacing with the legal system in various social work practice settings including children, youth and families; and mental health. Formerly a topic under SW 690. (4 units)

650. Theories of Community Practice

Theoretical foundations of community practice, including models of locality development, social planning, and social action. Covers approaches relevant to different communities. Prerequisite: classified graduate standing with the MSW program or consent of department. (4 units)

651. Strategies of Change in Organizations and Communities

Study of strategies for development and change in social service and community based organizations, networks and coalitions. Prerequisite: classified graduate standing with the MSW program or consent of department. (4 units)

652. Integrative Seminar in Macro Leadership

Integration of the macro specialization coursework with the development of leadership skills. Prerequisite: classified graduate standing with the MSW program or consent of department. (2 units)

690. Advanced Topics in Social Work

An intensive study of some aspect of social work. May be repeated for credit as topics change. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

698. Extended Enrollment

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 698 each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 698 through the university have full use of all university facilities. (Note: Students enrolled in 698 through the College of Extended Learning and taking no other courses through the regular university have access only to the library and their professor.) See [Page 367](#), Culminating Experience: Exam, Thesis, or Project. Prerequisites: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies. (0 units)

699. Thesis Research

Preparation of a thesis for the Master of Social Work degree program under the direction of a student's thesis committee. Prerequisites: classified graduate standing and consent of department. (4 units)

SOCIOLOGY

Department of Sociology

Faculty Office Building, Room 145
880-5541

The following courses are offered in support of graduate degree programs offered at this university.

COURSE OFFERINGS IN SOCIOLOGY (SOC)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

606. Sociology of Terrorism

Ideology, causes, development and sociological effects of terrorism in society. Also included are the histories of terrorist groups, social-psychological profiles of members, technology and modus operandi. (4 units)

SPANISH

Department of Foreign Languages and Literatures

University Hall, Room 314
880-5847

The following courses are offered in support of graduate degree programs offered at this university.

COURSE OFFERINGS IN SPANISH (SPAN)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

600. Theory of Rhetoric and Composition

Traditional and contemporary approaches to rhetoric, composition and style. Prerequisite: admission to the M.A. in Education, Secondary Education (Spanish) Option, or consent of instructor. (4 units)

601. Practicum in Cultural Experience

Supervised learning experience utilizing Spanish in practical campus and/or community settings with emphasis on leadership development. Generally assumes a minimum of 60 hours of work/study per quarter. Prerequisite: admission to the M.A. in Education, Secondary Education (Spanish) Option, or consent of instructor. (2 units)

602. Problems in Applied Linguistics

The study of contemporary theories of linguistic analysis and their applications to literature, film, grammar, and composition. Prerequisite: admission to the M.A. in Education, Secondary Education (Spanish) Option, or consent of instructor.

- A. Modern Grammar (4 units)
- B. Bilingualism (4 units)
- C. Discourse Analysis (4 units)

603. Cultural Studies

Analysis of the salient features of modern Latino culture including but not limited to gender, literature, and ethnicity. Prerequisite: admission to the M.A. in Education, Secondary Education (Spanish) Option, or consent of instructor. (4 units)

604. Instructional Technology and Design

Survey of audio and computer-based technologies commonly available in language media centers and instruction in the design of courseware, the use of authoring systems, and the design of pedagogical materials. Three hours lecture and two hours laboratory. Prerequisites: CSCI 127 or equivalent; and admission to the M.A. in Education, Secondary Education (Spanish) Option, or consent of instructor. (4 units)

605. History of the Spanish Language

History of the Spanish language from pre-Roman days to the present. Prerequisite: admission to the M.A. in Education, Secondary Education (Spanish) Option, or consent of instructor. (4 units)

THEATRE ARTS

Department of Theatre Arts

Creative Arts Building, Room 111
880-5876

The following courses are offered in support of graduate degree programs offered at this university.

COURSE OFFERINGS IN THEATRE ARTS (TA)

Graduate/Postbaccalaureate

May not be taken by undergraduate students

602. Seminar in Dramatic Literature for Stage and Film

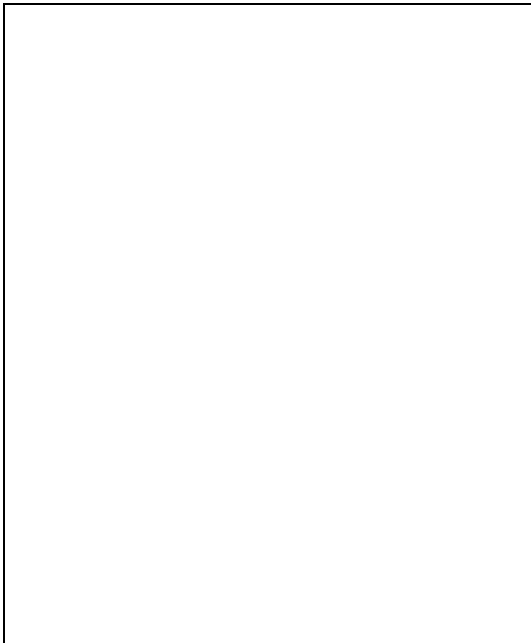
Advanced study in particular kinds of dramatic literature and film with special focus on generic problems and issues. May be repeated for credit as topics change. (Also offered as ENG 602. Students may not receive credit for both.) (4 units)

650. Seminar in Dramatic Production

Advanced studies in theatrical production theories and methods, with special focus on generic issues or problems encountered when transferring dramatic literature to the stage. May be repeated for credit as topics change. (4 units)

FACULTY

2002-2003



Dr. Peter Robertshaw
Professor of Anthropology

Outstanding Professor, 2002

Susan L. Addington, 1988
Professor of Mathematics
 B.S. 1976, Marlboro College; M.A. 1978, Ph.D. 1981, State University of New York at Stony Brook.

Mark D. Agars, 1999
Assistant Professor of Psychology
 B.A. 1992, Sienna College; M.S. 1996, Ph.D. 1999, Pennsylvania State University.

William Aguilar, 1989
Librarian; Vice President for Information Resources and Technology
 B.A. 1970, Adams State College; M.S. 1974, University of Wisconsin-Madison; Ph.D. 1983, University of Illinois, Urbana.

Alexander Aitcheson, 2001
Lecturer in Education
 B.S. 1973, M.S. 1976, Southern Connecticut State University.

Carolyn B. Aldana, 1995
Associate Professor of Economics
 B.A. 1990, California State University, San Bernardino; M.A. 1992, Ph.D. 1995, University of California, Riverside.

Jennifer L. Andersen, 1996
Assistant Professor of English
 B.A. 1988, University of California, Los Angeles; M.A. 1991, Ph.D. 1996, Yale University.

Patricia K. Arlin, 1997
Professor of Education; Dean, College of Education
 B.S. 1963, Mundelein College; M.A. 1967, Fordham University; Ph.D. 1974, University of Chicago.

Richard Ashcroft, 1989
Professor of Education
 B.S., Ed. 1966, East Stroudsburg State University; M.A. Ed. 1981, Sonoma State University; Ed.D. 1990, University of San Francisco.

Parviz Asheghian, 1991
Professor of Economics
 B.A. 1971, Iranian Institute of Advanced Accounting; M.B.A. 1973, University of Detroit; M.A. 1976, University of Florida; Ph.D. 1980, Georgia State University.

Yvonne Atkinson, 2001
Assistant Professor of English
 B.A. 1993, M.A. 1995, California State University, San Bernardino; Ph.D. 2001, University of California, Riverside.

C. Mo Bahk, 2001
Assistant Professor of Communication Studies
 B.A. 1980, Yonsei University, Seoul, Korea; M.A. 1983/1990, SUNY, Albany; Ph.D. 1994, Michigan State University.

Maria V. Balderrama, 1994
Associate Professor of Education
 B.A. 1978, Wellesley College; M.A. 1988, San Jose State University; M.A., Ed.S., Ph.D. 1994, Stanford University.

Russell J. Barber, 1984
Professor of Anthropology
 B.A. 1972, University of Vermont; A.M. 1974, Ph.D. 1979, Harvard University.

518 / Faculty

Elliott R. Barkan, 1968

Professor of History

B.A. 1962, Queens College; M.A. 1963, Ph.D. 1968, Harvard University.

Buckley B. Barrett, 1982

Librarian; Head, Automation Services

B.A. 1970, University of California, Los Angeles; M.S. 1973, University of Southern California.

Lisa Bartle, 1999

Senior Assistant Librarian

B.A. 1990, University of California, Santa Barbara; M.A. 1993, University of California, Riverside; M.L.I.S. 1997, University of California, Los Angeles.

G. R. Bassiry, 1987

Professor of Management

B.S. 1970, Accounting Advanced Institute, Tehran; M.B.A. 1974, University of Scranton; M.A. 1976, Ph.D. 1977, State University of New York, Binghamton.

Francisca Beer, 1990

Professor of Accounting and Finance

B.A. 1982, M.A. 1983, University of Catholique de Mons; Ph.D. 1990, Catholic University of Louvain.

Susan Beiner, 2000

Assistant Professor of Art

B.F.A. 1985, Rutgers University; M.F.A. 1993, University of Michigan.

David J. Bellis, 1985

Professor of Public Administration; Chair, Department of Public Administration

B.A. 1966, University of California, Los Angeles; M.A. 1969, Ph.D. 1977, University of Southern California.

Jacques Benzakein, 1985

Professor of Foreign Languages and Literatures

B.A. 1964, Andrews University; M.A. 1966, University of Wisconsin; Ph.D. 1986, University of California, Riverside.

Frances F. Berdan, 1973

Professor of Anthropology

B.A. 1965, M.A. 1967, Michigan State University; Ph.D. 1975, University of Texas.

Gisela Bichler-Robertson, 2000

Assistant Professor of Criminal Justice

B.A. 1994, Simon Frazier University; M.A. 1996, Ph.D. 2000, Rutgers University.

Cynthia J. Bird, 1989

Professor of Accounting and Finance

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- B. Jill Buroker, 1981**
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- Kris B. Carlisle, 2001**
Lecturer in Music
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- B. Robert Carlson, 2001**
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 B.A. 1964, Trinity University; M.Ed. 1967, Ph.D. 1968, University of Texas-Austin.
- David Carlson, 2001**
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 B.A. 1966, Ottawa University; M.S. 1986, University of Nebraska.
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Professor of Management
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- Janet C. Chang, 1999**
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Professor of Accounting and Finance; Chair, Department of Accounting and Finance
 B.S. 1973, National Taiwan University; M.A.S. 1980, Ph.D. 1984, University of Illinois.
- Ralph James Charkins, 1976**
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- David V. Chavez, 1988**
Associate Professor of Psychology
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- Dorothy C. Chen-Maynard, 1992**
Associate Professor of Health Science and Human Ecology
 B.S. 1978, University of Southern California; M.S. 1981, California State University, Los Angeles; Ph.D. 1994, University of California, Davis.
- Rong Chen, 1992**
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- Zeng-yin Chen, 2001**
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- Yu-Chin Chien, 1989**
Professor of Psychology
 B.S. 1975, Chengchi University (Taiwan Intl.); M.S. 1979, Ph.D. 1983, Cornell University.
- C. Charles Christie, Jr., 1972**
Professor of Public Administration
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- Frances S. Coles, 1978**
Professor of Criminal Justice
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B.S. 1985, Eastern Oregon State University; M.S. 1987, Southern Oregon State College; Ph.D. 1997, Oregon State University.
- Leo G. Doyle, 1971**
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Associate Professor of Music; Chair, Department of Music
B.M., B.M.A. 1980, University of Northern Colorado; M.M. 1984, University of Wyoming; D.M.A. 1996, University of Missouri-Kansas City.
- Harold Dyck, 1989**
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- Robert Earnest, 2000**
Assistant Professor of Theatre Arts
B.A. 1982, University of North Alabama; M.F.A. 1986, University of Miami; Ph.D. 1996, University of Colorado.
- Richard M. Eberst, 1991**
Professor of Health Science and Human Ecology
B.A. 1969, Park College; M.A. 1970, Ball State University; Ph.D. 1977, University of Maryland.
- Carolyn R. Eggleston, 1991**
Associate Professor of Education
B.S. 1973, M.A. 1975, Tennessee Tech. University; Ph.D. 1989, Virginia Commonwealth University.
- Cherrlyn F. Eller, 1991**
Lecturer in Management
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- Stuart R. Ellins, 1973**
Professor of Psychology; Chair, Department of Psychology
A.B. 1967, University of Miami; M.A. 1970, Ph.D. 1972, University of Delaware.
- Edward J. Erler, 1975**
Professor of Political Science
B.A. 1967, San Jose State University; M.A. 1969, Ph.D. 1973, Claremont Graduate School.
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Professor of Theatre Arts
B.F.A. 1978, Wayne State University; M.F.A. 1980, Illinois State University.
- Paul Esposito, 1976**
Coordinator of Placement Services, Career Development Center
B.A. 1967, William Penn College; M.S. 1974, Ed.D. 1976, Indiana University.
- Bertram H. Fairchild, Jr., 1983**
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- Daniel F. Fahey, 2001**
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- Kamvar Farahbod, 1991**
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B.A. 1976, University of Tehran; M.S. 1979, Ph.D. 1986, Oklahoma State University.
- Richard Fehn, 1983**
Professor of Biology
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- Hajrudin Fejzic, 1994**
Associate Professor of Mathematics
B.S. 1987, University of Sarajevo, Sarajevo, Bosnia and Herzegovina; Ph.D. 1992, Michigan State University.
- James V. Fenelon, 1999**
Assistant Professor of Sociology
B.A. 1978, Loyola Marymount University; M.A. 1981, M.A. 1983, School of International Training; Ph.D. 1995, Northwestern University.
- Louis A. Fernández, 1991**
Professor of Geological Sciences; Provost and Vice President for Academic Affairs
B.A. 1975, City College of New York; M.S. 1964, University of Tulsa; Ph.D. 1969, Syracuse University.
- Arturo Fernandez-Gibert, 2001**
Assistant Professor of Foreign Languages and Literature
B.A. 1988, M.A. 1991, Universidad Complutense de Madrid; Ph.D. 2001, University of New Mexico, Albuquerque.
- James A. Ferrari, 1990**
Professor of Biology
B.A. 1975, Queens College, CUNY; M.S. 1979, Ph.D. 1985, University of California, Riverside.
- Lanny B. Fields, 1985**
Professor of History
B.A. 1963, DePauw University; M.A. 1966, University of Hawaii; Ph.D. 1972, Indiana University.
- Loren H. Filbeck, 1972**
Professor of Music; Associate Dean, College of Arts and Letters
B.A. 1964, M.A. 1968, Occidental College; D.M.A. 1975, University of Illinois.

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Cheryl Fischer, 1990

Professor of Education; Chair, Department of Educational Leadership and Curriculum

B.Ed. 1968, M.Ed. 1972, University of Hawaii; Ph.D. 1982, Claremont Graduate University.

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Professor of Computer Science

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Professor of Education

B.A. 1966, College of St. Francis; M.A. 1971, Michigan State University; Ph.D. 1991, Claremont Graduate University.

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Bruce Golden, 1965

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- Gary R. Griffing, 1987
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Professor of Education
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- Jeffrey D. Hackel, 1990
Associate Professor of Geography
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- Bryan Haddock, 2001
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- Joan T. Hallett, 1981
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- Ilseop Han, 2001
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- Joyce A. Hanson, 1998
Assistant Professor of History
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- Lee W. Hanson, 1991
Professor of Management
B.A. 1977, Indiana University; M.P.A. 1980, California State University, Long Beach; Ph.D. 1992, University of California, Irvine.
- Vernon B. Harper, Jr., 1999
Assistant Professor of Communication Studies
B.A. 1992, The Pennsylvania State University; M.A. 1997, West Chester University, Pennsylvania.
- Zahid Hasan, 1985
Professor of Mathematics
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- John M. Hatton, 1967
Associate Professor of Psychology; Director, Counseling and Health Services
B.A. 1961, University of Minnesota; Ph.D. 1965, Stanford University.
- Carol P. Haviland, 1987
Associate Professor of English
B.A. 1962, Loma Linda University; M.A. 1969, Boston College; Ph.D. 1994, University of California, Riverside.
- Frederick Hebein, 1989
Professor of Marketing
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- John W. Heeren, 1971
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Professor of Accounting and Finance
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Rauf A. Khan, 1976

Professor of Accounting and Finance

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B.F.A. 1978, So Gang University; M.B.A. 1984, West Georgia College; Ph.D. 1990, Arizona State University.

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Assistant Professor of Psychology

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Professor of Education
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- Kevin G. Lamude, 1991
Professor of Communication Studies
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- Kenneth E. Lane, 1989
Professor of Education
B.S. 1969, Indiana State University; M.Ed. 1973, University of Missouri; Ed.D. 1983, Texas A&M University-Commerce.
- Barbara D. Larrivee, 1988
Professor of Education
B.A. 1969, Westfield State College; M.Ed. 1973, Ed.D. 1975, University of Massachusetts.
- Robin Larsen, 1995
Associate Professor of Communication Studies
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- W. Britt Leatham, 1987
Associate Professor of Geological Sciences
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- Amy S. C. Leh, 1998
Associate Professor of Education
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- Michael C. LeMay, 1992
Professor of Political Science
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- Brian Levin, 1999
Assistant Professor of Criminal Justice
B.A. 1989, University of Pennsylvania; J.D. 1992, Stanford Law School.
- Michael Lewin, 1995
Associate Professor of Psychology
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- Ray Liles, 2001
Assistant Professor of Social Work
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- Frank M. Lin, 1991
Professor of Information and Decision Sciences
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- Patricia Little, 1993
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- Susan L. Lloyd, 1998
Assistant Professor of Nursing
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- Robert H. London, 1995
Associate Professor of Education
B.A. 1969, M.S. 1971, University of Pennsylvania; Ed.D. 1975, University of Massachusetts, Amherst.
- Angela Louque, 2000
Associate Professor of Education
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- Janice Loutzenhiser, 1976
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- Joseph Lovett, 1989
Associate Professor of Health Science and Human Ecology
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- Lee A. Lyons, 1990
Professor of Theatre Arts
B.F.A. 1982, M.F.A. 1988, San Diego State University.
- Ward M. McAfee, 1965
Professor of History
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- Marjorie McCabe, 1990
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- Sanders McDougall, 1991
Professor of Psychology
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- Lal Mian, 1999
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B.Sc. 1967, M.Sc. 1972, University of Peshawar, Pakistan; M.S. 1974, American University, Beirut, Lebanon; Ph.D. 1982, University of California, Riverside.
- Randi L. Miller, 1987
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- Steven Mintz, 1996
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B.S. 1967, Long Island University; M.B.A. 1969, Syracuse University; D.B.A. 1978, The George Washington University.
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- Clark Molstad, 1984
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- Craig Monroe, 1993
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- Thomas E. Moody, 1985
Associate Professor of Philosophy
B.A. 1970, University of Wisconsin; Ph.D. 1982, University of Minnesota.
- Joseph R. Moran, 1972
Professor of Art; Chair, Department of Art
B.A. 1970, University of California, Riverside; M.F.A. 1972, Claremont Graduate University.
- Teresa Morris, 1989
Professor of Social Work; Chair, Department of Social Work
B.Sc. 1971, University of Loughborough, England; M.S.W. 1984, University of Hawaii; D.S.W. 1988, University of California, Berkeley.
- James L. Mulvihill, 1981
Professor of Geography; Chair, Department of Geography
B.A. 1968, M.A. 1972, State University of New York at Buffalo; Ph.D. 1976, Michigan State University.
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Assistant Professor of Education
B.A. 1986, California State University, Long Beach; B.A. 1988, M.A. 1995, University of California, Los Angeles; Ph.D. 1999, The University of North Carolina.
- Owen J. Murphy, 1990
Professor of Computer Science
B.A. 1979, Holy Cross; M.S. 1982, Worcester Polytechnic Institute; Ph.D. 1985, Syracuse University.
- Kathleen M. Nadeau, 1999
Assistant Professor of Anthropology
B.S. 1976, Fitchburg State University; M.A. 1980, University of San Carlos; Ph.D. 1995, Arizona State University.
- Chris Naticchia, 1995
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B.A. 1985, Cornell University; M.A. 1987, New York University, New York; Ph.D. 1995, University of Virginia, Charlottesville.
- Gary A. Negin, 1985
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B.A. 1971, University of Notre Dame; M.Ed. 1974, Florida Atlantic University; M.A. 1988, Marquette University; Ph.D. 1977, University of Minnesota.
- Terri J. Nelson, 1995
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- Eric J. Newman, 2001
Assistant Professor of Marketing
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- Frederick A. Newton, 1975
Professor of Psychology
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- Wesley A. Niewoehner, 2001
Assistant Professor of Anthropology
B.A. 1982, Colorado College; M.A. 1990, Colorado State University; Ph.D. 2000, University of New Mexico.
- Eric Nilsson, 1989
Professor of Economics
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- Ruth A. Norton, 1985
Professor of Education
B.A. 1969, University of Northern Iowa; M.S. 1984, Ed.D. 1985, Syracuse University.
- James S. Okon, 1981
Professor of Mathematics
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- Shari Oliver, 1993
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Cynthia L. Paxton, 1979

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B.S. 1973, California State University, Chico; M.A. 1974, San Diego State University; Ph.D. 1979, University of Oregon.

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B.A. 1964, California State College, Humboldt; M.A. 1978, California State University, Long Beach; Ph.D. 1981, Arizona State University.

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William D. Peterson, 1998

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Thomas J. Pierce, 1976

Professor of Economics
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James C. Pierson, 1971

Professor of Anthropology
B.A. 1965, M.A. 1969, Sacramento State College; Ph.D. 1972, Washington University.

Renee Pigeon, 1990

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Bonnie J. Piller, 2000

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Shelly Pope, 1993

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B.S. 1981, M.S. 1989, California State University, San Bernardino.

Chetan Prakash, 1984

Professor of Mathematics
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Gregory L. Price, 1971

Professor of Kinesiology
B.S. 1969, Fort Hays Kansas State College; M.S. 1972, California State College, Long Beach; Ed.D. 1978, Brigham Young University.

Reginald L. Price, 1978

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B.S. 1964, MacMurray College; M.A. 1967, The Ohio State University; Ed.D. 1973, Oklahoma State University.

Jerrold E. Pritchard, 1983

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B.A. 1964, M.A. 1966, California State University, Sacramento; D.M.A. 1969, University of Washington.

- Thomas E. Provenzano, 1992
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- S.E.C. Purvis, 1993
Professor of Accounting and Finance
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- Barbara A. Quarton, 1999
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Associate Professor of Music
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- Johnnie Ann Ralph, 1971
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- Nabil Y. Razzouk, 1982
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- Patricia D. Reed, 1988
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Associate Professor of Psychology
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- Iris Riggs, 1988
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- Dan C. Rinne, 1982
Professor of Mathematics
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- Richard H. Rowland, 1975
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Pamela J. Schram, 1998

Assistant Professor of Criminal Justice

B.S. 1988, Loyola University of Chicago; M.A. 1990, Rutgers
University; Ph.D. 1996, Michigan State University.

Kathleen E. Schroeder, 1991

Lecturer in Natural Sciences

B.A. 1985, M.A. 1987, California State University,
San Bernardino.

Peter R. Schroeder, 1967

Professor of English

A.B. 1962, Stanford University; M.A. 1963, Ph.D. 1967,
Harvard University.

John A. Scribner, 1978

Professor of Accounting and Finance

B.S. 1973, M.B.A. 1974, University of California, Riverside.

Dale K. Sechrest, 1990

Professor of Criminal Justice

B.A. 1964, M.A. 1966, San Jose State University; D.Crim. 1974,
University of California, Berkeley.

Victoria A. Seitz, 1991

Professor of Marketing

B.S. 1978, Kansas State University; M.S. 1984, Ph.D. 1987,
Oklahoma State University.

Ann M. Selmi, 1998

Assistant Professor of Education

B.A. 1972, Santa Clara University; M.Ed. 1981, Boston College;
Ph.D. 1990, University of Southern California.

Billie P. Sessions, 1996

Associate Professor of Art

B.F.A. 1970, M.Ed. 1985, Utah State University; Ph.D. 1997,
Pennsylvania State University.

Janel Sexton, 2001

Assistant Professor of Psychology

B.A. 1992, University of California, San Diego; M.A. 1994,
San Diego State University; Ph.D. 2001, University of Texas
at Austin.

Hossein Shalchi, 1989

Professor of Accounting and Finance

B.S. 1969, Tehran University; M.B.A. 1975, University of
Southern California; Ph.D. 1981, University of Illinois.

Lisa Shamansky, 1989

Associate Professor of Chemistry

B.S. 1980, Indiana University, Bloomington; Ph.D. 1986,
University of Illinois, Urbana.

Conrad Shayo, 1994

Professor of Information and Decision Sciences

B. of Commerce 1981, University of Dar-Es-Salaam, Tanzania;
M.B.A. 1985, University of Nairobi, Kenya; Ph.D. 1995,
Claremont Graduate University.

Kenneth S. Shultz, 1992

Professor of Psychology

B.A. 1984, State University of New York, College at Potsdam;
M.A. 1987, Ph.D. 1992, Wayne State University.

- Donna E. Simmons, 1997
Assistant Professor of Communication Studies
B.A. 1978, California State University, Fullerton; M.O.B. 1991, Brigham Young University.
- A. I. Clifford Singh, 1984
Professor of Kinesiology
B.S. 1973, M.S. 1974, Western Illinois University; Ph.D. 1977, University of Colorado.
- Barbara Sirotnik, 1980
Professor of Information and Decision Sciences
A.B., B.S. 1973, M.S. 1979, Ph.D. 1980, University of California, Riverside.
- Mary Jo Skillings, 1990
Professor of Education; Chair, Department of Language, Literacy and Culture
B.S. 1978, Ohio University; M.A. 1984, Ph.D. 1990, Ohio State University.
- John Skillman, 1998
Assistant Professor of Biology
B.S. 1988, Oregon State University; Ph.D. 1994, Duke University.
- Deborah Smith, 2001
Lecturer in Mathematics
B.A. 1982, B.A. 1986, California State University, San Bernardino; M.S. 1992, University of California, Riverside.
- Alan L. Smith, 2000
Professor of Geological Sciences; Chair, Department of Geological Sciences
B.Sc. 1963, University of London (Kings College); Ph.D. 1968, University of California, Berkeley.
- Douglas C. Smith, 1995
Associate Professor of Chemistry
B.A. 1988, Wittenburg University, Ohio; Ph.D. 1994, Purdue University.
- Johanna L. Smith, 2000
Assistant Professor of Theatre Arts
B.A. 1994, Miami University, Ohio; M.F.A. 1998, Arizona State University.
- Wendy Smith, 1989
Associate Professor of English
B.A. 1973, M.A. 1978, San Francisco State University; Ph.D. 1990, University of California, Los Angeles.
- Stacey Sowards, 2001
Assistant Professor of Communication Studies
B.A. 1995, The Colorado College; M.A. 1997, University of Texas, El Paso; Ph.D. 2001, University of Kansas.
- Catherine E. Spencer, 2000
Lecturer in Education
B.A. 1983, California State University, Fullerton; M.A. 1998, California State University, San Bernardino.
- Sue A. Spitzer, 1999
Assistant Professor of Education
B.A. 1971, University of California, Irvine; M.A. 1977, University of California, Los Angeles; M.A. 1991, Ph.D. 1994, University of California, Riverside.
- Geraldine B. Stahly, 1988
Professor of Psychology
A.B. 1972, California State University, Long Beach; M.A. 1976, Ph.D. 1983, University of California, Riverside.
- Brett J. Stanley, 1994
Associate Professor of Chemistry
B.S. 1987, University of Pittsburgh; Ph.D. 1992, Utah State University.
- Charles S. Stanton, 1987
Professor of Mathematics
A.B. 1977, University of California, Berkeley; M.A. 1980, Ph.D. 1982, University of Wisconsin, Madison.
- Joel A. Stein, 1991
Professor of Mathematics
B.S. 1966, M.S. 1968, Rensselaer Polytechnic Institute; Ph.D. 1980, Harvard University.
- Robert G. Stein, 1967
Professor of Mathematics
B.A. 1961, Harvard College; M.A.T. 1962, Wesleyan University; M.A. 1967, Dartmouth College; Ph.D. 1975, University of Texas.
- Walter T. Stewart, Jr., 1984
Professor of Information and Decision Sciences; Chair, Department of Information and Decision Sciences
B.A. 1976, M.A. 1979, Brigham Young University; Ph.D. 1984, Ohio University.
- Belinda E. Stillwell, 2000
Assistant Professor of Kinesiology
B.A. 1982, California State University, Long Beach; M.A. 1993, California State University, Dominguez Hills; Ph.D. 1998, Arizona State University.
- Deborah E. Stine, 1999
Assistant Professor of Education
B.A. 1969, Lake Erie College; M.Ed. Lynchburg College; M.A. 1993, California State University, San Bernardino; Ph.D. 1999, University of California, Riverside.
- Darleen K. Stoner, 1984
Professor of Education
B.A. 1967, Washington State University; M.S. 1972, California State Polytechnic University, Pomona; Ph.D. 1981, Claremont Graduate University.
- Alayne Sullivan, 2000
Associate Professor of Education
B.A. 1979, B.Ed. 1980, M.Ed. 1983, Mount Saint Vincent University, Halifax, Nova Scotia; Ph.D. 1990, McGill University, Montreal, Quebec, Canada.
- Stuart S. Sumida, 1992
Professor of Biology
B.A. 1981, M.A. 1983, Ph.D. 1987, University of California, Los Angeles.
- Leonie L. Sutherland, 2000
Assistant Professor of Nursing
B.S.N. 1988, University of Phoenix; M.S.N. 1995, Azusa Pacific University.
- Stanley L. Swartz, 1989
Professor of Education
A.B. 1970, Findlay College; M.Ed. 1972, Ph.D. 1976, Bowling Green State University.

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Dwight P. Sweeney, 1990

Professor of Education; Associate Dean, College of Education
A.B. 1970, University of Notre Dame; M.A. 1971, Ph.D. 1981, University of Michigan.

Colleen R. Talbot, 1997

Assistant Professor of Biology
B.S. 1985, M.S. 1988, California State Polytechnic University, Pomona; Ph.D. 1993, University of Chicago.

John Tate, 1989

Associate Professor of Chemistry
B.Sc. 1979, Ph.D. 1982, University of Sheffield, England.

Mary Texeira, 1994

Associate Professor of Sociology
B.A. 1989, M.A. 1992, Ph.D. 1994, University of California, Riverside.

Edward C. Teyber, 1979

Professor of Psychology
B.A. 1972, University of California, Los Angeles; M.A. 1974, Ph.D. 1977, Michigan State University.

Jeffrey M. Thompson, 1988

Professor of Biology; Chair, Department of Biology
B.S. 1972, Michigan State University; Ph.D. 1976, Florida State University.

Gail L. Thompson, 1999

Assistant Professor of Education
B.A. 1980, University of Southern California; M.A. 1986, Ph.D. 1998, Claremont Graduate University.

Gerald R. Thrush, 1996

Associate Professor of Biology
B.S. 1985, Saginaw Valley State University; Ph.D. 1990, Wayne State University.

Dorothy Thurman, 1999

Lecturer in Nursing
B.S.N. 1975, University of Florida; M.N. 1979, Emory University.

Stephen G. Tibbetts, 2000

Assistant Professor of Criminal Justice
B.A. 1991, University of Florida; M.A. 1994, Ph.D. 1997, University of Maryland.

Thomas C. Timmreck, 1985

Professor of Health Science and Human Ecology
B.S. 1971, Brigham Young University; M.Ed. 1972, Oregon State University; M.A. 1981, Northern Arizona University; Ph.D. 1976, University of Utah.

Javier Torner, 1985

Professor of Physics
B.S. 1978, J.P.M. Mexico; M.S. 1972, Ph.D. 1985, Illinois Institute of Technology.

Nena M. Torrez, 1996

Associate Professor of Education
A.B. 1972, University of California, Berkeley; J.D. 1975, California Western School of Law; M.A. 1980, California State University, Dominguez Hills; Ph.D. 1988, Claremont College.

Mayo C. Toruño, 1983

Professor of Economics
B.A. 1974, B.A. 1975, M.A. 1976, California State University, Los Angeles; M.A. 1979, Ph.D. 1983, University of California, Riverside.

Rolland Trapp, 1994

Associate Professor of Mathematics
B.A. 1984, Knox College; M.A. 1985, Ph.D. 1990, Columbia University.

Michael Trubnick, 1982

Associate Professor of Accounting and Finance
B.S., B.A. 1969, Northern Illinois University; M.B.A. 1980, DePaul University.

David A. Turner, 2001

Assistant Professor of Computer Science
B.S. 1980, Wichita State University; M.S. 1983, University of Massachusetts; Ph.D. 2001, Institute Eurecom, Sophia Antipolis, France.

Joseph Turpin, 1989

Professor of Education
A.B. 1965, M.S. 1967, Indiana University; Ph.D. 1986, University of Wisconsin.

Jodie B. Ullman, 1996

Assistant Professor of Psychology
B.A. 1980, M.A. 1989 University of California, Los Angeles; Ph.D. 1997, University of California, Los Angeles.

Timothy D. Usher, 1990

Professor of Physics
B.S. 1981, Appalachian State University; Ph.D. 1990, University of South Carolina.

Elsa O. Valdez, 1993

Associate Professor of Sociology; Chair, Department of Sociology
B.A. 1986, M.A. 1988, Ph.D. 1991, University of California, Riverside.

Javad Varzandeh, 1987

Professor of Information and Decision Sciences
B.S. 1974, National University, Iran; M.S. 1976, St. Mary's University; Ph.D. 1981, Oklahoma State University.

Mohamad T. Vaziri, 1986

Professor of Accounting and Finance
B.S. 1972, Pennsylvania State University—Pahlavi; M.B.A. 1974, Central State University; Ph.D. 1979, University of Oklahoma.

Belisario Ventura, 1989

Professor of Mathematics
Licen. 1976, University of del Valle, Guatemala; M.A. 1978, Ph.D. 1984, University of California, Berkeley.

Michael Verdi, 2001

Associate Professor of Education
B.S. 1985, University of Notre Dame; M.S. 1986, Northwestern University; Ph.D. 1994, Arizona State University.

J. Paul Vicknair, 1982

Professor of Mathematics; Associate Provost, Academic Personnel
B.S. 1974, M.S. 1978, Ph.D. 1982, Louisiana State University.

Kerstin Voigt, 1994

Associate Professor of Computer Science
Vordiplom 1981, Johann-Wolfgang-Goethe University of Frankfurt, Germany; M.S. 1984, Ph.D. 1994, Rutgers University.

- Laura J. Wallace, 2000
Assistant Professor of Mathematics
B.S. 1991, California State Polytechnic University, Pomona;
M.S. 1992, Ph.D. 1998, University of California, Riverside.
- Al Waner, 1999
Lecturer in Education
B.A. 1956, Pepperdine University; M.A. 1961, Butler University;
Ed.D. 1975, University of Southern California.
- Ching-Hua Wang, 1990
Professor of Biology
M.D. 1978, Beijing Medical College; Ph.D. 1986, Cornell
University.
- Wenxiang Wang, 1994
Associate Professor of Mathematics
B.A. 1982, Tsinghua University, Beijing, China; M.A. 1984,
Ph.D. 1988, Princeton University.
- Sharon L. Ward, 1999
Assistant Professor of Psychology
B.A. 1993, California State University, San Bernardino; Ph.D.
1998, University of California, Riverside.
- James Brian Watts, 1989
Professor of Public Administration
B.A. 1970, University of South Carolina; M.U.A. 1976, Virginia
Poly. Institute and State University; J.D. 1980, Emory
University; Ph.D. 1990, Vanderbilt University.
- Kathryn Z. Weed, 1990
Associate Professor of Education
A.B. 1967, University of Redlands; M.A. 1977, Georgetown
University.
- Michael G. Weiss, 1982
Associate Professor of Psychology
B.A. 1974, University of California, San Diego; M.S. 1978,
University of Southern California; Ph.D. 1983, University of
Florida.
- Kimberlyn Williams, 2001
Assistant Professor of Biology
B.A. 1979, University of California, Davis; Ph.D. 1987, Stanford
University.
- L. Curtis Westbrook, Jr., 1989
Professor of Accounting and Finance
B.S. 1960, M.Acc. 1963, Florida State University; Ph.D. 1992,
The University of Georgia.
- Daniel S. Whitaker, 1985
Professor of Foreign Languages and Literatures
B.A. 1971, Wake Forest University; M.A. 1973, Ph.D. 1985,
University of Wisconsin.
- Dudley J. Wiest, 1993
Professor of Education
B.S. 1979, Concordia College; M.A. 1983, California State
University, Northridge; Ph.D. 1992, Claremont Graduate
University.
- Amanda S. Wilcox-Herzog, 1999
Assistant Professor of Psychology
B.A. 1988, University of California, Irvine; M.Ed. 1992,
Chapman University; M.A. 1995, Ph.D. 1999, Purdue
University.
- Peter D. Williams, 1983
*Professor of Mathematics; Chair, Department of
Mathematics*
B.S. 1979, Ph.D. 1983, University of St. Andrews, Scotland.
- Anna Wilson, 2001
Lecturer in Nursing
B.S.N. 1997, M.S.N. 1999, University of Phoenix.
- Mary Wilson, 1998
Lecturer in Nursing
B.S. 1972, University of Central Arkansas; M.S. 1976,
California State University, Los Angeles.
- Robert D. Wilson, 1990
Professor of Information and Decision Sciences
B.A. 1970, California State University, San Bernardino; M.B.A.
1971, Ph.D. 1975, University of California, Riverside.
- Janet J. Woerner, 1991
Professor of Education
B.A. 1965, University of Kansas; M.A. 1971, Texas A&M;
Ph.D. 1984, University of Kansas.
- Alvin Wolf, 1975
Professor of Education
B.S. 1957, M.A. 1964, University of San Francisco; Ph.D. 1972,
University of California, Berkeley.
- Alvin Wolf, 1975
Professor of Education
B.S. 1957, M.A. 1964, University of San Francisco; Ph.D. 1972,
University of California, Berkeley.
- Aurora Wolfgang, 1992
Associate Professor of Foreign Languages and Literatures
B.A. 1984, University of California, Santa Cruz; M.A. 1986,
Ph.D. 1993, New York University.
- Eugene H. Wong, 1994
Associate Professor of Psychology
B.A. 1986, University of California, Los Angeles; M.A. 1989,
Ph.D. 1991, University of California, Riverside.
- John Worrall, 1999
Assistant Professor of Criminal Justice
B.A. 1994, Central Washington University; M.A. 1995, Ph.D.
1999, Washington State University.
- Joanna S. Worthley, 1988
Professor of Psychology
B.A. 1967, Marietta College; M.S. 1977, Springfield College;
Ph.D. 1987, Claremont Graduate University.
- Shumei Yang
Assistant Professor of Chemistry
B.S. 1982, Zhengzhou University, P.R. China; Ph.D. 1991, Iowa
State University.
- Eri F. Yasuhara, 2000
*Professor of Foreign Languages and Literatures; Dean, College
of Arts and Letters*
B.A. 1970, M.A. 1972, Ph.D. 1982, University of California,
Los Angeles.
- Clifford Young, 1989
*Professor of Public Administration; Executive Assistant to the
President*
B.A. 1969, California Baptist College; M.P.A. 1988, D.P.A.
1988, University of Southern California.

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Laura H. Young, 1995

Associate Professor of Education
B.M. 1975, M.M. 1990, D.M.A. 1994, University of Southern California.

Salaam Y. Yousif, 1991

Professor of English
B.A. 1969, University of Baghdad; M.A. 1980, Oklahoma State University; Ph.D. 1988, University of Iowa.

Tong L. Yu, 1986

Professor of Computer Science
B.S. 1977, Chinese University of Hong Kong; M.S.E. 1982, Ph.D. 1986, Johns Hopkins University.

Kay Zemoudeh, 1990

Professor of Computer Science
B.S. 1981, M.S. 1984, University of Southwestern Louisiana; Ph.D. 1990, University of South Carolina.

Scot J. Zentner, 1993

Associate Professor of Political Science
B.A. 1988, California State University, San Bernardino; M.A. 1991, Ph.D. 1994, Michigan State University.

Xiwen Zhang, 1995

Senior Assistant Librarian, Reference Department
B.A. 1971, Beijing University; M.A. 1987, University of California, Santa Barbara; M.L.S. 1994, University of California, Los Angeles.

Jenny Zorn, 1989

Professor of Geography; Associate Dean, College of Social and Behavioral Sciences
B.A. 1980, Flagler College; M.A. 1982, Ph.D. 1990, Ohio State University.

Emeritus Faculty

Richard T. Ackley

Professor of Political Science, Emeritus, 1990

Ronald E. Barnes, Jr.

Professor of Theatre Arts, Emeritus, 1997

Joe Bas

Professor of Foreign Languages and Literatures, Emeritus, 1992

Anand Bhatia

Assistant Professor of Information and Decision Sciences, Emeritus, 2001

Frank Benson

Professor of Accounting and Finance, Emeritus, 2001

Marty Bloomberg

Librarian, Emeritus, 1994

Aubrey Bonnett

Dean, College of Social and Behavioral Sciences, Emeritus, 1994

Mike Boorum

Professor of Marketing, Emeritus, 2000

Stephen A. Bowles

Professor of Education, Emeritus, 1996

Vivien Bull

Professor of Foreign Languages and Literatures, Emeritus, 1991

Katharine Busch

Associate Professor of Education, Emeritus, 1998

Renate Caine

Professor of Education, Emeritus, 1999

James D. Crum

Dean, College of Natural Sciences, Emeritus, 1992

G. Keith Dolan

Professor of Education, Emeritus, 1991

Robert G. Fisk

Professor of Education, Emeritus, 1973

Jerry Freischlag

Professor of Kinesiology, Emeritus, 2001

Louise Fulton

Professor of Education, Emeritus, 2001

Ernest Garcia

Professor of Education, Emeritus, 1990

Margaret K. Gibbs

Professor of Administration, Emeritus, 1980

Morley Glicken

Professor of Social Work, Emeritus, 2000

Carol F. Goss

Professor of Political Science, Emeritus, 1988

Joseph W. Gray

Associate Professor of Education, Emeritus, 2000

Richard Griffiths

Professor of Education, Emeritus, 2000

John E. Hafstrom

Professor of Mathematics, Emeritus, 1979

Diane F. Halpern

Professor of Psychology, Emeritus, 2001

Dalton Harrington

Professor of Biology, Emeritus, 1994

Robert R. Harrison

Professor of Art, Emeritus, 1972

Charles V. Hartung

Associate Professor of English, Emeritus, 1977

Melvin G. Hawkins

Professor of Social Work, Emeritus, 1992

Beverly L. Hendricks
Dean, College of Arts and Letters, Emeritus, 2000

Mildred M. Henry
Professor of Education, Emeritus, 1983

Philip L. Herold
Associate Professor of Psychology, Emeritus, 1992

H. Arthur Hoverland
Professor of Accounting and Finance, Emeritus, 1992

Dennis Ikenberry
Professor of Computer Science, Emeritus, 2000

Harold A. Jambor
Lecturer in Sociology, Emeritus, 1980

Jorun Johns
Professor of Foreign Languages and Literature, Emeritus, 2000

Dorothy Johnson
Professor of Nursing, Emeritus, 1983

Paul J. Johnson
Professor of Philosophy, Emeritus, 1994

Marshall Jung
Professor of Social Work, Emeritus, 2000

Lee H. Kalbus
Professor of Chemistry, Emeritus, 1994

Rauf A. Khan
Professor of Accounting and Finance, Emeritus, 2001

Brij B. Khare
Professor of Political Science, Emeritus, 1999

Nikolai E. Khokhlov
Professor of Psychology, Emeritus, 1992

Adria Klein
Professor of Education, Emeritus, 2000

Barry Knight
Professor of Accounting and Finance, Emeritus, 2000

Nathan Kravetz
Professor of Education, Emeritus, 1985

Joan Kritzberg
Professor of Management, Emeritus, 2000

Janice Layton
Professor of Nursing, Emeritus, 2000

Robert A. Lee
Professor of English, Emeritus, 1992

Steven M. Levy
Professor of Management, Emeritus, 2000

Eldon Lewis
Professor of Accounting and Finance, Emeritus, 2001

Denis Lichtman
Associate Professor of Mathematics, Emeritus, 2000

Roger Lintault
Professor of Art, Emeritus, 2000

Fook Fah Liu
Professor of Computer Science, Emeritus, 1996

Loralee MacPike
Professor of English, Emeritus, 1997

Jack McDonnell
Professor of Information and Decision Sciences, Emeritus, 2000

Mary L. McGregor
Associate Professor of Nursing, Emeritus, 1992

Sarojam Mankau
Professor of Biology, Emeritus, 1994

Clark Mayo
Professor of English, Emeritus, 2001

Kenton L. Monroe
Professor of Psychology, Emeritus, 1988

Bernhardt L. Mortensen
Associate Professor of Sociology, Emeritus, 1978

Richard Moss
Professor of Economics, Emeritus, 2000

Art Nelson
Librarian, Emeritus, 1991

C. Michael O'Gara
Professor of Physical Education, Emeritus, 1977

Walter Oliver
Professor of Foreign Languages and Literature, Emeritus 2001

Mary G. Patterson
Professor of Nursing, Emeritus, 1985

Clifford T. Paynton
Professor of Sociology, Emeritus, 1992

Ralph Petrucci
Professor of Chemistry, Emeritus, 1990

John M. Pfau
Professor of History, President, Emeritus, 1982

Lee Porter
Dean of Extended Education, Emeritus, 1998

James Rogers
Professor of Management, Emeritus, 2001

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Amanda Sue Rudisill
Professor of Theatre Arts, Emeritus, 1997

Mireille G. Rydell
*Professor of Foreign Languages and Literatures,
Emeritus, 1988*

Arthur Saltzman
Professor of Marketing, Emeritus, 2000

Richard Saylor
Professor of Music, Emeritus, 1991

Gerald Scherba
Professor of Biology, Emeritus, 1991

Robert Senour
Professor of Education, Emeritus, 2000

David Shichor
Professor of Criminal Justice, Emeritus, 1997

Kent Schofield
Professor of History, Emeritus, 2001

William L. Slout
Professor of Theatre Arts, Emeritus, 1992

Robert A. Smith
Professor of History, Emeritus, 1982

Alexander Sokoloff
Professor of Biology, Emeritus, 1990

Gordon E. Stanton
Professor of Education, Emeritus, 1988

Helena Villacres Stanton
Associate Professor of Education, Emeritus, 1990

David Stine
Professor of Education, Emeritus, 2001

Dolores Tanno
Professor of Communication Studies, Emeritus, 2000

James D. Thomas
Professor of Political Science, Emeritus, 1990

Elton N. Thompson
Professor of Education, Emeritus, 1983

Kenneth Thygeron
Professor of Accounting and Finance, Emeritus, 2000

John Tibbals
Librarian, Emeritus, 1999

Arthur J. Townley
Professor of Education, Emeritus, 1999

Steven R. Wagner
Associate Professor of Education, Emeritus, 1997

Carl P. Wagoner
Professor of Criminal Justice, Emeritus, 1997

William Warehall
Professor of Art, Emeritus, 1999

Del LaVerne Watson
Professor of Nursing, Emeritus, 1989

Robert L. West
Professor of Education, Emeritus, 1980

Edward M. White
Professor of English, Emeritus, 1996

Franklin P. Williams III
Professor of Criminal Justice, Emeritus, 2000

Ruth Wilson
Professor of Biology, Emeritus, 2001

Don Woodford
Professor of Art, Emeritus, 2001

Donna M. Ziebarth
Associate Professor of Nursing, Emeritus, 1994

Special Appointments

Mark Almy, 2000
Studio Music Instructor

David Beatty, 1992
Studio Music Instructor
B.M. 1978, California State University, Northridge.

Ben Brown, 2000
Studio Music Instructor

Dennis Dockstader, 1978
Studio Music Instructor
B.A. 1973, California State College, San Bernardino.

Lester Dropkin, 1994
Studio Music Instructor
B.M. 1975, University of Southern California.

Stuart C. Green, 1998
Studio Music Instructor
B.M. 1994, M.M. 1997, University of Redlands.

Herbert Iverson, 1976
Studio Music Instructor
B.M. 1958, M.M. 1961, University of Redlands.

Lynnette Kobernik, 1998
Studio Music Instructor
B.M. 1993, M.M. University of Redlands; D.M.A. 2001,
University of California, Los Angeles.

Audrey Lamprey, 2002
Studio Music Instructor
B.M. 1967, Eastman School of Music; M.M. 1970, Bowling
Green State University.

Richard W. Libertini, 1999
Studio Music Instructor
B.M. 1989, Eastman School of Music.

Gary Long, 1997

Studio Music Instructor

B.M. 1995, University of Oregon; M.M. 1997, Juilliard School of Music.

Maria Maldonado, 2001

Studio Music Instructor

B.M. 1971, Texas Tech University; M.M. 1975, University of Southern California.

David Moody, 1993

Studio Music Instructor

B.A. 1984, California State University, Hayward.

David Scott, 2002

Studio Music Instructor

B.M. 1982, University of Iowa; M.M. 1986, D.M.A. 1998, University of Southern California.

Victoria Shapiro, 1967

Studio Music Instructor

Diploma 1947, B.S. in Viola 1949, Juilliard School of Music; B.M. 1985, M.A. 1993, California State University, Los Angeles.

Jennifer Sparks, 2000

Studio Music Instructor

B.M., University of California, Los Angeles.

Irina Vassileva Trendafilova, 1997

Studio Music Instructor

B.A. 1989, State College, Plovdiv; M.M. 1994, State University, Sofia.

Armen Turadian, 1977

Studio Music Instructor

B.M. 1949, Oberlin College; M.M. 1951, University of Southern California.

Jon Usher, 2000

Studio Music Instructor

B.M., M.M., University of Redlands.

Scott Vance, 1990

Studio Music Instructor

B.M. 1975, M.M. 1981, University of Redlands.

APPENDIX

Availability of Institutional and Financial Assistance Information

The following information concerning student financial assistance may be obtained from Ted Krug, director of financial aid, Room 141, University Hall, phone 880-5221:

1. Student financial assistance program, including state grants, available to students who enroll at California State University, San Bernardino;
2. The procedures and forms by which application for student financial assistance is made;
3. The student eligibility requirements for financial assistance and the criteria used in determining how financial assistance is distributed among eligible applicants who enroll at this university;
4. The rights and responsibilities of students receiving financial assistance including aid provided under federal Title IV student assistance programs.

Information concerning the cost of attending California State University, San Bernardino is available from Ted Krug, director of financial aid, Room 141, University Hall, 880-5221, and includes fees and tuition (where applicable); the estimated costs of books and supplies; estimates of typical student room and board costs and typical commuting costs; and, if requested, additional costs for specific programs.

Information concerning the refund policies of California State University, San Bernardino for the return of unearned tuition and fees or other refundable portions of institutional charges is available from the Office of Student Accounts, Sierra Hall, Room 119, 880-5162.

Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulations is available from Ted Krug, director of financial aid, Room 141, University Hall, 880-5221.

Information regarding special facilities and services available to students with disabilities may be obtained from Nick Erickson, director of Services to Students with Disabilities, Room 235, University Hall, 880-5238.

Information concerning policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from Mr. Dennis Kraus, director of public safety, Physical Plant, Room 120, 880-5165.

Information concerning annual campus security report may be obtained from Mr. Dennis Kraus, director of public safety, Physical Plant, Room 120, 880-5165.

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from Mr. Dennis Kraus, director of public safety, Physical Plant, Room 120, 880-5165.

Information regarding student retention and graduation rates, and if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest may be obtained from Dr. Craig Henderson, Judicial Affairs Officer, Office of the Vice President for Student Affairs, University Hall, Room 231, 880-5185.

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 Dr. Craig Henderson, Judicial Affairs Officer, Office of the Vice President for Student Affairs, University Hall, Room 231, 880-5185.

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 between the ages of 18 and 25 must be registered. 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 need-based student grants funded by the state or a public post-secondary 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>.

Immigration Requirements for Licensure

The Personal Responsibility and Work Opportunity Reconciliation ACT of 1996 (P.L. 104-193), also known as the Welfare Reform Act, included provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information concerning the regulation is available from the International Student Services Office, UH-235, 880-5193.

Determination of Residence for Nonresident Tuition Purposes

The Office of Admissions and Student Recruitment (new students) and the Office of Records, Registration and Evaluations (continuing students) determine 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 eligibility for 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 California Education Code Sections 68000-68084, 68120-68134 and 89705-89707.5, and in Title 5 of the California Code of Regulations, Sections 41900-41916. This information can be viewed on the Internet by accessing the California State University's website at www.calstate.edu.

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. Physical presence in the state combined with steps taken at least one year prior to the residence determination date to show an intent to make California the permanent home is required to establish a California residence for tuition purposes. The steps necessary to show California residency intent will vary from case to case. Evidence demonstrating intent can vary from case to case and may include, but is not limited to, the absence of residential ties to any other state, California voter registration and voting in elections in California; filing California income tax returns; owning 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 registration and driver's license; maintaining active California bank accounts; and maintaining permanent military address and home of record in California.

The student who is in 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, an unmarried minor citizen or noncitizen (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 an unmarried minor who has a parent living cannot be changed by the minor's own act, by the appointment of a legal guardian or by the relinquishment of a parent's right of control.

A married person may establish his or her residence, independent of his or her spouse.

Adult noncitizens establish residence in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States. Unmarried minor noncitizens derive their residence in the same manner as unmarried minor citizens except that both parent and minor must have an immigration status consistent with establishing domicile in the United States.

Exceptions to the general residence requirements are contained in California Education Code of Regulations, sections 68070-68120 and Title 5 of the California Code of Regulations, sections 41900-41916, and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts and students who have attended high school in California and graduated or attained the equivalent. Whether an exception applies to a particular student cannot be determined before the submission on an application for admission and, as necessary, additional supporting documentation. Because neither campus nor Chancellor's Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Nonresident students seeking reclassification are required to complete a supplemental questionnaire including questions concerning their financial dependence, which will be considered along with physical presence and intent in determining reclassification.

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.

Residence determination dates are:

<u>Quarter</u>	<u>Determination Date</u>
Fall	September 20
Winter	January 5
Spring	April 1
Summer	July 1

The residence determination dates for the four stages on CalState TEACH are as follows:

Stage 1	September 20
Stage 2	January 5
Stage 3	June 1
Stage 4	September 20

There are exceptions for nonresident tuition, including:

- 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.
- 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.
- Persons below the age of 19 who have lived with and have 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.
- 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.
- 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.
- 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.
- 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.
- 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 High School. The exception continues so long as continuous attendance is maintained by the student at an institution.
- Certain credentialed, full-time employees of California school districts.
- 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.
- 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.
- 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.
- 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.
- 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, 4th Floor, Long Beach, CA 90802-4275, 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 Office of Admissions and Student Recruitment. 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.

Privacy Rights of Students in Education Records

The federal Family Education Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect student's privacy in their records maintained by the campus. The statute and regulations govern access to student's records maintained by the campus, and the release of such records. The law provides that the campus must give students access to records directly related to the student, and must also provide opportunity for a hearing to challenge such if the student claims they are inaccurate, records on the grounds that they are inaccurate, misleading or otherwise inappropriate. The right to a hearing under this law does not include any right to challenge the appropriateness of a grade determined by the instructor. The law generally requires the institution to receive a student's written consent before releasing personally identifiable data about the student. The institution has adopted a set of policies and procedures governing implementation of the statutes and the regulations on the campus. Copies of these policies and procedures may be obtained at the office of the vice president for student services. Among the types of information included in the campus statement of policies and procedures are: 1) the types of student records maintained and the information they contain; 2) the official responsible maintaining each type of record; 3) the location of access lists indicating persons requesting or receiving information from the record; 4) policies for reviewing and expunging records; 5) student access right to their records; 6) the procedures for challenging the content of student records; 7) the cost to be charged for reproducing copies of records, and 8) the right of the student to file a complaint with the Department of Education. The Department of Education has established an office and review board to investigate complaints and adjudicate violations. The designated office is: Family Policy Compliance 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, electronic mail address, photograph, 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 the student requests not be released. Written objections should be sent to the office of the vice president for student services.

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 have responsibilities in the campus' academic, administrative or service functions and who have reason for using student records associated with their campus or other related academic responsibilities.

Student records may also be disclosed 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; or to other institutions to which the student is transferring).

Career Placement

The Career Development Center may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University system.

Student Discipline Code

Inappropriate conduct by students or 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:

- 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. Knowing possession or use of explosives, dangerous chemicals or deadly weapons on campus property or at a college campus function without prior authorization of the campus president.
- j. Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.
- k. Abusive behavior directed toward, or hazing of, a member of the campus community.
- l. Violation of any order of a campus president, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either

- by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any of the other provisions of this Section.
- m. Soliciting or assisting another to do any act which would subject a student to expulsion, suspension or probation pursuant to this Section.
 - n. For purposes of this Article, the following terms are defined:
 1. The term "member of the campus community" is defined as meaning California State University 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 students for the semester, quarter or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

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 of financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a hearing officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The Chancellor shall report to the Board actions taken under this section. The Code is administered by the judicial affairs officer, 880-5185.

By action of the California State Legislature, Penal Code 502 has been amended by 502.1 (chapter 1076) to include computer-related crimes as a specific violation of the student conduct code. Therefore, the following is added as a violation of student conduct: Per Section 502 and 502.1 of the Penal Code, Chapter 1076, a student may be subject to disciplinary sanctions, as found in 41301-41304 of Title 5, for violation of student conduct for computer-related crimes delineated in the Code.

Drug-Free Schools and Communities Act Amendment of 1989

As required by the Drug-Free Schools and Communities Act Amendments of 1989, university standards of student conduct prohibit the unlawful possession, use, or distribution of illicit drugs and alcohol by students on university property or as part of any university activity.

Notwithstanding other penalties provided by local, state and federal law which prohibit the above activity, under Title 5, *California Code of Regulations*, 41301-41304, university

disciplinary sanctions which may be imposed are expulsion, suspension, probation or lesser sanctions.

Studies on the effects of controlled substances have demonstrated that the use of such substances can lead to addiction, lung damage, heart damage, brain damage, unpredictable behavior, paranoia and other physical and mental disorders.

The Counseling Center can assist students in locating available drug or alcohol counseling, treatment or rehabilitation or re-entry programs. The Counseling Center is located in the Health Center, Room 136, 880-5040.

Eligibility Index

The eligibility index (see below) is the combination of the high school grade-point average and the score on either the American College Test (ACT) or the Scholastic Aptitude Test (SAT). For this purpose, the university computes the grade-point average on the final three years of high school studies, excluding physical education and military science, and uses bonus points for certain honors courses. CSU may offer early, provisional admission based on work completed through the junior year of high school and planned for the senior year.

Students may calculate the index by multiplying their grade-point average by 800 and adding their total score on the SAT I. Or, if they took the ACT, multiply their grade-point average by 200 and add ten times the composite score from the ACT. California high school graduates (or legal residents of California for tuition purposes) need a minimum index of 2900 using the SAT I or 694 using the ACT; the table below shows the combinations of test scores and averages required. Students who neither graduated from a California high school nor are a resident of California for tuition purposes need a minimum index of 3502 (SAT I) or 842 or above (ACT).

Applicants with grade-point averages above 3.00 (3.61 for nonresidents) are exempt from the test requirements.

Campus Safety Report

California State University, San Bernardino publishes a "Campus Safety Report" each September 1st in compliance

with federal law. The report contains information on campus safety services, policies, procedures and recent crime statistics. This report is available through the university main web page index listing "Campus Safety Report" and copies may be obtained from the Department of Public Safety.

New Federal Financial Aid Regulations Pertaining to Students Who Have Been Convicted of Possession of a Controlled Substance, or Who Have Been Convicted of the Sale of a Controlled Substance

Effective July 1, 2000 the Secretary of Education proposes to add Sec. 668.40 (a) and (b) to implement statutory provisions to deny financial aid to students convicted of sale or possession of a controlled substance. The periods of ineligibility, which begin as of the date of conviction, are:

- If convicted for the first time of an offense involving the possession of a controlled substance, the ineligibility period is one year.
- If convicted for the second time of an offense involving the possession of a controlled substance, the ineligibility period is for two years.
- If convicted for the third time of an offense involving the possession of a controlled substance, the ineligibility period is indefinite.
- If convicted for the first time of an offense involving the sale of a controlled substance, the ineligibility period is for one year.
- If convicted for the second time of an offense involving the sale of a controlled substance, the ineligibility period is indefinite.

Note that for purposes of determining a student's eligibility for Title IV assistance, a conviction means a conviction that

Eligibility Index Table for California High School Graduates or Residents of California

<u>GPA</u>	<u>ACT Score</u>	<u>SAT Score</u>	<u>GPA</u>	<u>ACT Score</u>	<u>SAT Score</u>	<u>GPA</u>	<u>ACT Score</u>	<u>SAT Score</u>	<u>GPA</u>	<u>ACT Score</u>	<u>SAT Score</u>	<u>GPA</u>	<u>ACT Score</u>	<u>SAT Score</u>
3.00 and above														
qualifies with any score														
2.99	10	510	2.79	14	670	2.58	18	840	2.37	22	1010	2.16	27	1180
2.99	10	510	2.78	14	680	2.57	18	850	2.36	23	1020	2.15	27	1180
2.98	10	520	2.77	14	690	2.56	19	860	2.35	23	1020	2.14	27	1190
2.97	10	530	2.76	15	700	2.55	19	860	2.34	23	1030	2.13	27	1200
2.96	11	540	2.75	15	700	2.54	19	870	2.33	23	1040	2.12	27	1210
2.95	11	540	2.74	15	710	2.53	19	880	2.32	23	1050	2.11	28	1220
2.94	11	550	2.73	15	720	2.52	19	890	2.31	24	1060	2.10	28	1220
2.93	11	560	2.72	15	730	2.51	20	900	2.30	24	1060	2.09	28	1230
2.92	11	570	2.71	16	740	2.50	20	900	2.29	24	1070	2.08	28	1240
2.91	12	580	2.70	16	740	2.49	20	910	2.28	24	1080	2.07	28	1250
2.90	12	580	2.69	16	750	2.48	20	920	2.27	24	1090	2.06	29	1260
2.89	12	590	2.68	16	760	2.47	20	930	2.26	25	1100	2.05	29	1260
2.88	12	600	2.67	16	770	2.46	21	940	2.25	25	1100	2.04	29	1270
2.87	12	610	2.66	17	780	2.45	21	940	2.24	25	1110	2.03	29	1280
2.86	13	620	2.65	s17	780	2.44	21	950	2.23	25	1120	2.02	29	1290
2.85	13	620	2.64	17	790	2.43	21	960	2.22	25	1130	2.01	30	1300
2.84	13	630	2.63	17	800	2.42	21	970	2.21	26	1140	2.00	30	1300
2.83	13	640	2.62	17	810	2.41	22	980	2.20	26	1140			
2.82	13	650	2.61	18	820	2.40	22	980	2.19	26	1150			
2.81	14	660	2.60	18	820	2.39	22	990	2.18	26	1160			
2.80	14	660	2.59	18	830	2.38	22	1000	2.17	26	1170			

Below 2.00 does not qualify for regular admission.

is on a student's record at the time the student's eligibility for financial aid is being determined. Therefore, a conviction that was reversed, set aside, or removed from the student's record is not relevant.

The Higher Education Act further provides that a student can regain eligibility, regardless of the number or type of convictions on the student's record, by successfully completing a drug rehabilitation program that complies with criteria established by the Secretary of Education and that includes two unannounced drug tests.

Copies of the complete regulation and further information are available at the financial aid office in University Hall, Room 150.

Student Right-to-Know and Campus Security Act

The Student Right-to-Know and Campus Security Act, as amended by the Higher Education Technical amendments of 1991, Public Law 102-26 requires the university to provide the following information. The university produces and makes available graduation rates for all students and for those who receive athletically-related financial aid, and produces and makes available information on campus crime and security. Information on graduation rates for all students is available at the Office of Records, Registration and Evaluations, information about graduation rates for those who receive athletically-related financial aid is available at the Office of the Vice President, University Advancement, and information about crime rates and security is available at Public Safety. Information on all three areas may be available from the reference desk at the Pfau Library.

Summarizing the graduation rates for all students, by fall 2000, or six years after entering the CSU, 38 percent of the fall 1994 entering freshman class had earned the bachelor's degree at the CSU campus of first attendance. The Cal State, San Bernardino entering freshman class matches the entire CSU system average in graduation rates. Further, about 3 or 4 percent of the freshman class earns a degree elsewhere in the CSU after transferring.

Historical trends indicate the CSU systemwide graduation rate is expected eventually to reach about 61% percent. A graduation rate of over 60 percent is on a par with the best of peer state universities and colleges.

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 systemwide cost of education is defined as total support expenditures (State University Fee revenue and General Fund support appropriations) divided by the number of full-time equivalent students. The total 2001-2002 state General Fund appropriation to the CSU (not including capital outlay funding in the amount of \$225,000,000) is \$2,607,425,000 and campus budgeted State University Fee Revenue is \$509,417,000 for a total of \$3,116,842,000. The \$3,116,842,000 total cost of education for CSU must provide support for a projected 305,854 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 2001-02 systemwide cost of education per full-time equivalent student is \$10,191. Of this amount, the average student fee support per FTE is \$1,876. (The State University fee and campus fees that must be paid to apply to, enroll in, or attend the university are included in the average costs paid by the students. Individual students may pay less or more than \$1,876, depending on the campus and whether student is attending part-time/full-time, or is a resident/nonresident student. Also, other campus fees may be charged that are not required of all students, which include user and penalty/deposit fee types.)

<u>2000-2001</u>	Average Cost per		
	<u>Amount</u>	<u>FTE Student</u>	<u>Percentage</u>
Total cost of education*	\$3,116,842,000	\$10,191	100.0%
• State appropriation**	2,252,941,000	8,063	84%
• Student fee support	509,417,000	1,666	16%

Refund of Fees Including Nonresident Tuition

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in §41802 of Title 5, *California Code of Regulations*. For purposes of the refund policy, mandatory fees are defined as those systemwide fees and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University. Refunds of fees and tuition charges for self-support programs at the California State University (courses offered through extended education) are governed by a separate policy established by the University.

In order to receive a full refund of mandatory fees, including nonresident tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for cancelling registration are available in the *Schedule of Classes*.

For state-supported semesters, quarters and non-standard terms or courses of four weeks or more, a student who withdraws during the term in accordance with the university's established procedures will receive a refund of mandatory fees, including nonresident tuition, based on the portion of the term during which the student was enrolled. No student withdrawing after the 60 percent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition. Students will also receive a refund of mandatory fees, including nonresident tuition under the following circumstances:

- The tuition and mandatory fees were assessed or collected in error;
- The course for which the tuition and mandatory fees were assessed or collected was cancelled by the university;
- The university makes a delayed decision that the student was not eligible to enroll in the term for which the mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student;
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the university for a refund demonstrating

exceptional circumstances and the chief financial officer of the university or designee may authorize a refund if he or she determines that the fees and tuition were not earned by the university.

Information concerning any aspect of the refund of fees may be obtained from the Accounting Office.

Changes in Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the chancellor or designee of the California State University, or by the president or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information that pertains to students, 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, 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.

Recommendations on Attire for Students in On-campus Simulation or Clinical Supervision Classes

Departments or programs may provide recommendations for professional attire in on-campus simulation or clinical supervision classes provided:

1. Such standards for attire are established by the Professional Association affiliated with that department or program;
2. Recommendations are communicated to students at the time of admission to the professional program and are further delineated in the course syllabi for the simulation or clinical supervision courses;
3. All such recommendations for attire in demonstration or clinical supervision courses on campus provide reasonable accommodations for traditional ethnic, cultural or religious attire.

Procedure for Establishment or Abolishment of 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 favorable vote the establishment of the fee (Education Code, Section 89304). The *student body fee* was established at California State University, San Bernardino by student referendum. 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 percent 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 including, but not limited to, 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 campus-based mandatory fees requires consideration by the campus fee advisory committee and a student referendum. 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 also 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.

Nondiscrimination Policy

The California State University does not discriminate on the basis of race, color, national origin, sex, physical disability or sexual orientation in the educational programs or activities it conducts.

Race, Color, National Origin and Disability

The California State University complies with the requirements of Title VII of the Civil Rights Act of 1964 as amended by the American with Disabilities Act and the regulations adopted thereunder. No person shall, on the basis of race, color, national origin or disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in any program of the California State University. 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. Section 504 of the Rehabilitation Act of 1973, as amended, and the regulations adopted thereunder and the Americans

with Disabilities Act prohibit such discrimination. Dr. Frank Rincón, vice president for student services has been designated to coordinate the efforts of compliance with these Acts and their implementing regulations. Inquiries concerning compliance may be addressed to this person at this person at 5500 University Parkway, San Bernardino, CA 92407, (909) 880-5000.

Sex

The California State University does not discriminate on the basis of sex in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972, as amended, and the administrative regulations adopted thereunder prohibit discrimination on the basis of sex in education programs and activities operated by California State University, San Bernardino. Such programs and activities include admission of students and employment. Inquiries concerning the application of Title IX to programs and activities of California State University, San Bernardino may be referred to Dale T. West, personnel officer, the campus officer assigned the administrative responsibility of reviewing such matters or to the Regional Director of the Office of Civil Rights, Region IX, 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.

Sexual Harassment

It is the policy of California State University, San Bernardino to maintain a working and learning environment free from sexual harassment of its students, employees and those who apply for student and employee status. Questions regarding sexual harassment should be addressed to Dale T. West, personnel officer.

Age, Marital Status, Religion or Sexual Orientation

California State University, San Bernardino, and by CSU Board of Trustees policy, does not discriminate on the basis of age, marital status, religion or sexual orientation in employment, educational programs or activities it conducts, except as preempted by federal regulations.

California Articulation Number (CAN)

The California Articulation Number (CAN) System identifies many transferable, lower division, major preparation courses commonly taught on California college and university campuses.

The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus. For example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on every other participating campus that has also qualified CAN ECON 2. Each campus retains its own numbering system, but adds the CAN designation parenthetically in its publications.

Check with counseling offices, departmental offices, or articulation officers for current listings of CAN qualified courses. A "CAN CATALOG" listing campuses and courses is available on the Internet at <http://www.cansystem.org>.

<u>CAN NUMBER</u>	<u>CSU, SAN BERNARDINO COURSE</u>
CAN AJ 2	CJUS 101
CAN AJ 4	CJUS 102
CAN ANTH 2	ANTH 100
CAN ANTH 4	ANTH 102
CAN ART 8	ART 215
CAN ART 14	ART 211
CAN ART 16	ART 213
CAN ART 18	ART 218
CAN ART 22	ART 212
CAN ART 24	ART 216
CAN BIOL 14	BIOL 220
CAN BIOL SEQ A	BIOL 200 + 201 + 202
CAN BIOL SEQ B	BIOL 223 + 224
CAN BUS 8	MGMT 230
CAN CHEM 12	CHEM 245
CAN CHEM SEQ A	CHEM 215 + 216
CAN CSCI 4	CSCI 240
CAN CSCI 6	CSCI 125
CAN CSCI 22	CSCI 201
CAN CSCI 24	CSCI 202
CAN CSCI 26	MATH 272
CAN DRAM 6	TA 253
CAN DRAM 8	TA 251
CAN DRAM 10	TA 232
CAN DRAM 12	TA 239
CAN DRAM 14	TA 131
CAN DRAM 18	TA 260
CAN DRAM 20	TA 245
CAN DRAM 22	TA 252
CAN ECON 2	ECON 202
CAN ECON 4	ECON 200
CAN ENGL 2	ENG 101
CAN ENGL SEQ B	ENG 230 + 231 + 232
CAN FCS 8	HSCI 245
CAN GEOG 4	GEOG 100
CAN GEOG 6	GEOG 103
CAN GEOL 2	GEOL 101
CAN GEOL 4	GEOL 250
CAN GOVT 2	PSCI 203
CAN HIST 8	HIST 200
CAN HIST 10	HIST 201
CAN HIST SEQ B	HIST 200 + 201
CAN HIST SEQ C	HIST 140 + 142 + 144
CAN JOUR 2	COMM 240
CAN MATH 2	MATH 115
CAN MATH 10	MATH 110
CAN MATH 16	MATH 120
CAN MATH 24	MATH 270
CAN MATH SEQ B	MATH 211 + 212 + 213
CAN PHIL 2	PHIL 190
CAN PHYS 8	PHYS 221
CAN PHYS 12	PHYS 222
CAN PSY 2	PSYC 100
CAN PSY 6	PSYC 210
CAN SOC 2	SOC 100
CAN SPCH 4	COMM 120
CAN SPCH 6	COMM 180
CAN SPCH 8	COMM 225
CAN SPCH 10	COMM 221

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