Welcome to Cal State San Bernardino. I know you'll like our university once you learn about our programs and all that we have to offer. To begin, our campus, built on nearly 450 acres, lies in the shadow of the beautiful San Bernardino Mountains. In the last few years, we've added a new 480-bed apartment-style student housing complex, a Social and Behavioral Sciences building, and a Chemical Sciences building. We've also doubled the size of our student union and added a new student recreation and fitness center, which contains everything from exercise equipment to a climbing wall.

While we continue to expand our services and facilities, you'll still find small classes - held during the day and evening when you need them - and an exceptional and diverse faculty dedicated to students.

You'll also discover an environment that encourages personal and intellectual development, through a broad array of organizations, and an equally rich assortment of athletic, cultural, musical, social and theatrical events. To complement all that, you'll find a setting that offers wonderful weather, an extraordinary variety of cultural resources, nearby mountains, beaches and deserts, and a campus rated by students as the most beautiful in the Cal State University System.

With a 50 percent increase in freshman applications in the past two years, CSUSB is increasingly attractive to new students. If you also think Cal State San Bernardino may be the place for you, I invite you to visit our beautiful campus and meet some of our outstanding faculty, staff and students. We would be pleased to provide any additional information you may need. Please visit Cal State San Bernardino's Web site at www.csusb.edu and our exciting new university news site at http://news.csusb.edu.

And if you decide to attend Cal State, I look forward to meeting you!

Albert K. Karnig President

Four-Year Graduation Pledge Program

California State University, San Bernardino is committed to assisting students in reaching their goal of a baccalaureate degree in the shortest time possible. With careful planning a student can graduate in four years. The campus has consistently worked to plan an academic schedule and degree requirements which can be taken by students willing to devote their time and energy to full-time enrollment and study. Many students have found it possible to graduate in four years (12 quarters) of full-time study. We believe well-qualified, hard working students who have met all entrance requirements upon graduation from high school should set as their goal the completion of an undergraduate program without loss of time. We are prepared to help students reach this goal.

Full-time enrollment and involvement in campus life and activities will make the years at Cal State stimulating, engaging and rewarding. A healthy balance of study, work and leisure is critical to academic success. The careful integration of classroom study, out-ofclass discussions with faculty and friends, library investigation, laboratory research, practical application of skills in jobs and field work, and involvement in co-curricular clubs and activities is essential to ensuring that knowledge attained at the university results in fully qualified graduates who can use the critical skills, facts, competencies, and achievements of the college years for active citizenship, productive, useful employment, and life-long learning.

Who is Eligible?

All entering freshmen with a declared major, and concentration if applicable, who are willing to take 45-47 or more units a year, who enter without basic skills deficiencies and meet all entrance requirements for the major are eligible. Students must average 15 units per quarter to reach the minimum of 180 units required for the Bachelor of Arts degree. It should be noted that the Bachelor of Science degree requires 198 units. Completion of the B.S. degree in four years will require a higher unit load in most quarters or enrollment in summer sessions.

What is the University's Pledge?

- Cal State San Bernardino pledges to provide sufficient classes for Four-Year Degree Pledge Program students so they will be able to graduate in four years. All Four-Year Degree Pledge students will receive special advisement and first priority during course registration each quarter. Incoming freshmen and participants who continue to meet the eligibility criteria will receive the highest priority in course registration and must register during the priority time assigned.
- Students will receive a Degree Audit Summary (PAWS) each quarter to allow them to track their progress and to clearly outline remaining units and course requirements. PAWS is available on-line.
- Departments will provide a tentative two-year schedule of course offerings to allow students to plan their enrollments and sequence
 of courses in advance. Every effort will be made to sequence course offerings to allow students to take required courses either day
 or night; however, it should be noted that a full load of 15-16 units normally cannot be taken after 6:00 p.m. and is not advisable if
 students are working more than 20 hours a week.
- If there are course conflicts which prevent students from taking courses on schedule, the appropriate course substitutions, waivers
 or options in the major will be provided by the department chair or for General Education by the Dean of Undergraduate Studies.

What is the Student's Obligation?

- Sign the Four-Year Degree Pledge form prior to the first term of enrollment.
- Take all qualifying exams and diagnostic/placement tests in English (EPT), mathematics (ELM), foreign language placement, music
 auditions, portfolio reviews, etc. before registering for the first term. All deficiencies or remedial course work must be made up before the first term of courses.
- Enroll each quarter at the assigned on-line or TRACS phone registration times. Students enrolling late cannot be assured of getting courses needed.
- Take a minimum of 15-16 units per quarter. Those considering enrolling in the Four-Year Degree Pledge Program should understand that for every unit of credit about 3 hours of instruction and study is required. A program of 15 units will require a minimum of 45 hours of class and study per week. Students with family obligations, long commutes or work schedules requiring more than 20 hours a week of commitment will find 15 units of university study a difficult if not impossible assignment.
- Make satisfactory progress, maintain a "C" average each quarter, and receive grades sufficient to allow registration into the next level
 of required courses.
- Meet each quarter with the assigned advisor, reach agreement regarding an appropriate course of study, and have the class schedule approved by the advisor and/or Advising and Academic Services before registering. At advisement, students and advisors will consider the future term's course offerings as related to graduation requirements. Pre-Psychology and Pre-Nursing students must be accepted into their major according to the department's established schedule.
- Take courses at times (day or evening) when they are offered and/or available and in correct sequence. Note: Students who change their major or concentration or who take a leave of absence will not necessarily be able to graduate in four years.
- Demonstrate accountability by complying with all administrative and academic policies and procedures. Non-compliance will result in cancellation of the pledge agreement. Students should purchase a copy of the *University Bulletin* which contains all degree requirements and policies.

After four academic years of full-time enrollment, if it is determined that required courses were not made available, the student will not be required to pay tuition or fees otherwise required for the student to subsequently register and enroll in courses necessary for graduation. This is the sole remedy for the university's breach of the degree pledge program.

For more information and to determine eligibility to sign the pledge, contact Advising and Academic Services, University Hall, Room 380, (909) 537-5034.

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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 512.) Supplementary bulletins contain additional information about extended learning. The *Class Schedule*, issued prior to each quarter, lists courses to be offered during that term. The 2006-2007 Bulletin, Catalog of Programs, may be purchased at the Coyote Bookstore, California State University, San Bernardino, 5500 University Parkway, San Bernardino, CA 92407-2397. www.coyotebooks.com

Inquiries about admission to the university should be directed to: Director of Admissions and Student Recruitment California State University, San Bernardino 5500 University Parkway San Bernardino, CA 92407-2397 (909) 537-5200 http://www.csusb.edu

BULLETIN

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CALENDAR 2006-2007

FALL TERM 2006

May 1	Last day to file or refile graduation check for March graduation without payment of late fee
May 23-	Fall Quarter 2006 Priority Registration (see
June 14	<i>Class Schedule</i> for Priority Group times)
Sept. 8	Admission Day, university open (observed Dec. 28)
Sept. 13	Beginning of academic year
Sept. 21	Classes begin (Saturday classes begin Sept. 23)
Oct. 4	Last day to add open classes through TRACS
	, , , , , , , , , , , , , , , , , , , ,
Oct. 9	Columbus Day, university open (observed Dec. 29)
Oct. 11	Last day to drop classes without record/Census
Nov. 1	Last day to file or refile graduation check for
	June graduation without payment of late fee
Nov. 1-22	Winter Quarter 2007 Priority Registration (see
	Class Schedule for Priority Group times)
Nov. 10	Veteran's Day, university closed (Friday classes will meet 12/4)
Nov. 23-26	Thanksgiving recess, university closed
	(Library open Nov. 25 and 26)
Dec. 4	Last day of classes (Saturday classes end Dec. 2)
Dec. 5-9	Final examinations
Dec. 9	Commencement
Dec. 12	Grades due; end of term
Dec. 25-	Academic recess, campus closed
Jan. 2	(campus closes at noon on Dec. 22)
00	(campao ciocoo at noon on 2001 22)
WINTER TERM 2007	
Jan. 3	Last day to file or refile graduation check for
	September graduation without payment of

Jan. 3	Last day to file or refile graduation check for September graduation without payment of late fee
Jan. 8	Beginning of winter term
Jan. 8	Classes begin (Saturday classes begin Jan. 6)
Jan. 12	Last day to add open classes through TRACS
Jan. 13-15	Martin Luther King, Jr. birthday, university closed
Jan. 29	Last day to drop classes without record/Census
Feb. 1	Last day to file or refile graduation check for
	December graduation without payment of late fee
Feb. 12	Lincoln's Birthday, campus open (observed Dec. 26)
Feb. 12-	Spring Quarter 2007 Priority Registration (see
Mar. 5	Class Schedule for Priority Group times)
Feb. 22	Washington's Birthday, campus open (observed Dec. 27)
March 19	Last day of classes (Saturday classes end March 17)
March 20-24	Final examinations
March 27	Grades due; end of term
March 26-30	Academic recess

SPRING TERM 2007

March 30 April 2	Ceasar Chavez Holiday, university closed Classes begin (Saturday classes begin March 31)
April 6 April 20	Last day to add open classes through TRACS
April 20 Mov 2.16	Last day to drop classes without record Summer Quarter 2007 Priority Registration (see
May 2-16	
Mov 1	Class Schedule for Priority Group times)
May 1	Last day to file or refile graduation check for March
May 22	graduation without payment of late fee Fall Quarter 2007 Priority Registration (see <i>Class</i>
May 22- June 13	Schedule for Priority Group times)
May 26-28	Memorial Day (university closed)
June 11	Last day of classes (Saturday classes end June 9)
June 12-16	Final examinations
June 15-17	Commencement
June 19	Grades due; end of term
SUMMER TE	
June 20	Classes begin, Sessions I and II
June 21	Last day to add, Session II
June 22-	Campus closed each Friday, Saturday, and Sunday
Aug. 31	
June 26	Last day to add Session I
June 28	Last day to drop without record, Session II/Census
July 4-5	Independence Day Holiday (campus closed)
July 12	Last day to drop classes without record,
	Session I/Census
July 26	Last day of classes, Session II
July 30-31	Final examinations, Session II
July 31	Last day for refund, Session III
Aug. 1	Classes begin, Session III
Aug. 2	Last day to add classes, Session III
Aug. 6	Grades due, Session II
Aug. 9	Last to drop classes without record, Session III/Census
Aug. 30	Last day of classes, Session I
Aug. 30 Sept. 5	Last day of classes, Session III
Sept. 5 Sept. 6-7	Final examinations, Session III
Sept. 0-7 Sept. 11	Grades due, Sessions I and III
Sept. 10	Admission Day, campus open (observed Dec. 28)
•	
FALL TERM	
May 1	Last day to file or refile graduation check for March
a	graduation without payment of late fee
Sept. 12	Beginning of academic year
Sept. 20	Classes begin (Saturday classes begin Sept. 22)
Oct. 8	Columbus Day, campus open (observed Dec. 31)
Oct. 10	Last day to drop classes without record/Census
Nov. 1	Last day to file or refile graduation check for June
Nov. 1-27	graduation without payment of late fee
Nov. 1-27 Nov. 12	Priority registration, Winter 2008
Nov. 22-25	Veteran's Day, campus closed Thanksgiving recess (Library open Nov. 24-25)
Dec. 3	Last day of classes (Saturday classes end Dec. 1)
Dec. 3 Dec. 4-8	Final examinations
Dec. 8	Commencement
Dec. 0 Dec. 11	Grades due; end of term
Dec. 24-	Academic recess, university closed (campus closes
Jan. 1	at noon on Dec. 21)

For further information: http://acs.csusb.edu/sched/

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.

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THE CALIFORNIA STATE UNIVERSITY SYSTEM

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 CSU Channel Islands opened in fall 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 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 1,800 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 2005 totalled 405,000 students, who were taught by some 22,000 faculty. The system awards about half of the bachelor's degrees and a third of the master's degrees granted in California. Nearly 2 million persons have been graduated from CSU campuses since 1960.

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- Ms. Christine Helwick, General Counsel
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QUICK REFERENCE

Who

What

Academic Clubs Department Offices Dale West (Human Resources) **ADA Complaints** (909) 5375138 SH-110 Adult Re-Entry Program Adult ReEntry Center SU-130 75253 Advising (Undeclared major) Academic Services and SAIL (x5921) UH-380/UH-386 75034 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 75024 Appeal of University Regulations Academic Programs AD-101 75024 Athletics Events Athletics Department HP-112 73001 Audio Visual Academic Computing and Media PL-003 75060 Basic Skills (EPT/ELM) Academic Services UH-380 75034 **Clubs and Student Activities** Student Leadership and Development SU-252 75234 Career Workshops Career Development Center UH-329 75250 **Changing Majors** Records, Registration and Evaluation UH-171 75200 Commencement Academic Affairs Office AD-101 77050 Department Chair or College Dean **Complaints Against Faculty** Computer Assisted Instruction Learning Center UH-351 75038 Concurrent Enrollment Records, Registration and Evaluation 75200 UH-171 Coyote ONE CARD Academic Computing PL-003 75060 **Discrimination Complaints** Student Affairs Office UH-183 75185 College of Major Dropping/Adding Courses after Census (Declared) Dropping/Adding Courses after Census (Undeclared) Academic Services UH-380 75034 Academic Computing and Media PL-028 77278 E-Mail Educational Opportunity Program (EOP) EOP Office UH-395 75042 Financial Aid **Financial Aid Office** UH-150 75221 75044 Grade/Academic Grievance Associate Dean, Undergraduate Studies AD-183 Graduate Studies Office Graduate School Information AD-127 75058 Graduation Requirement Check Records, Registration and Evaluation UH-171 75219 Student Leadership and Development SU-252 Greek Life 75234 Student Affairs Office Grievance (non-academic) UH-231 75185 Health Services Health Center HC-135 75241 Immigration Questions International Center UH-235 75197 Leave of Absence Academic Services UH-380 75034 Non-Academic Grievance Vice President, Student Affairs Office UH-231 75185 Off-Campus/On-Line/TV Courses Office of Distributed Learning PL-254 77439 **Open University Enrollment** Extended Learning SH-134 75975 Overload Petition: Undergraduate College Dean/Department Chair Appropriate Graduate Coordinator **Overload Petition: Graduate Psychological Counseling** Counseling Center HC-136 75040 Registration Help Desk Records, Registration and Evaluation UH-171 77671 Retroactive Withdrawal Academic Services UH-380 75034 SAIL (Student Assistance in Learning) SAIL Office UH-386 75921 Scholarships Financial Aid Office UH-150 75034 Sexual Harassment Sexual Harassment Advisor (See Class Schedule) Simultaneous Enrollment Academic Services UH-380 75034 Student Development Programs Associate Vice President for Student Life SU-119 75234 Student Assistants Work Career Development Center UH-329 75250 Study Skills (USTD courses) UH-380/386 Academic Services/SAIL 75838 CASE Office **Teaching Credentials** CH-123 75609 Testing (make-up exams, challenge exams, etc.) Learning Center Testing Services UH-351 75038 Testing, Standardized (GRE, GMAT, EPT/ELM, etc.) Testing Office JB-405 75041 Records, Registration and Evaluation Transcripts UH-171 75268 Records, Registration and Evaluation Transfer of Credits UH-171 75200 Tutoring Learning Center UH-351 75038 Records, Registration and Evaluation Veteran's Certification UH-171 75213 Waiver and Substitutions of G.E. Requirements Academic Services UH-380 75034 Appropriate Graduate Coordinator Waiver of University Regulations (Graduate) Financial Aid Office Work Study UH-150 75226 Writing Assistance Writing Center UH-388 75833

Where

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Channel Islands ent uci.edu	California State Polytechnic University, Pomona 3801 West Temple Avenue Pomona, CA 91768 Dr. J. Michael Ortiz, President (909) 869-7659 www.csupomona.edu
Chico nt uchico.edu	California State University, Sacramento 6000 J Street Sacramento, CA 95819 Dr. Alexander Gonzalez, President (916) 278-6011 www.csus.edu
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California State University, Bakersfield 9001 Stockdale Highway Bakersfield, CA 93311-1099

Dr. Horace Mitchell, President (661) 664-2011 www.csub.edu

California State University, Channel Islands

One University Drive Camarillo, CA 93012 Dr. Richard Rush, President (805) 437-8400 www.csuci.edu

California State University, Chico

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California State University, Dominguez Hills

1000 East Victoria Street Carson, CA 90747-0005 Dr. James E. Lyons Sr., President (310) 243-3300 www.csudh.edu

California State University, East Bay 25800 Carlos Bee Boulevard

Hayward, CA 94542 Dr. Norma Rees, President (510) 885-3000 www.csueastbay.edu

California State University, Fresno

5241 North Maple Avenue Fresno, CA 93740 Dr. John D. Welty, President (559) 278-4240 www.csufresno.edu

California State University, Fullerton 800 N. State College Boulevard Fullerton, CA 92834-9480 Dr. Milton A. Gordon, President (714) 278-2011 www.fullerton.edu

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California State University, Monterey Bay

100 Campus Center Seaside, CA 93955-8001 Dr. Diane Cordero de Noriega, Interim President (831) 582-3330 www.csumb.edu С

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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, Palm Desert 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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Executive Director, Associated Students, Inc.	

The Academic Colleges and Departments of the University

College of Arts and Letters

College of Arts and Letters
DeanEri Yasuha
Associate Dean
Assistant Dean
Chairs:
ArtSant Khals
Communication StudiesJuan Delgad
English
Music
PhilosophyChris Naticch
Theatre Arts
World Languages and Literatures
College of Business and Public Administration
Dean
Associate Dean, Student AffairsElisabeth Rylar
Associate Dean, Administrative Affairs
Chairs:
Accounting and Finance
Information and Decision Sciences
Management
Marketing
Public Administration
College of Education
-
Dean
Associate Dean, Division of Teacher Education
Associate Dean, Administration
Chairs:
Educational Psychology and Counseling
Educational Leadership and Curriculum
Language, Literacy and Culture
Science, Mathematics and Technology Education
college of Natural Sciences
DeanB. Robert Carlso
Associate Dean
Assistant Dean
Chairs:
Biology
Chemistry and BiochemistryDavid Mayna
Computer ScienceArturo Concepcio
Geological Sciences
Health Science and Human EcologyCindy Paxto
Kinesiology
MathematicsPeter Willian
Physics
Assistant Dean of Nursing
College of Social and Behavioral Sciences

Dean	John Heeren Carolyn Aldana
Chairs:	
Anthropology Criminal Justice Economics	Larry Gaines
Geography and Environmental Sciences	Jeffrev Hackel
History	Pedro Santoni
Political Science	Brian Janiskee
Psychology	
Social Work	
Sociology	Randi Miller

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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 44 baccalaureate degree programs, 15 teaching credential fields and various options within 26 master's degree programs. Current enrollment approaches 17,000.

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. 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 quarter 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 activitybased 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 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.

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, California Commission on Teacher Credentialing, and the National Council for Accreditation of Teacher Education (NCATE).

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

Administration (B.A., B.S., M.B.A.)-AACSB International, The Association to Advance Collegiate Schools of Business

Art (B.A.)-National Association of Schools of Art and Design Chemistry (B.S.)-American Chemical Society

Computer Science (B.S.)-Accreditation Board for Engineering and Technology, Computing Accreditation Commission

Health Science, Environmental Health (B.S.)-National Environmental Health Science and Protection Accreditation Council; California Department of Health Services, Environmental Health Specialist Registration Committee

Music (B.A.)-National Association of Schools of Music

Nursing (B.S.)-Commission on Collegiate Nursing Education Nutrition and Food Sciences (B.S.)-American Dietetics

Association (Plan V, Didactic Program in Dietetics)

Public Administration (M.P.A.)-National Association of Schools of Public Affairs and Administration

Rehabilitation Counseling (M.A.)-Council on Rehabilitation Education

Social Work (M.S.W.)-Council on Social Work Education Theatre Arts (B.A.)-National Association of Schools of Theatre

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 proven 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 between one-third and one-half of all classes.

Campus Tours

Office of Admissions and Student Recruitment

(909) 537-5188 tours@csusb.edu

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 an admissions counselor. Arrangements can be made to visit the residence halls.

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Baccalaureate Degree Programs

In the 2006-2007 academic year, the university will offer bachelor's degree programs in the following fields (majors):

College of Arts and Letters	
Art	B.A.
Plan I (Art Education)	
Plan II (Studio Art)	
Plan III (Art History)	
Plan IV (Graphic Design)	
Plan V (Graphic Design and Marketing)	
Communication	B.A.
human communication	
intercultural communication*	
mass communication	
public argumentation and rhetoric	
public relations*	
English*	B.A.
creative writing	
linguistics	
literature	
French*	B.A.
business	
culture studies	
literature	
Music*	B.A.
music education	
performance/composition	
general music studies	
music technology	
musical theatre	
ethnomusicology	
music history	
Philosophy*	B.A.
law/ethics/politics	
philosophy of religion/religious studies	
Spanish*	B.A.
business	
Hispanic literature, language and civilization	
Theatre Arts*	B.A.
acting	
dance	
design/technical	
drama education	
musical theatre	
College of Business and Public Administration	
Administration	B.A./B.S.
accounting*	
accounting information systems	
business economics	
entrepreneurial management	
environmental management	
finance*	
financial planning	
information assurance and security manager	nent
information management*	
international business	
management	
marketing*	
public administration*	
real estate*	
supply chain management*	
transportation and logistics	

College of Education	
Vocational Education	B.S./B.V.E.
College of Natural Sciences	
Biology*	B.A./B.S.
pre-med	
Chemistry*	B.A./B.S.
biochemistry	
ACS certified	
Computer Science*	B.S.
Computer Systems	B.A.
Geology*	B.A./B.S.
environmental geology	D 0
Health Science*	B.S.
ambulatory care/group practice management	•
community health education and promotion	
environmental health science	
health care management*	
school health	РС
Kinesiology* exercise science	B.S.
pedagogy	
pre-physical therapy	
Mathematics*	B.A./B.S.
teachers	D.A./D.3.
Nursing	B.S.
Nursing - R.N.	D.0.
Nutrition and Food Sciences*	B.S.
Physics*	B.A./B.S.
applied physics*	D./ (./ D.O.
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.
public and oral history	
Political Science*	B.A.
Psychology*	B.A.
biological psychology	
Social Sciences	B.A.
Social Work	B.A.
Sociology*	B.A.
social service	
Interdisciplinary Programs	
American Studies	B.A.
Environmental Studies*	B.A.
Human Development	B.A.
child development	
adult development and aging	
life-span development	
Human Services	B.A.
Liberal Studies	B.A.
Integrated Studies	
Spanish studies	
Teaching	D 4
Special Major	B.A.

* program also has a minor available. See Page 53 for a complete list of minors offered

Graduate Degree Programs

In the 2006-2007 academic year, the university will offer master's degree programs in the following fields:

egree programs in the following fields:	
Art	M.A.
Biology	M.S.
Business Administration	M.B.A.
accounting	
entrepreneurship	
executive	
finance	
information assurance and security manage	ement
information management	
management	
marketing management	
supply chain management	
Communication Studies	M.A.
integrated marketing communication	101.7 (.
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Computer Science	M.S.
Counseling and Guidance	M.S.
Criminal Justice	M.A.
Education, with options in:	M.A.
bilingual/cross-cultural	
career and technical education	
correctional and alternative education	
curriculum and instruction	
environmental education	
health education	
holistic and integrative education	
instructional technology	
kinesiology	
language, literacy and culture (primary lang	uage)
reading/language arts	
science education	
special education	
teaching English to speakers of other langu	anes
Educational Administration	M.A.
	M.A. M.S.
Environmental Sciences	
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	
Mathematics	M.A./M.A.T.
	M.A.
National Security Studies	
Nursing	M.S.
school nurses	
Psychology	M.A.
child development	
general-experimental psychology	
Psychology	M.S.
clinical/counseling psychology	
industrial/organizational psychology	
Public Administration	M.P.A.
Public Health	M.P.H.
Rehabilitation Counseling	M.A.
Social Sciences	M.A.
Social Work	M.S.W.
Spanish	M.A.
Theatre Arts	M.A.

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
Accountancy, M.S.	College of Business and Public
	Administration
Child Development, M.A.	College of Social and Behavioral Sciences
Computer Engineering, B.S.	College of Natural Sciences
Kinesiology, M.S.	College of Natural Sciences
Music, M.A.	College of Arts and Letters
Special Education, M.S.	College of Education

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, in mathematics and in English are offered mostly through small classes, while those in other areas typically employ intermediate or large-lecture classes. Upper-division general education courses may be 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	Nondegree-applicable credit.
100-299	Lower-division courses designed primarily
	for freshmen and sophomores. Graduate
	credit is not allowed.
300-599	Upper-division courses of junior and senior
	level; graduate credit may be awarded if
	course is accepted in a specific graduate
	program.
600-699	Courses for postbaccalaureate and graduate
	students only. May not be taken by
	undergraduates.
X1000-X9999	Courses offered through extension only.
	Credit not degree applicable.
IP100-IP699	Courses taken by students in the International
	Programs.
e300-e699	Credit earned in a continuing education
	program for residence credit pursuant to
	an external degree program.

Course Credits and Study Expectations

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.

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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.

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 in PL-208, (909) 537-7765 or 537-5889.

Phi Kappa Phi

Academic Affairs Office, AD-101

(909) 537-5024 pkp.csusb.edu

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. Graduating seniors who are members of PKP have an opportunity to apply for a Fellowship from the national office to be used towards the first year of graduate study. The deadline is February 1st each year.

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

37-500 Cook Street, Palm Desert

(760) 341-2883 pdc.csusb.edu

Residents of the Coachella Valley, Joshua Tree area, and surrounding communities can now complete a B.A., M.A. or teaching credential program without driving long distances. California State University, 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.) Management Administration (B.S.) Accounting

Business Administration for Executives (M.B.A.) Communication (B.A.) Criminal Justice (B.A.) Education (M.A.) Curriculum and Instruction Instructional Technology Reading/Language Arts Special Education Educational Administration (M.A.) English (B.A.) Human Development (B.A.) Liberal Studies (B.A.) Multiple Subject (Credential) Nursing (B.S.) 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.

Daytime, evening and weekend classes are offered. The campus is equipped with state-of-the-art technology, including interactive video conferencing.

Victor Valley College Center

184 Bear Valley Road, Victorville

http://odl.csusb.edu

California State University, San Bernardino'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 Palm Desert 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 College 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 PDC. While CSUSB operates on a guarter system, VVC operates on a semester system.

Distributed Learning

(909) 537-7439 http://odl.csusb.edu

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-theart 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.

For more information on course offerings, professional development for faculty or programs offered by other CSU campuses, contact the ODL.

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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.

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, environmental studies, ethnic studies, finance, French, geography, geology, health science, history, human development, humanities, information management, management, marketing, philosophy, physics, public administration, paralegal studies, political science, psychology, social work, sociology, Spanish, supply chain management, 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 Office of Distributed Learning website at http://odl.csub.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, sciences, and social 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, a Geographic Information Systems (GIS) Lab, Crime Analysis Lab, Anthropology Museum, Infant/toddler Teaching Lab, the Arrowhead Lab for Security Analysis, Literacy Center, Math and Science Teaching Methods Labs, 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 which houses the College of Business and Public Administration, and the Departments of Computer Science, Health Science and Human Ecology and Mathematics.

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, professional development labs, and Distributed Learning labs. In winter, 1995, the new Health/PE/Classroom/Faculty Office Complex opened with a 5,000-seat gymnasium, Coussoulis Arena, and also provides three basketball cross-courts, a dance studio, sports medicine room, a weight training room, an outdoor twentyfive meter competition pool, and additional outdoor facilities. The facility houses Athletics, and the Nursing 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 Facilities Management addition and Administrative Services building were completed in January 2000, providing much needed shops, warehouses, and administrative offices in the Departments of Duplicating, Receiving, Mail Services, Capital Planning, Design and Construction, Facilities Services, Environmental Health and Safety, and Public Safety.

The Social and Behavioral Sciences building opened in Fall 2002 and houses nine academic departments, 23 classrooms with full audio, video and DVD technology, 32 state-of-the-art teaching and research laboratories, offices for 105 faculty and 23 staff, the Criminal Justice Policy Research Center, the Learning Research Institute, the Center for the Study of Hate and Extremism, the Institute for Child Development and Family Relations, the Oral History Program, and the Anthropology Museum.

The Chemical Sciences Building was completed in Winter, 2006. The building contains eight state-of-the-art chemistry teaching labs, a number of student project and graduate research labs, several instrument rooms, a self-instructional computer laboratory, and a number of other instructional support rooms. The Department of Chemistry and Biochemistry are located in this building and the Biology Department also has a graduate research suite of laboratorries in the building. The building houses a Natural Sciences Museum and has four tiered classrooms with the latest "smart classroom" projection technology and a combined seating capacity of 360 students. The laboratories have been equipped with an array of modern teaching and research instrumentation.

In past years, students approved a fee referendum to help fund an expansion and renovation of the Student Union, now named Santos Manuel Student Union thanks to a generous gift to the university by San Manuel Band of Mission Indians. Opening in Spring 2006, the renovated Santos Manuel Student Union provides larger dining areas with more restaurant choices; expanded office space for student clubs and organizations; additional space for the university's Cross Cultural Center, Women's Resource Center and Adult Re-Entry Center; a 200-seat theatre for films, concerts and speakers; meeting rooms; student lounges and a large two-story atrium at the hub of the building. The referendum also funded a new Student Recreation and Fitness Center currently under construction. This new space will house a weight room, gym/athletic court, group fitness room, locker rooms and a 34' rock climbing wall as well as additional administrative office space.

Several other campus enhancements are planned. The renovation of the Biological Sciences building is under construction and the renovation of the Physical Sciences building will follow it. Construction began on a College of Education building and feasibility studies were completed justifying a University Theatre and Performing Arts addition and renovation as well as a Library renovation.

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The first permanent building at the Palm Desert Campus, the Mary Stuart Rogers Gateway Building, was occupied in 2002 and houses classrooms, distributed learning classrooms, bookstore, administrative offices, the Rancho Mirage Student Union, the Helene A. Hixon Information Resource Center, and the Oliphant Auditorium. The Indian Wells Center for Educational Excellence was opened in 2004. It houses teacher education offices in the Annenberg Wing, the Charles and Priscilla Porter History-Social Science Resource Room, and teacher education classrooms. The Indian Wells Theater is a 300-seat facility for instruction as well as for public lectures and performances. Construction began on a third building again funded through the efforts of a public-private partnership. This building responded to the Coachella Valley's critical shortage of health care professionals by providing a state-of-the-art learning-teaching environment dedicated to departments of Nursing and other Health Science programs.

University Library

http://www.lib.csusb.edu

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 750,000 books and bound periodicals. The Library subscribes to more than 1,500 periodicals, newspapers, and other serial publications in paper format and more than 24,000 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.

Academic Computing and Media

http://acm.csusb.edu

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 Mac and Windows platforms that provide Microsoft's Office Suite of software applications, Internet access and assistive technology computers for people with disabilities. For greater support students with disabilities can go to the Assistive Computing Resource Center (ACRC) located in PL-1104. There are professional staff and student consultants for training and assistance in various software applications including email, the Internet, Microsoft's Office Suite software in the ACRC and the Student Tech Support Center labs in PL-1108.

ACM's Media Services area provides audio/video equipment and support for the academic campus and has assisted in the creation of "smart" rooms by adding technology into over 154 rooms on Campus. In addition to the standard overhead projector as an instructional aide, students and faculty are given access to rooms with LCD projectors, computers, DVDs and VCRs, speakers and screens to enhance the learning experience. Media Services also offers micro teaching rooms and video viewing services.

ACM's Professional Development area for faculty and staff provides consultation and training classes, as well as, one-on-one assistance. Web development consultation and assistance is also available to faculty and staff. The Campus Web Master's office monitors ADA compliancy and provides development for campus web sites while the multimedia area creates and consults on 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, the Coyote One Card and the Campus' radio station.

Administrative Computing Services

http://acs.csusb.edu

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 (DARWIN), and the Development System (Cal State Advance) are all managed by the department. Additional applications, such as the voice response system (TRACS), WebReg, WebComm, 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 has implemented the CSU Common Management Systems (CMS) initiative which replaced some administrative systems with People-Soft 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 implementations and upgrades including: overall planning, budgeting, and coordination of project activities with the various campus project teams and affected organizations. The student administration module will go live Fall 2007. Additional Information about the CMS project can be found on the website: http://cms.csusb.edu.

Information Security Office

http://infosec.csusb.edu

The Information Security Office (ISO) coordinates the implementation of information security practices and procedures to ensure the confidentiality, integrity and accessibility of university information Systems. The ISO responsibilities includes all aspects of incident management, coordination of the Computer and Information Systems Incident Response Team (CISIRT), and management of the CSUSB certificate authority. The ISO provides the campus community training in information security and organizes the information security awareness events and activities.

IRT Support and Data Center Services

http://helpweb.csusb.edu

The IRT Support Center & Data Center Services is a central resource for help, information and support on a 24/7 basis providing the University with an effective, primary point of contact for timely and consistent response to computing and information technology and its related inquiries and problems. The center provides efficient

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and effective utilization of resources throughout the IRT division, and is responsible for the system administration and maintenance of the hardware and software environment supporting all administrative computing Systems on-line and batch production, production support, personal computers, campus central servers and system maintenance. These services include software installation, IBM mainframe and Central servers security, configuration, maintenance, file backup and recovery, computer generated media and distribution, on-line/paper base surveys, test surveys, tape processing, optical scanning services, report processing and first, second and third level technical support. For more information and scope of services, see http://helpweb.csusb.edu, or e-mail at: helpdesk@ csusb.edu for the IRT Support Center, and jobreq@csusb.edu for the Data Center Services.

Telecommunications and Network Services

http://tns.csusb.edu/

The Telecommunications group is responsible for supplying and repairing telephone equipment, including the campus telephone switches, managing the campus operators and maintaining the campus voice mail system, and the yearly updating and distribution of the campus telephone directory. During Summer 2005, the campus migrated to a Voice Over Internet Protocol (VOIP) for the new telephone infrastructure. The Telecommunications group can complete work requests from users for specific telecommunications-related activities. The Network Services group is responsible for installing, managing, and maintaining the campus network infrastructure, various campus-wide network applications, and specific network Systems and providing campus-wide functions, such as Email, DNS, DHCP, IP routing, and firewall support to name a few. In addition, the Network Services group can complete work requests from users for specific network-related activities.

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, (909) 537-5733, and Barbara Sirotnik, Department of Information and Decision Sciences, (909) 537-5729. 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 Computer Science, (909) 537-5372 and Kay Zemoudah, Department of Computer Science, (909) 537-5348. 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.

Institute for Child Development and Family Relations. Director Chuck Hoffman, Department of Psychology, (909) 537-7305. Established with four main components: 1) a model laboratory school for both typically and atypically development infants through kindergarten-aged children, 2) a child assessment and development center, 3) a parenting and family relations resources center, and 4) the university center for developmental disabilities which serves children with autism and other pervasive developmental disabilities.

Community-University Partnerships Institute. Interim Director Diane Podolske, (909) 537-5793. Established to advance partnerships with the community that will improve the overall quality of life and health in the University's service area, with five focus areas: culture and the arts, economic transformation, educational quality of the workforce and citizenry, health enhancement, and family and community enrichment.

International Institute. Co-directors: Rosalie Giacchino-Baker, College of Education, (909) 537-5256, and Elsa Ochoa-Fernández, Director, International Student Services, 537-5193. 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.

Learning Research Institute. Director, James Kaufman, Department of Psychology, (909) 537-5513. Established to promote interdisciplinary scholarly focus on teaching and learning and how it may be improved

Water Resources Institute. Interim Director, Susan Lien-Longville, (909) 537-7861. 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 on 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' Acquisition. Director, Mirta Gonzalez, Department of World Languages and Literatures, (909) 537-5847. Promotes the study and dissemination of second languages in the Inland Empire through workshops, translator and interpreter services, curriculum development, conferences and seminars.

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CSUSB Community Counseling Center. Director, Ed Teyber, Department of Psychology, (909) 537-5569. Established as a service/training clinic to provide low-cost or free counseling service to individuals from the community and to provide a training site for graduate students therapists-in-training.

University Center for Developmental Disabilities (UCDD). Director, Dwight Sweeney, Department of Educational Psychology and Counseling, (909) 537-5689. Established as a clinical training program of the College of Education, Special Education program for evaluation, assessment, training and support for autistic children, their parents and siblings.

Center for Global Management. Director, Mo Vaziri, Department of Accounting and Finance, (909) 537-5718. 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. Director, Michael Stull; Executive Co-directors, Pat McInturff and Tapie Rohm, Jr., College of Business and Public Administration, (909) 537-5708. 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 California State University, San Bernardino.

Center for Criminal Justice Research. Director, Dale Sechrest, Department of Criminal Justice (909) 537-5506. Established to provide expertise and research assistance to criminal justice agencies and organizations.

Center for Equity in Education. Co-Directors, Juan Gutierrez and Esteban Diaz, College of Education, (909) 537-5621. 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, (909) 537-5553. 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.

CSUSB Environmental Education Resource Center. Director, Darlene Stoner, Department of Educational Policy and Research, (909) 537-5640. Regional environmental education materials and curriculum resource center.

Center for the Enhancement of Mathematics Education. Director, Davida Fischman, Department of Mathematics, (909) 537-5368. Established to serve as a vehicle for identifying, analyzing, and addressing the needs of mathematics teachers in the service area.

Center of Islamic and Middle East Studies (CIMES). Director, Ralph Salmi, Department of Political Science, (909) 537-5539. Established to create a world-class teaching and research unit devoted to the study of Islamic and Arab cultures that will enhance the curriculum and serve as a model for the CSU and contribute to cross-cultural understanding through teaching, research and community outreach. **Center for Prose Studies.** Director, Bruce Golden, Department of English, (909) 537-5832. 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. Interim Director, Chetan Prakash, Department of Mathematics, (909) 537-5390. 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, (909) 537-5654 or (909) 537-5653. 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, (909) 537-5506. Established to conduct research and serve as a community resource in the areas of hate crimes and extremism.

International Programs

http://www.gateway.calstate. edu/csuienet/

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 15,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher education in 18 countries, the International Programs also offers a wide selection of study locales and learning environments.

Griffith University
Macquarie University
Queensland University of Technology
University of Queensland
University of Western Sydney
Victoria University
The universities of the Province of Quebec including:
Bishop's University
Concordia University
McGill University
Université Laval
Université de Montréal
Université du Quebec system
Pontificia Universidad Católica de Chile (Santiago)
Peking University (Beijing)
Denmark's International Study Program (the international education affiliate of the University of Copenhagen)
Institut des Etudes Françaises pour Étudiants Étrangers, L'Académie d'Aix-Marseille (Aix-en-Provence), Universités de Paris III, IV, V, VI, VII, VIII, IX, X, XI, XII, XI

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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 University of Haifa
Italy	CSU Study Center (Florence) Universitá degli Studi di Firenze La Accademia di Belle Arti 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 Taiwan University (Taipei) National Tsing Hua University
United Kingdom	Bradford University Bristol University Hull University Kingston University 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. Financial aid, with the exception of Federal Work-Study, is available to qualified students.

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. Rueyling Chuang, Communication Studies Department on campus at (909) 537-5780 or rchuang@csusb.edu; or by writing to the California State University International Programs, 401 Golden Shore, Sixth Floor, Long Beach, California 90802-4275.

National Student Exchange Program

Badger House, Room 112,

(909) 537-5239 www.nse.org

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 168 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.

Foundation for CSUSB

(909) 537-5918 http://adminfin.csusb.edu/foundation

The Foundation for CSUSB is a nonprofit, self-financed corporation chartered to support the University in fulfilling its mission. It oversees non-state appropriated revenues derived from administration of grants, research, and external contact, manages investments and endowments, administers scholarships, manages the university's commercial operations including the Coyote Bookstore, Foundation Dining Services, the Children's Center, and provides administration of community-oriented conferences and workshops. A Board of Directors whose membership is drawn from the community, administration, faculty and student body governs the Foundation, and a professional staff manages its operations. During the 2004-05 academic year, the Foundation administered revenues in excess of \$39.3 million and a payroll of 575 full and part-time employees.

Coyote Bookstore

(909) 537-5966 www.coyotebooks.com

The Coyote Bookstore is owned and operated by the Foundation for CSUSB and supports the campus community through its operations by providing a variety of goods and services. In addition to carrying all course-required textbooks, the Coyote Bookstore has hundreds of items for sale, including school and office supplies, backpacks, fashionable CSUSB clothing, gifts, stationery and greeting cards, computers, computer software and supplies, general books, health and beauty aids, and various food, beverage and snack items. A satellite bookstore is operated at the Palm Desert campus to serve students, faculty and staff at that location.

Services available at Coyote Bookstore include year-round book buy-back, special orders in all departments, free gift wrapping for purchases made at Coyote Bookstore, gift certificates and discounted magazine subscriptions. Students, faculty and staff enjoy educational discount prices on computer hardware, peripherals and software.

Coyote Express - Convenience Stores. Three convenient locations make the Coyote Express convenience stores the perfect solution to the busy college lifestyle offering a wide variety of prepackaged sandwiches and salads, cold drinks, coffee, espresso drinks and tempting snacks, perfect for on-the-go dining. Scantrons, bluebooks, class schedules, and course catalogs may also be purchased at the Coyote Express stores. Cash, credit, and Coyote One Card Flex Cash accepted.

The Express stores are located outside of the Social and Behavioral Sciences Building, on the second floor of Jack Brown Hall, and in the Santos Manuel Student Union

Sponsored Programs Administration

(909) 537-5929

The Foundation for California State University, San Bernardino is the designated "Sponsored Programs Administrator" at the campus. Sponsored Programs Administration manages the external funding for research, scholarly activity, faculty enplacement, and other university programs. This funding provides research capabilities for faculty, student employment, tuition or stipends for student in selected program, and funding for campus infrastructure. During the 2004-05 academic year, Sponsored Programs administered revenues in excess of \$20 million.

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Dining Services

(909) 537-5917

Dining services are provided throughout the University by Foundation Dining Services. The Commons Dining Hall, located on the upper floor of the Commons building, is the perfect location to sit down and relax while enjoying a delicious meal. The menu features a variety of options including flavorful Mexican cuisine, a fresh, build-your-own salad bar, zesty Italian dishes, a soup station, grilled-to-order burgers, a variety of grab-n-go items, a made-toorder sandwich station and an array of snacks and drinks. The newly remodeled facility features a wall of windows that offers diners a beautiful view of the mountains for a relaxed, upscale atmosphere.

The Coyote Café is located in the new and exciting Santos Manuel Student Union. This food-court-style eatery features a number of national food chains including KFC, Pizza Hut, Taco Bell and a Starbucks coffee house. The Starbucks coffee house offers seating for over 100 and features a stage for special programs and entertainment. In addition to the national brands, the Coyote Cafe features great burgers, a sandwich station and a pub.

Foundation Dining Services Catering Department offers fullservice catering for all types of on- and off-campus events including weddings, banquets, retirement dinners, special department luncheons, and private parties.

CSU Soda Springs Desert Studies Center

http://biology.fullerton.edu/facilities/dsc/zzyzx.html

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.

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STUDENT LIFE

Housing and Residential Life

Office of Housing and Residential Life (909) 537-7800 www.housing.csusb.edu.

Living on campus is one of the best and easiest ways to become involved at Cal State, San Bernardino! The "Villages at CSUSB" offers on-campus housing for students in three residential environments: Serrano Village, Arrowhead Village, and University Village. Living on campus is a significant part of the CSUSB experience for approximately 1500 students.

Serrano Village is specifically designated for first-year students (freshmen) who are interested in living on campus as part of their overall transition to college life. Each of the eight residence halls is made up of five suite areas with approximately 10 students in each suite sharing a study room and bathroom facility. With double and single rooms available, students can experience the benefits of community living. Each residence hall has a main lounge, common kitchen area, laundry facility, and a sun deck. Students who live in Serrano Village are required to purchase a campus meal plan through Foundation Food Services (909) 537-5916.

Arrowhead Village is an environment available for upper class students who are interested in experiencing a more independent style of living. Arrowhead Village features single occupancy rooms, two bathrooms, and with up to four students per apartment. There are also a limited number of studio apartments. Each apartment includes a furnished living room and bedroom and is equipped with full kitchen facilities. Common area facilities within Arrowhead Village includes study rooms and lounge areas. Each building has an elevator and is accessible for individuals with disabilities. Laundry facilities are available to apartment residents in a separate facility adjacent to the apartments.

University Village is an environment for upper-class students who are interested in living "off campus" but who want to still maintain a strong connection with CSUSB. The environment at University Village is considered "premier living" with private bedrooms for each resident. Most apartments are 4 bedrooms with 2 bathrooms or 2 bedrooms with 1 bathroom units. There are also a limited number of 4 bedroom and 4 bathroom apartments. Each apartment is equipped with a furnished living room and full kitchen, complete with a microwave and dishwasher. Each building has an elevator and is accessible for individuals with disabilities. Laundry facilities are located on each floor.

On-campus residents enjoy the benefits of high-speed internet access (wireless internet connection at Serrano Village) and digital cable service. The Housing and Residential Life staff is available 24 hours a day to assist students with safety and emergency needs. Residents of Serrano and Arrowhead Villages have access to the Village Square which features a large-screen TV, game tables, and lounge space. Outdoor recreation includes barbeque grills, patio seating, volleyball court, basketball court, sun deck, and swimming pool. Residents of University Village have access to the Community Center or "Club House" which features a large screen TV, game room, fitness center, computer room, and study areas. Outdoor recreation includes barbeque grills, patio seating, sun deck, and a swimming pool. All amenities are available for residents to relax and meet with friends.

The Residence Hall Association (RHA) organizes student programs for the residents of the "Villages." Each year, an executive board and the general council offer a variety of opportunities to help make living on campus an exciting and rewarding experience. Movie nights, hall competitions, trips, and study break activities are among the more popular programs sponsored by RHA in the past. The Housing and Residential Life staff includes 30 Resident Assistants who live in the Serrano, Arrowhead, and University Villages. These undergraduate and graduate student staff members have been specifically trained to assist students with personal and academic needs. They are an important part of the overall on-campus housing operations, facilitating the community living experience and enforcing community policies and standards. The Resident Assistant staff is supervised closely by an Area Coordinator of Residential Education or by a Coordinator of Residential Education. These professionals bring extensive skills and experiences to CSUSB. Directly responsible for a specific area, each Coordinator lives on campus and provides immediate support for the residents of the Villages.

Living in any of the Villages is reasonably priced when compared to the rapidly rising costs of commuting and has the advantage of priority registration, assigned parking, and being near academic and classroom buildings, the Pfau Library, and all campus activities. The Housing and Residential Life staff seeks to make financial arrangements as convenient as possible and offers multiple payment options as well as working with financial aid.

The cost to live in the Residence Halls for 2006-07 is projected to be \$450 per person, per month for a double room, \$560 per month for a single room, and \$610 per month for a super single room. Living spaces in Arrowhead Village and University Village is rented on a per-bed basis rather than per-apartment. This allows students to be responsible for just their bed space and not for additional rent should one or more roommates move out before the end of the contract. Rental rates in Arrowhead Village for the 2006-07 academic year are projected to be \$630-660 per month for a private, single occupancy bedroom, \$760 per month for a private studio and \$775 per month for a super single 2 bedroom, 2 bathroom unit. Rental rates in University Village for the 2006-07 academic year are projected to be \$670 per month for a 4 bedroom, 2 bathroom unit; \$750 per month for a 2 bedroom, 1 bathroom unit; and \$765 for a 4 bedroom, 4 bathroom unit. All rates are based on the academic year of September through June; 12-month contracts are available upon request at a discounted rate.

On-campus housing in Serrano Village is guaranteed for firstyear students who apply by the priority deadline of March 2006. Student are encouraged to apply for housing as early as possible to ensure priority in the room selection process.

Associated Students, Inc. (ASI)

ASI's mission is: "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 local area movie chains, Magic Mountain, Knott's Berry Farm, Universal Studios, and Sea World 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 weekly 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 7

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development and success. All regularly matriculated students are member of ASI.

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.

Santos Manuel Student Union

The Santos Manuel Student Union (SMSU), 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 SMSU 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 SMSU serve as a training ground for development of student 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 SMSU includes lounge areas, study lounges, the Coyote Cafe, the Pub, game room and a spacious enclosed 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 Adult Re-Entry Center (ARC) offers support for non-traditional students by providing a variety of programming that address both the academic and social needs of mature students. The ARC provides resources and referrals for services both on campus and in the community as well as providing a place where students of various cultures, orientations and life experiences can gather for support Committed to diversity, the ARC welcomes students from various cultures, orientations and life experiences.

The **Cross Cultural Center (CCC)** focuses on issues of race and ethnicity in its mission to provide a space for students from all racial and ethnic groups. Its programs, workshops, advising and support services combine to create a place for students to explore issues of identity, develop political and social consciousness, facilitate educational goals and create communities that benefit both individual students and the entire campus.

The Lesbian, Gay, Bisexual, Transgender Center (LGBTC) provides a safe, friendly environment for Lesbian, Gay, Bisexual, Transgender, Intersex, Queer, Questioning and Allied students, faculty and staff. The LGBT Center provides programs and services to aid in students' personal, educational, cultural, social, political, and professional growth and to foster a sense of community. The LGBTC is committed to providing services to LGBTIQQ students of all cultures, backgrounds, religions, classes, ethnicities, genders and sexual orientations. In addition the LGBTC provides a meeting place for the Lesbian, Gay, Bisexual, Transgender and Straight Alliance. **Programming Board.** The Student Union Program Board promotes a sense of community at Cal State, San Bernardino through exciting, entertainment-oriented events such as movie showings, bands, karaoke and contests held in the Student Union. Student members develop leadership abilities through training sessions, hands-on event management experience, and team building opportunities. Members of the Board also develop their overall understanding of event management as it related to budgets, marketing, negotiating, creativity, statistical reports and research.

The **Women's Resource Center (WRC)** provides support for students by offering a variety of programming which focus on issues that affect the lives of women, including the annual Activism Conference. The WRC is a place for women to gather, to gain support, and learn tools for social change and also helps students access both on and off campus referrals and resources. Committed to diversity, the WRC welcomes students from various cultures, orientations and life experiences.

Coussoulis Arena

Arena Management Office, HP-121

(909) 537-7360 http://arena.csusb.edu

Coussoulis Arena is the largest indoor facility in the Inland Empire (nearly 5,000 seats), serving Cal State, San Bernardino with quality facilities for the kinesiology classes, Coyote athletic games and practices, student recreational sports programs and university events such as commencement. Additionally, the arena has hosted several special events including:

Sesame Street Live

- Ja Rule
- Sammy Hagar
- Sugar Ray and Everlast
- Dwight Yoakam
- The Harlem Globetrotters
- Howie Mandel
- Dr. Maya Angelou
- The Peking Acrobats
- JoDee Messina
- STYX

Students can gain firsthand knowledge and experience by working part-time in the Arena, learning about all aspects of events management from ticketing, marketing, house operations, sound, lighting and production for concerts.

Intercollegiate Athletics

An intercollegiate athletics program was implemented in the 1984-85 academic year. It is an NCAA, Division II program with basketball, and soccer for both women and men; cross country, softball, water polo, volleyball and tennis for women; and golf and baseball for men.

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

Coyote Orientation

Student Leadership and Development

(909) 537-5234 http://studentleadership.csusb.edu

Coyote Orientation offers dynamic programming for freshmen, parents, transfer students, and re-entry students in order to equip students with the information needed to better manage their transitions to the university. These programs prepare students for academic success, provide knowledge of university resources, encourage involvement in student activities, and help build meaningful relationships. Each Coyote Orientation program is designed to minimize anxiety and to promote positive attitudes about the student's success at the university. In addition, there are leadership opportunities for students to serve as Coyote Orientation Leaders and on the Coyote Orientation Planning Committee.

Student Clubs and Organizations

Student Leadership and Development

(909) 537-5234 http://studentleadership.csusb.edu

CSUSB is home to more than 100 student clubs and organizations that offer a wide range of roles and responsibilities that will accommodate a variety of interests and talents. Students can experiment with different roles that will help them identify their own strengths, weaknesses and preferences. Academic, cultural, religious, service and political organizations are just a few examples of the types of clubs open to students. Membership in any student club or organization is an excellent way to enjoy all the benefits that college life has to offer, and it is one way to make the campus seem more like home. Students can learn how to lead an organization and conduct effective meetings and elections as well as develop communication and mediation skills, and improve their public speaking skills. Clubs and organizations provide ready-made laboratories for students to strengthen their leadership skills and opportunities to test classroom learning in a real-world setting.

Fraternity and Sorority Life

Student Leadership and Development

(909) 537-5234 http://studentleadership.csusb.edu

Greek Life is a great way to get involved on campus, and CSUSB is home to sixteen fraternities and sororities. Each fraternity and sorority contributes to campus life, helps the surrounding community and assists in the development of leadership skills for each of its members. Joining a fraternity or sorority is a lifelong commitment. It is a commitment to sisterhood or brotherhood, to high standards of scholarship and moral conduct, and it is a commitment to yourself to strive for ideals stated by the founders of each organization, most, over 100 years ago. Greek organizations are rich with tradition, and members are often known for their involvement in philanthropic endeavors (also known as community service). In addition to the fraternities and sororities on campus, governing councils and Greek Honor Societies exist to foster relationships between the organizations and to set high scholarship standards.

Leadership Education

Student Leadership and Development (909) 537-5234 http://studentleadership.csusb.edu

The Leadership Academy is a comprehensive certificate pro-

gram that offers skills-building workshops focusing on Individual Development, Organizations and Community, and Diversity. The Academy includes personal assessment of students' leadership potential and a strong focus on personal reflection as a tool for growth and development. Participants work closely with high-caliber faculty, staff, alumni, and community members to complete the certificate which will be awarded at a special recognition program. Leadership Academy participants often describe the Academy as a life-changing experience, increasing their self-esteem and personal effectiveness. Many students successfully land jobs after graduation and credit the Leadership Academy with their success.

Student Recreation and Fitness Center

(909) 537-BFIT http://campusrec.csusb.edu

The new Student Recreation and Fitness Center is proud to offer an exciting array of creative programs in the areas of fitness, wellness, intramural sports, aquatics, outdoor adventure and informal recreation. The new 37,000 square foot complex, located at the east end of campus, houses a 34-foot climbing wall, 8800 square foot fitness room, multi-purpose athletic court, locker rooms and two group activity rooms for aerobics, dance and martial arts classes. The Department of Recreational Sports is dedicated to providing a variety of safe and enjoyable programs and facilities to meet the diverse needs of the CSUSB community by creating a healthy social environment, enriching the quality of life and enhancing the educational experience. All enrolled CSUSB students, staff, faculty and Alumni Association members regardless of age, gender, experience and ability are welcome to use the Center.

Outdoors/Climbing Wall

Participants on outings will learn how to recreate safely in the great outdoors, develop an appreciation and understanding of our natural surroundings, experience personal growth and leadership development, learn teamwork and healthy communication skills, and of course...have fun. Outdoor activities include day hikes, backpacking, skiing, snowboarding, overnight excursions and gear rental. The 34-foot climbing wall allows offerings in beginning and intermediate classes, open climb and special wall events. All equipment is provided and a safety orientation and skills test is offered to our participants.

Intramurals

The Intramural Sports program offers a variety of sport leagues and tournaments including basketball, volleyball, dodgeball, softball, flag football, soccer, golf, and tennis. Whether an experienced athlete or just looking to learn a new sport, participants are provided enjoyable, innovative and safe activities for all skill levels and interests.

Fitness/Wellness/Group Exercise

The Student Recreation and Fitness Center now offers one-onone personal training, beginning weight training classes, nutritional evaluation and fitness assessments as a complement to our state of the art fitness room which includes treadmills, elliptical trainers, bicycles, free weights, plate loaded equipment, weight machines, and functional training equipment. The Group Exercise program offers over 15 classes per week including yoga, hip hop, kickboxing, and martial arts. All programs are designed to enhance the participant experience and facilitate healthy living habits.

Aquatics

The swimming pool is located behind the Physical Education building. Hours vary and can be found on our webpage. Activities include learning to swim, lap swimming, informal water polo, diving boards, aerobics, as well as certification and training.

Informal Recreation

The hours of the Student Recreation and Fitness Center are designed to meet the busy lives with several opportunities from the early opening hour until the late evening closing. When there is not organized play in the gymnasium or group exercise rooms drop-in use is available which allows members to meet up with friends to shoot hoops, practice their hip-hop or toil their martial arts skills. Informal recreation hours will be posted outside of each of the three available rooms.

Career Development Center

http://career.csusb.edu

The Career Development Center offers assistance to students and CSUSB alumni. The office provides a variety of programs and services designed for those seeking employment in business, industry, and government as well as the teaching profession. Career counseling is available by appointment as is placement counseling. Discover is a web-based career exploration guide. Career-related workshops are available to all students and alumni. Presentations for student clubs and organizations as well as faculty who wish class presentations are available upon request throughout the academic year. Requested workshops may be customized to fit the student's needs. Graduate school files may be set up and maintained by the Career Development Center. Additionally, the CDC sponsors two annual Career Fairs, the Education Job Fair provides opportunities for careers in education and the Career Expo provides opportunities for full-time career positions, part-time and temporary employment, and internships in business, industry and government. Other services include on-line campus interviews (spring quarter 7

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Financial Aid

Financial Aid Office

(909) 880-7800 http://finaid.csusb.edu

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 office also administers the State University Grant, and the Educational Opportunity Program Grant.

Work Study. For part-time positions, on or off-campus, for students who were awarded Work Study on their Financial Aid Award Letter, should visit the Financial Aid Office's website at http://finaid.csusb.edu and click on "Student Employment" for a listing of positions available through the Work Study financial aid programs. Students interested in a position funded through the Work Study Program, but Work Study did not appear on their award letter, should contact the Financial Aid Office at (909) 537-7800 or finaid@ csusb.edu.

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. Apply online at http://finaid.csusb.edu. A full description of the university's financial aid programs is available on this website.

Scholarships

Scholarships listed below are awarded to new and continuing students attending CSUSB. The CSUSB Financial Aid Office administers most scholarships. Scholarships administered by the CSUSB Financial Aid Office can be applied for on-line at https://finaid. csusb.edu. Applicants need only to complete the on-line scholarship application once to be considered for all scholarships for which they are eligible. For further information, contact the Financial Aid Office at (909) 537-5220. Department majors and associations administer some scholarships. Applications and further information about them may be obtained by contacting the department or association. Contact information for various departments and organizations has been listed after each scholarship

Scholarships for Incoming Freshmen

Albert K. & Marilyn Karnig Family Scholarship provides a \$500 scholarship to a full-time incoming freshman with a minimum 3.5 GPA. Exceptional artistic or other talent may compensate for the absence of a 3.5 GPA.

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 \$1,200; some awards may automatically be renewed for an additional three years for a total of \$7,200. No special application is required for renewal.

Alumni Association Scholars Program annually awards a \$3,000 scholarship, renewable for up to three years, to a graduating high school senior from the Inland Empire who has attained a 3.75 GPA in high school, has a SAT score of 1,000 or better, has demonstrated outstanding academic achievement as well as leadership in extracurricular school activities, community involvement, employment and/or personal situation.

Aylmer Family Scholarship is awarded to a new or existing Presidents Academic Excellence Scholarship recipient, and must be an undergraduate student.

Bennet A. Meyers Scholarship provides scholarships to incoming freshmen from San Bernardino City Schools with outstanding academic records (3.5 minimum GPA). The amount of each award is approximately \$1,200. Some awards may be renewed for an additional three years. No special application is required for renewal.

Financial Aid Chart

		Determination	Popovmont
Types of aid	Who can help	of eligibility	Repayment requirement
		<u>or engionity</u>	requirement
Scholarships		0.54	
Local scholarships	High school or college counselor	GPA, need	no
University scholarships	University financial aid officer	GPA or GPA and need	d 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 Grar	t 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.

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Business Access and Opportunity Program provides twelve scholarships to freshmen or transfer students who are economically disadvantaged, and have been accepted into the College of Business & Public Administration. Each award is approximately \$1,000. For more information, contact Dr. Mo Vaziri from the College of Business and Public Administration at (909) 537-5718.

California State University Future Scholars Program awards thirty \$1,000 scholarships to California students with disadvantaged backgrounds. The California State Lottery funds this scholarship.

Joseph K. Thomas Scholarship is awarded to an incoming freshman or transfer student, registered as a full-time music major. Recipient must enter CSUSB with a high school or previous college or university cumulative GPA of 3.25 or better, must agree to participate fully in the major performing ensemble most appropriate to his/her applied performance emphasis during the entire academic year for which the scholarship is awarded, with the scholarship application form each candidate must submit a letter summarizing the student's degree of need for scholarship assistance. Candidates who meet the above criteria will demonstrate their music performance proficiency at an audition to be scheduled about four weeks following the application deadline. For more information, contact the Music Department at (909) 537-5859.

Leslie I. Harris Scholarship provides scholarships to incoming freshmen from San Bernardino City Schools with outstanding academic records (3.5 GPA minimum). The amount of each award is approximately \$1,200. Some awards may be renewed for an additional three years. No special application is required for renewal.

President's Academic Excellence Scholarship is awarded to local high school students who graduate within the top 1% of their high school graduating class. Students must be nominated by their high school counselor in order to be considered for this award. The amount of the scholarship is \$5,000 annually, and is renewable for up to three years. In order to maintain continued eligibility each year the recipient must complete a minimum of 36 units each year and maintain a 3.5 GPA.

President Albert K. Karnig Scholarship provides a \$1,000 scholarship to a full-time incoming freshman with a minimum 3.5 GPA. Exceptional artistic or other talent may compensate for the absence of a 3.5 GPA.

Robert C. Byrd Honors Scholarship is a federally funded scholarship of \$1,500 awarded to incoming freshman students. Applications are available from high school principal/counselor. For application information, call the California Student Aid Commission at (916) 526-7590.

Robert & Claire Forsythe Scholarship is awarded to an incoming freshman with a minimum 2.0 GPA, and is enrolled at CSUSB at least 6 quarter units. Preference will be given to Arts and Letters majors. The most recent award was \$300.

Shervin Tehranchi Scholarship provides two \$500 scholarships to full-time incoming freshmen, priority given to students who are active participants in athletics and can demonstrate a strong athletic spirit and talent for sports, and have an overall minimum 3.0 GPA.

West Valley Material Recovery Facility Scholarship provides a \$3,000 scholarship to a student who has attained an overall high school GPA of 3.5, has achieved a combined SAT score of 1,000, preference will be given to graduating seniors from a high school in San Bernardino or Riverside counties. Recipients of this scholarship are eligible for annual renewals up to three years subject to completing a combination of: 1.) Maintaining full-time enrollment, 2.) Maintaining a 3.5 GPA, 3.) Contributing each year a minimum of 30 hours of service to the university or Alumni Association through the Student Alumni Association and, 4.) Maintain a course of study for a major in the fields of business, engineering, or science. For more information, contact the Alumni Affairs Office at (909) 537-5008.

Scholarships for College of Arts & Letters

Anthony and Lois Evans Scholarship is awarded to a student with a minimum GPA of 3.5 who is involved in student performance activities such as music, theatre art or debate/forensics. The annual award is approximately \$450.

Arlene Roberts Memorial Scholarship provides an award to a full-time art major with a minimum 3.0 GPA, and who has financial need. The most recent award was \$750.

California State University, San Bernardino Music Department provides 10 merit scholarships totaling \$10,000 to students who have demonstrated above average proficiency with a musical instrument and have performed with a related university organization. For more information, contact the Music Department at (909) 573-5859.

California State University, San Bernardino Theatre Arts Department provides 10 scholarships totaling \$12,100 to students who have demonstrated excellence in the field of theatre arts. For more information, contact the Arts Department at (909) 537-5876.

Century 21 Lois Lauer Realty Scholarship provides a scholarship to a student enrolled in Liberal Arts, College of Business, or College of Education at any grade level. Applicants must have graduated from high school in either San Bernardino or Redlands, and must have financial need. The most recent award was for \$350.

Dora J. Prieto Scholarship is awarded to a student with a minimum 2.5 GPA and has financial need. Preference will be given to students enrolled in Anthropology as a major, or to a student interested in activities affiliated with a museum.

Dr. Arthur A. Moorefield Scholarship is awarded to a full-time music major at CSUSB, and has a cumulative GPA of 3.3 or better. The most recent award was \$1,200. For more information, contact the Music Department at (909) 537-5859.

Joseph K. Thomas Scholarship is awarded to an incoming freshman or transfer student, registered as a full-time music major. Recipient must enter CSUSB with a high school or previous college or university cumulative GPA of 3.25 or better, must agree to participate fully in the major performing ensemble most appropriate to his/her applied performance emphasis during the entire academic year for which the scholarship is awarded, with the scholarship application form each candidate must submit a letter summarizing the student's degree of need for scholarship assistance. Candidates who meet the above criteria will demonstrate their music performance proficiency at an audition to be scheduled about four weeks following the application deadline. For more information, contact the Music Department at (909) 537-5859.

P. Richard Switzer Scholarship is awarded to CSUSB students who are enrolled in the CSU International Program or another approved academic program in France, who continue as full-time students during their study abroad period. Preference will be given to students with financial need but consideration will be given to others based on merit. To apply, contact the CSUSB Foreign Languages Department at (909) 537-5847.

Taewoong and Soonja Oh Kim Scholarship provides an award to a student majoring in the Art Department in the College of Arts & Letters at CSUSB, has a minimum 3.2 GPA, demonstrates an interest in pursuing a career in the Visual Arts. Financial need is considered but not essential. The most recent award was \$500.

Vivien Bull Scholarship provides a \$400 scholarship to a student with a minimum grade point average of 3.0. The student must have completed at least 24 quarter units at CSUSB, and be majoring in Liberal Studies with the goal of entering the teacher credential program. С

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Scholarships for College of Business and Public Administration

Arrowhead Credit Union Scholarship provides two \$2,500 annual awards to undergraduate or graduate students who are enrolled full time in the College of Business and Public Administration or the College of Social and Behavioral Sciences. A \$500 scholarship is awarded to a student interested in international affairs.

Beverly Smith Scholarship is awarded to a student majoring in finance or ecology, and must have and maintain a 3.0 GPA. The most recent award was \$600.

Business Access and Opportunity Program provides twelve scholarships to freshmen or transfer students who are economically disadvantaged, and have been accepted into the College of Business and Public Administration. Each award is approximately \$1,000. For more information, contact Dr. Mo Vaziri from the College of Business and Public Administration at (909) 537-5718.

California State University, San Bernardino Department of Public Administration selects an annual recipient of the Caroll J. Bellis Scholarship. This \$200 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 which provides a \$100 scholarship 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 requirement for the degree. For more information, contact the Public Administration Department at (909) 537-5758.

Candace Hunter Wiest 2005 Arrowhead Distinguished Executive Officer Scholarship is awarded to a student who is fulltime, must be a sophomore or junior, must be a business major, must have a cumulative GPA of 3.25 and maintain a cumulative 3.25 GPA each quarter(s) in which the award is received.

Century 21 Lois Lauer Realty Scholarship provides a scholarship to a student enrolled in Liberal Arts, College of Business, or College of Education at any grade level. Applicants must have graduated from high school in either San Bernardino or Redlands, and must have financial need. The most recent award was for \$350.

Charles & Shelby Obershaw Scholarship provides scholarships to credential students in the College of Education, and to undergraduate business student. The award is for students that are at least a junior, and have a minimum 3.0 GPA, and financial need. The most recent awards averaged \$1,000 each.

Clifford Young, Ph.D. Scholarship awards a \$1,200 scholarship to a student enrolled in the Masters of Public Administration Program at CSUSB, has a 3.0 GPA, demonstrates an interest to continue education beyond a master's degree, and has special interest in African-American culture.

David Montano Memorial Scholarship provides a \$600 scholarship to a junior or senior student who plans to continue his or her post-secondary education at California State University, San Bernardino.

Doyle A. Varner Memorial Scholarship is awarded to a student who is a participating member of one of the university's intercollegiate athletics programs, and must be enrolled full-time with at least a 3.25 cumulative GPA. Preference shall be given to students majoring in a business or public administration program. The annual award is approximately \$316.

Food Industry Sales Association Scholarship Honoring Jack Brown offers seven \$1,000 scholarships to students majoring in Business or Public Administration.

Hal Hoverland Scholarship provides a \$500 scholarship to an accounting major who has completed Accounting 372 and has a 3.5 minimum GPA.

Jack Scott Scholarship provides a scholarship to a student majoring in accounting with a minimum 3.0 grade point average. For more information, contact Dr. Christine Schalow from the College of Business and Public Administration at (909) 537-5781.

Janice Tillema Memorial Scholarship awards a \$1,000 scholarship to a student with a minimum GPA of 3.0, living within Citizens Business Bank Service area which includes San Gabriel Valley, Inland Empire, and Orange County, must be a full-time undergraduate or graduate student, and must be a business major.

Krieger & Stewart Scholarship Honoring James H. and Lois B. Krieger for their Leadership Roles in California Water Policy provides scholarships to students based on academic achievement, career potential in water policy or water resources, as well as demonstrating outstanding individual character, and has financial need. Students majoring in the CSUSB B.S. in Geology, Environmental Geology concentration, or the masters in public administration, water resource management program, are eligible to apply.

Lois B. Krieger/Western Municipal Water District Scholarship provides awards to students currently enrolled, or plan to enroll, in the Masters of Public Administration (MPA) program with a water resource management specialization in the College of Business and Public Administration, the B.S. in Geology, Environmental Geology concentration, or any future water-related majors developed at CSUSB. Must have a minimum GPA of 3.25, be currently employed in or expressed interest in pursuing a career in water, student must currently reside in Western MWD's 510 square mile service area (service area include: Jurupa, Rubidoux, Riverside, Norco, March Air Reserve Base, Corona, Elsinore, Temecula - west of the 15 freeway, Canyon Lake, Unincorporated areas around Lake Mathews, Unincorporated areas between Corona and Elsinore along the 15 freeway), and has lived in district for at least a year, financial need is considered but not essential.

Nancy E. Smith Scholarship is awarded 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 \$550.

Poma Family Business Scholarship provides two scholarships at \$2,500 each to students majoring in a discipline in the College of Business Administration, demonstrates community service involvement, has financial need, and a minimum GPA of 2.9.

Richard C. Moseley Marketing Scholarship provides \$4,000 in scholarships to full-time students majoring in Marketing who have a minimum 3.2 GPA. For more information, contact the Marketing Department at (909) 537-5749.

Ruben Ayala Scholarship provides scholarships to students enrolled in the B.S. in Geology, Environmental Geology concentration or Masters in Public Administration with a water resource management program. Preference is given to students who have at least a 2.5 GPA.

Spirit of Entrepreneur Scholarship provides awards to CSUSB students in good standing, have a minimum 2.75 GPA, are a major/minor in Entrepreneurship at the undergraduate or MBA level, and must be enrolled in at least eight (8) units each quarter. Preference is given to those students actively involved in entrepreneurial or business club activities on campus (such as the Student Entrepreneurs Association or the CSUSB Student Business Plan Competition). Recipients will be expected to attend, as a VIP guest of Inland Empire Center for Entrepreneurship, the annual Spirit of the Entrepreneur Awards program in November, to be recognized for their achievement. Students must submit a maximum one page, single spaced essay addressing the following: a) Why an education in entrepreneurship is important to them, b) how they will use the education-what business they hope to start and why, c) what entrepreneurial company they admire and why, and d) how the scholarship will make a difference for them. For additional information, contact Mike Skull in the Inland Empire Center for Entrepreneurship Office at (909) 537-5708. A total of nine (9) awards were last given, averaging over \$1,000 each.

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Stratham Homes/College of Business and Public Administration Dean's Ambassador Scholarship is available to students who are transferring to California State University, San Bernardino for the first time starting fall 2005 quarter. For questions regarding this scholarship contact the College of Business and Public Administration at (909) 537-5700. The most recent award was \$3,500.

Scholarships for College of Education

Broc Burns Scholarship is awarded to a CSUSB college junior, senior, or graduate student who is admitted to the credential program that leads to becoming an elementary school teacher. If at the graduate level, the student must have received a bachelor's degree at CSUSB. Preference will be given to a student who lives in the local mountain community, and who maintains a minimum 3.0 GPA. The most recent award was \$500.

California Portland Cement awards \$1,000 annually to a fulltime student in a teaching credential program preparing them to teach math or science at the secondary level.

California Retired Teachers Association provides a \$2,000 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 most recent award was \$2,000

Carol Arline DeVault Scholarship provides a \$500 award to a student enrolled in the master's of environmental education at CSUSB, has a minimum 3.5 GPA. Preference is given to a student who provides volunteer service related to environmental education.

Century 21 Lois Lauer Realty Scholarship provides a scholarship to a student enrolled in Liberal Arts, College of Business, or College of Education at any grade level. Applicants must have graduated from high school in either San Bernardino or Redlands, and must have financial need. The most recent award was for \$350.

Charles and Shelby Obershaw Scholarship provides scholarships to credential students in the College of Education, and to undergraduate business student. The award is for students that are at least a junior, and have a minimum 3.0 GPA, and financial need. The most recent awards averaged \$1,000 each.

Clara McKinney Scholarship provides a \$700 scholarship to a student studying 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.

Community Foundation Serving Riverside and San Bernardino Counties provides over \$30,000 in scholarships to fulltime incoming freshmen, community college transfer students, and continuing CSUSB students. Some of the scholarship monies are awarded to graduate students in special education who intend on pursuing careers as special education teachers and nursing students. All other monies are awarded to students with any major, who have a minimum 3.0 GPA, and have financial need.

Eva Mae Merchant Loan-Scholarship is awarded annually to students in the Education and Nursing Departments. Each award is comprised of a \$1,350 scholarship and a \$1,350 no-interest loan. A total of \$10,800 is awarded.

Margaret Lenz Scholarship provides a \$300 scholarship to a student pursuing a teacher preparation credential.

Marilyn Sauer Scholarship provides a \$1,000 award to a student enrolled in the master's degree program in educational administration at CSUSB, and has a minimum GPA of 3.5.

Martha Pinkney Scholarship provides a \$1,000 award to a student enrolled at CSUSB at the senior or graduate level, in the teacher preparation program; preference will be given to applicants focusing on elementary education, student must be enrolled in at least 6 quarter units at the undergraduate level or 4 quarter units at the graduate level, and must maintain a minimum GPA of 3.0.

Pacific Premier Bank Scholarship Honoring Bing Wong for his Leadership in Scholarship Philanthropy is provided to a student enrolled in the master's program in the College of Education or interested in pursuing a master's degree, demonstrates an interest to continue education beyond a master's degree. Financial need is considered but not essential.

Shelby Obershaw Teacher Education Scholarship provides an award to a student 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 minimum 3.0 grade point average during their junior and senior years. The most recent award was \$1,950.

Scholarships for College of Natural Sciences

Community Foundation Serving Riverside and San Bernardino Counties provides over \$30,000 in scholarships to fulltime incoming freshmen, community college transfer students, and continuing CSUSB students. Some of the scholarship monies are awarded to graduate students in special education who intend on pursuing careers as special education teachers and nursing students. All other monies are awarded to students with any major, who have a minimum 3.0 GPA, and have financial need.

Krieger & Stewart Scholarship Honoring James H. and Lois B. Krieger for their Leadership Roles in California Water Policy provides scholarships to students based on academic achievement, career potential in water policy or water resources, as well as demonstrating outstanding individual character, and has financial need. Students majoring in the CSUSB B.S. in Geology, Environmental Geology concentration, or the masters in public administration, water resource management program, are eligible to apply. The most recent award was \$650.

Leon V. and Marion G. Pittman Scholarship provides a scholarship to a full-time sophomore student majoring in biology, chemistry, mathematics, or physics. The emphasis in selection is on the student's academic record during their freshman year of studies at CSUSB. The most recent award was for \$950.

Lois B. Krieger/Metropolitan Water District Scholarship provides a scholarship to a student currently enrolled or enrolling the Masters of Public Administration (MPA) program with a water resource management specialization within the College of Business and Public Administration, the B.S. in Geology, Environmental Geology concentration, or any future water-related majors developed at CSUSB, has a minimum GPA of 3.25, is currently employed in or expressed interest in pursuing a career in water, must currently reside in MWD's 5,200 square mile service area and has lived in the service area for at least one year (Los Angeles, Orange, San Diego, Riverside, San Bernardino, and Ventura Counties). The most recent award was \$1,450.

Lois B. Krieger/Western Municipal Water District Scholarship provides awards to students currently enrolled, or plan to enroll, in the Masters of Public Administration (MPA) program, water resource management in the College of Business and Public Administration, the B.S. in Geology, Environmental Geology concentration, or any future water-related majors developed at CSUSB. Must have a minimum GPA of 3.25, be currently employed in or expressed interest in pursuing a career in water, student must currently reside in Western MWD's 510 square mile service area (service area include: Jurupa, Rubidoux, Riverside, Norco, March Air Reserve Base, Corona, Elsinore, Temecula - west of the 15 freeway, Canyon Lake, Unincorporated areas around Lake Mathews, Unincorporated areas between Corona and Elsinore along the 15 freeway), and has lived in district for at least a year, financial need is considered but not essential. The most recent award was \$1,200.

Mojave Desert Fryxell Scholarship awards scholarships to CSUSB students who are residents of the Mojave Desert District or a graduate of a high school physically located within the district, to undergraduates enrolled in at least 10 units during the quarter in which the award is given and has a minimum 2.5 GPA, to graduate students enrolled as either a part-time or full-time student, and to recipients who can demonstrate a serious interest or commitment to environmental issues.

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Ruben Ayala Scholarship provides scholarships to students enrolled in the Bachelor of Science in Geology, Environmental Geology concentration or Masters in Public Administration, water resource management programs. Preference is given to students who have at least a 2.5 GPA. For more information contact the Financial Aid Office at (909) 537-7399.

Scholarships for College of Social & Behavioral Sciences

Alice Givens Memorial Scholarship is awarded to a re-entry student who has been out of high school at least 10 years, is an undergraduate student majoring in psychology, has financial need, and is enrolled in a minimum of 6 quarter units at CSUSB. The most recent award was \$300.

Arrowhead Credit Union Scholarship provides two \$2,500 annual awards to undergraduate or graduate students who are enrolled full time in the College of Business and Public Administration or the College of Social and Behavioral Sciences. A \$500 scholarship is awarded to a student interested in international affairs.

California State University, San Bernardino Economics Department awards the Janczyk Family Scholarship, the Jim Raymond Scholarship, and the Economics Alumni Scholarship to economics majors or administration majors concentrating in business economics. Each award is approximately \$1,000. For more information, contact Dr. Tom Pierce, Economics Department at (909) 537-5511.

Donald W. Jordan Memorial Scholarship provides a scholarship for an undergraduate student interested in the practice of law. The most recent award was \$1,050.

Dora J. Prieto Scholarship is awarded to a student with a minimum 2.5 GPA and has financial need. Preference will be given to students enrolled in Anthropology as a major, or to a student interested in activities affiliated with a museum.

James Roddy Scholarship is awarded to a student enrolled at CSUSB as a history major or in the College of Business, financial need considered but not essential.

John W. Kennedy Scholarship provides a \$1,000 scholarship to a student majoring in economics or administration with a declared major of business economics, and who has completed a minimum 12 quarter units in economics course work with a 3.0 minimum GPA, and a minimum 2.75 overall GPA. Applicants must have completed 45-quarter units of college course work. For more information, contact Dr. Tom Pierce from the Economics Department at (909) 573-5511.

Joy Renee Kirka Memorial Scholarship provides an award to a student enrolled in the Master's of Clinical Psychology. The most recent award was \$950.

Nancy E. Smith Scholarship is awarded 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 \$550.

Robert and Frances Fullerton Scholarship provides an award to a student pursuing a paralegal or law degree upon graduation. The most recent award was \$1,900.

Verla Watkins Thomas Scholarship is awarded to a student enrolled as a CSUSB first or second year graduate student in the M.S. Clinical/Counseling Psychology Program, and has a minimum 3.0 GPA. Financial need considered but not essential.

Scholarships Available to All Majors

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. For more information, contact the Financial Aid Office at (909) 537-5220.

Albro Scholarship is a \$1,650 scholarship awarded annually to a full-time African-American student with a minimum 3.0 GPA.

Associated Students, Incorporated Scholarship provides 35 scholarships at \$1,000 each to full-time students. Undergraduate students must have a minimum 2.0 GPA, and graduate students must have a minimum 3.0 GPA.

Aylmer Family Scholarship is awarded to a new or existing Presidents Academic Excellence Scholarship recipient, and must be an undergraduate student.

Bill Leesburg Golf Scholarship provides an award to a student who qualifies for the CSUSB Golf team, maintains a GPA of 3.0 or higher, demonstrates community service activity, and meets all relevant eligibility requirements to participate in intercollegiate athletics. Preference is given to a student with financial need. The most recent award was \$350.

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

California State University, San Bernardino Association of Latino Faculty, Staff and Students annually provides approximately \$4,000 in scholarships to students who have evidenced an interest in Hispanic cultures. The Association of Latino Faculty, Staff And Students, administers these scholarships. A separate application is required which is available in the Financial Aid Office. The minimum GPA is 2.5. Students should check with the Financial Aid Office regarding the application deadline.

California State University, San Bernardino Black Faculty and Staff Association awards approximately \$1,000 in scholarships to incoming freshman or continuing students with a minimum GPA of 2.5. Preference is given to students who demonstrate economic need, academic excellence by achieving a GPA of 3.0 or higher, and who contributes to the African American Community.

California State University, San Bernardino Foundation Scholarship provides approximately \$3,700 in scholarships to continuing students with superior academic records and financial need.

Community Foundation Serving Riverside and San Bernardino Counties provides over \$30,000 in scholarships to fulltime incoming freshmen, community college transfer students, and continuing CSUSB students. Some of the scholarship monies are awarded to graduate students in special education who intend on pursuing careers as special education teachers and nursing students. All other monies are awarded to students with any major, who have a minimum 3.0 GPA, and have financial need.

Donald Lucia, Sr., Scholarship provides a \$5,000 award to a student with a minimum 3.0 GPA and who has financial need. This scholarship is open to all majors.

Fabiola Campos Scholarship is awarded to a full-time student, at least sophomore status, with a minimum 2.8 GPA, open to any major, and must be working 25 hours per week in addition to attending CSUSB. First preference will be given to residents of Barstow or graduates of Barstow High School. Second preference will be given to transfer students or graduates of Barstow College and Victor Valley College. Third preference will be given to all other students. The most recent award was \$300.

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 Zoecklein (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).

Graduate Equity Fellowship Program. California State University, San Bernardino annually awards Graduate Equity Fellowships to educationally or financially disadvantaged students, including under represented ethnic minority, women, or disabled graduate students during an academic year. The goal of the Graduate Equity

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Fellowship Program is to assist under-represented students in the completion of a master's degree at CSUSB, and encourage them to pursue a doctorate and teach at the university level. The award is based on academic achievement, financial need, and the potential for going on to a Ph.D., and eventually teaching at the university level. Fellowships are renewable for an additional year, on a competitive basis. Awards average over \$2,000 during an academic year. For more information contact the Graduate Studies Office at (909) 537-5058.

Mara Simmons Scholarship provides a \$2,100 scholarship to a full time student who has a physical or a learning disability and a minimum 2.5 GPA.

Mountain Communities Scholarship is awarded to students who are current residents of the Mountain Communities (Lake Arrowhead, Crestline, Running Springs, Blue Jay, and Lake Gregory), preference given to students who are nursing or health care related majors, have a minimum 2.5 GPA, and are enrolled at least as a part-time undergraduate or graduate student. Financial need is considered but not essential. For more information, contact the Financial Aid Office at (909) 537-7399. A total of eight (8) awards were last given, averaging \$2,000 each.

Lee & Pam Wigington Scholarship is awarded to a full-time student at either the graduate or undergraduate level, must have a minimum 2.5 GPA, and have financial need. The most recent award was \$500.

Obershaw Student Athlete of the Year Scholarship provides a scholarship to a female and male CSUSB athlete who has a minimum 3.0 GPA and financial aid. The most recent award averaged over \$1,000 each.

Reynold C. Gross Memorial Scholarship is awarded annually to an ROTC cadet in good standing. The amount is \$700. For more information, contact ROTC Office at (909) 537-5533.

Rose Brown Scholarship provides five \$1,000 scholarships to students with a minimum 2.5 GPA, financial need, to students who have been out of high school for at least eight years, and to widowed and/or single parent with children enrolled up through secondary school.

San Manuel Band of Mission Indians Scholarship is provided to students who are enrolled at CSUSB in a minimum of twelve (12) units for undergraduate students and eight (8) units for graduate students, have and maintain a minimum GPA of 2.5 at the undergraduate level or 3.25 at the graduate level, highest preference will be given to students who express an interest in the study of Indian culture, finance, policy, government and/or infrastructure. Students seeking to renew scholarships will be asked to demonstrate through course work, individual instruction, and the topics of research papers - their focus on the subject areas outlined above. The most recent awards averaged over \$2,000 each.

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

Taft T. Newman Scholarship provides a \$300 scholarship to an EOP student that is enrolled full-time, has a minimum 2.0 GPA, has financial need, and is a graduating senior.

William H. Wilson Scholarship is an award provided to a fulltime student at CSUSB, preferably from the immediate San Bernardino area. Applicants must demonstrate economic need. The most recent award was \$500.

Scholarships for Students Attending the CSUSB Palm Desert Campus

Coeta & Donald Barker Scholarship awards scholarships to nursing students who attend CSUSB Palm Desert Campus, has a minimum 3.0 GPA, and has financial need. Financial need is determined by completing the 2005-06 Free Application for Federal Student Aid (FAFSA). A letter of recommendation should come from a nursing instructor who can attest to the applicants noble characteristics of service to others and commitment to their profession. For more information, contact Bill Gray at the Palm Desert Campus at (760) 341-2883 ext 8104.

Ingster Family Scholarship awards scholarships to CSUSB Palm Desert Campus students who have a minimum cumulative GPA of 3.0 and are majoring in education or nursing. For more information, contact Bill Gray at the Palm Desert Campus at (760) 341-2883 ext 8104.

Mary Stuart Rogers Scholarship awards ten (10) to twenty (20) \$3,600 each scholarship to CSUSB Palm Desert Campus students. For more information, contact Bill Gray at the Palm Desert Campus at (760) 341-2883 ext 8104.

Palm Desert Campus Undergraduate Scholarship is awarded to undergraduate students who attend the CSUSB Palm Desert Campus and have a minimum cumulative GPA of 2.0 or higher. A letter of recommendation from a current instructor is needed. For more information, contact Bill Gray at the Palm Desert Campus at (760) 341-2883 ext 8104.

Roderick M. Hendry Scholarship is awarded to a full-time undergraduate student with a cumulative GPA of 3.0, and must have completed at least 45 quarter units of college coursework with a required minimum of 12 quarter units of coursework in their declared major with at least a 3.0 GPA. Financial need is considered by not mandatory. Applicants must submit a 500-word essay as to why they want, need and deserve this scholarship. For more information, contact Bill Gray at the Palm Desert Campus at (760) 341-2883 ext 8104.

Ward & Pat Frederick Scholarship awards scholarships to full-time CSUSB Palm Desert Campus students who have a cumulative 3.0 GPA, and have financial need. Financial need is determined by completing the 2005-06 Free Application for Federal Student Aid (FAFSA). Applicants should include in their personal essay a statement about their moral responsibility to provide support to other students in the future. A letter of recommendation from a current instructor is needed. The most recent award was for \$1,000. For more information, contact Bill Gray at the Palm Desert Campus at (760) 341-2883 ext 8104.

International Students

International Center, University Hall, Room 235

The International Center is the primary contact for international students including new immigrant and permanent resident students who are nationals of other countries. The International Center 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 Center also provides programs and activities to assist students with personal growth and development. Assistance and referrals are available for academic and personal counseling.

The Center coordinates the CSU International Programs, the Fulbright programs, and also houses the Phi Beta Delta Honor Society for international scholars. The Center 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.

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

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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 11 middle schools in the Inland Empire and approximately 600 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 10 high schools involved in UNAP from Riverside and San Bernardino Counties and approximately 500 participants.

Student Health Center

Student Health Center

(909) 537-5241 www.healthcenter.csusb.edu

The Student Health Center assists students in maintaining good health to successfully participate in the educational program of the campus, providing, on an outpatient basis, medical care typically provided by a primary care physician. Services available during posted hours include treatment of illnesses, injuries, contraceptive care, 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 staff 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 require hospitalization. For more information or to purchase this insurance, contact the Student Health Center or go to www.csuhealthlink.com.

The Center is closed on official university holidays. Office hours are Monday, Tuesday, Thursday 8 a.m.-5 p.m., Wednesday 8 a.m.-6 p.m. and Friday, 9 am-5 pm.

In case of an on campus emergency, contact the Department of Public Safety by dialing 911.

Immunization Requirements. All new students and students applying for re-admission born after January 1, 1957 must present proof of measles and rubella immunizations. Hepatitis B vaccine series is required of first time enrollees under the age of 19. However, students may be exempt if they have graduated from a California Public School during or after 2005. Meningitis (Menactra) vaccine is recommended for students living in the dorms.

The Student Health Center provides clearances for the registration immunization requirements for the Measles & Rubella immunization and the Hepatitis B series. These immunization requirements must be fulfilled in advance of or during the first quarter of attendance at CSUSB. These are both offered at the Student Health Center as well as the Menactra vaccine.

Students may fulfill these requirements by bringing, faxing (909) 537-7027 or mailing documentation to the Health Center. The Student ID # and date of birth must be on all documents. For those students unable to obtain acceptable proof of immunizations, the Student Health Center will provide the immunizations to all currently enrolled students. There is no fee for the Measles/Rubella vaccine. However, there is a fee for the Hepatitis B series and the Menactra

vaccine. For specific information about required immunizations call the Immunization hotline at (909) 537-7356, visit at www.health-center.csusb.edu, or call the Health Center at (909) 537-5241.

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

Health Center, Room 136

(909) 537-5040 www.csusb.edu/pcc

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 therapists, and supervised graduate interns. 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. Appointments may be scheduled by calling (909) 537-5040. Office hours are Monday through Friday, 8 a.m.-5 p.m.

Services to Students with Disabilities (SSD)

University Hall, Room 183 (909) 537-5238, TTY (909) 537-7230 http://enrollment.csusb.edu/~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: alternate media, sign language interpreting and real-time captioning services for the hearing impaired, test-taking accommodations, priority registration, 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.

University Police

911 for emergencies, (909) 537-5165

The University Police Department is a duly authorized law enforcement agency. The mission of the department is the protection of life and property on campus. The department provides professional service to the university community through diligent crime prevention, disaster preparedness, law enforcement, and campusoriented problem solving. The department's motto is "Campus Safety Through Service." All university police officers are fully trained California state peace officers with law enforcement authority throughout the State of California. The officers provide a full range of service, including law enforcement, crime reporting and investigation, crime prevention training, motorist assistance, traffic enforcement, accident investigation, lost and found property, disaster preparedness, escorts, and medical and fire emergency coordination and response. University Police operates 24 hours per day, 7 days per week, and can be reached by dialing 911 for emergencies and (909) 537-5165 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 University Police. Additional information is available on the university web page under University Police.

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

(909) 537-3700 www.csusbalumni.com

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.

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

(909) 537-5928

The Children's Center's mission is to enable parents of young children to attend CSUSB by providing child care in a nurturing environment which supports the developing child. Services are also available for staff, faculty and community as space permits. 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.-6:00 p.m.). Ages: three years (toilet trained) to 12 years. Additional information regarding fees and availability may be obtained from the Children's Center.

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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 web at http://www.csumentor. edu. The CSUMentor system allows students to browse through general information about CSU's 23 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. Failure to file complete, accurate and authentic application documents may result in denial of admission, cancellation of academic credit, suspension or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

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

http://www.csumentor.edu/

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 nonrefundable application fee should be in the form of a check or money order payable to: <u>The California State University</u>, 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 CSU campus that also offers the major. Generally an alternate major will be considered at the first choice campus before an application is redirected to an alternate choice campus. The applications of persons denied admission to an impacted campus may be re-routed to another campus at no cost, but only if the applicant is CSU eligible.

Application Filing Periods

Terms in	Applications	Initial
2006-2007	first accepted	Filing Period
Summer quarter 2006	Feb. 1, 2006	February 1-28, 2005
Fall quarter 2006	Oct. 1, 2005	Oct. 1-Nov. 30, 2005
Winter quarter 2007	June 1, 2006	June 1-30, 2006
Spring quarter 2007	Aug. 1, 2006	August 1-31, 2006

Each non-impacted campus accepts applications until capacities are reached. Many campuses limit undergraduate admissions in an 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. Similar information is available at http://www.csumentor.edu/filing_status/Default.asp.

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 only at some campuses. Candidates for admission must meet supplementary admissions criteria if applying to impacted programs.

The CSU will announce during the fall filing period those programs that 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 made available online at http://www.calstate.edu/AR/csureview/. Information about the supplementary criteria also is sent to program applicants. Detailed impaction information is also available at http:// www.calstate.edu/AR/impactioninfo.shtml.

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 more than one campus, 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 of the previous year 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 made available 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 Acknowledgment

On-time applicants may expect to receive an acknowledgment from the campus to which they have applied within two to four weeks of filing the application. The notice may also include a request that they submit additional records if necessary for the campus to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of their relevant qualifications indicates they meet CSU admission requirements, and campus requirements for admission to an impacted program. Unless specific written approval/confirmation is received, 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.

Generally, first time freshmen applicants will qualify for regular admission if they

- have <u>graduated</u> from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination,
- 2. have a qualifiable minimum 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 62 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 preparatory "a-g" subject requirements, and bonus points for approved honors courses.

Up to eight semesters of honors courses, taken in the last two years of high school, including up to two approved courses taken in the tenth grade can be accepted. Each unit of A in approved courses will receive a total of 5 points; B, 4 points; and C, 3 points.

A CSU Eligibility Index (EI) can be calculated by multiplying a grade point average by 800 and adding their total score on the SAT I for the mathematical and critical reading scores of the SAT. Students who 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 511 shows several combinations of test scores and averages. Applicants 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 not required to submit test scores. However, all applicants 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. Impacted CSU campuses usually require SAT or ACT scores of all applicants for freshman admissions.

Applicants will qualify for regular admission when the university verifies that they have graduated and received a diploma from high school, have a qualifiable minimum eligibility index, have completed the comprehensive pattern of college preparatory "a-g" subjects, and, if applying to an impacted program, have met all supplementary criteria.

Provisional Admission for First-Time Freshmen

CSUSB may offer students early, provisional admission based on work completed through the junior year of high school and planned for the senior year. The campus will monitor the senior year of study to ensure that those so admitted complete their senior year of studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Students are required to submit an official transcript after graduation to certify that all course work has been satisfactorily completed. The campus may rescind admission decisions for students who are found not to be eligible after the final transcript has been evaluated.

Students will qualify for regular admission when the university verifies the student has graduated from high school, has a qualifiable minimum 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.

- 2 years of social science, including 1 year of U.S. history, or U.S. history and government.
- 4 years of English.
- 3 years of math (algebra, geometry, and intermediate algebra).
- 2 years of laboratory science (1 biological and 1 physical, both with labs).
- 2 years in the same foreign language (subject to waiver for applicants demonstrating equivalent competence).
- 1 year of visual and performing arts: art, dance, drama/theater, or music.
- 1 year of electives: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, and visual and performing arts.

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 Services to Students with Disabilities. 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, call the director of Services to Students with Disabilities at CSUSB or at the nearest CSU campus.

Waiver of High School Foreign Language Subject Requirement

The high school 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. С

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Transfer Applicants

Students who have completed fewer than 90 transferable quarter college units (fewer than 60 semester units) are considered lower division transfer students. Students who have completed 90 or more transferable quarter college units (60 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 firsttime freshmen and must meet those admission requirements. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses and accepted as such by the campus to which the applicant seeks admission.

Lower Division Transfer Requirements. Generally, 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:

- Will meet the freshman admission requirements (grade point average and subject requirements) in effect for the term to which they are applying; or
- 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.

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.

Consult with any CSU admission office for further information about alternative ways to satisfy the subject requirements.

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

 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.

Provisional Admission for Transfer Students. Transfer students may be provisionally admitted based on their academic preparation and courses planned for completion. The campus will monitor the final terms to ensure that those admitted complete all required courses satisfactorily. All accepted applicants are required to submit an official transcript of all college level work completed. Campuses will rescind admission for all students who are found not to be eligible after the final transcript has been evaluated. In no case may such documents be received and validated by the university later than a student's registration for their second term of CSU enrollment.

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 conditions:

- 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.

Test Requirements

Freshmen and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit must submit scores, unless exempt (see "Eligibility Index" on Page 511) from either the ACT or the SAT 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 students 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

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 of-

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ficial 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.

TOEFL Requirement

All undergraduate applicants whose native language is not English and 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. Some campuses may also use alternative methods of assessing English fluency.

CSU minimum TOEFL standards are:

	Internet	Computer	Paper
Undergraduate	61	173	500
Graduate	80	213	550

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.

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. See Page 45 for auditing courses.

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 327.

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 should also make application to the College of Education.

Matriculation Policy

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

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 (not including summer) prior to the term for which the student is seeking admission or if the student was enrolled in another institution 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 46.)

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:

Petition on file
on or before:
July 1
December 1
March 1
June 1

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 for the term 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 approved courses subsequently taken elsewhere will be accepted for credit. See Page 44.

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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	Mathematics (1975 edition)
Social Science	Fine Arts
Biological Science	Literature
Physical Science	

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:

- 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.

Credit by Advanced Placement

Students who have successfully completed exams in the Advanced Placement Program of the College Board (defined as receiving a score of 3 or better) shall be granted up to nine quarter units of 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 Lifelong Understanding area of General Education.

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.

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.

High School-University Program

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 specific program and does not constitute the right to continued enrollment. 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

Carolyn Smith, Records, Registration and Evaluations Office (909) 537-5219, ksmith@csusb.edu

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.

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 must 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 reported to the home campus to be included on the student's transcript at the home campus.

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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 at the student's request to the home campus to be included on the student's transcript at the home campus.

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.

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.
- 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.
- 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.

Health Screening

All new and readmitted California State University, San Bernardino students are required to present proof of the following immunizations before the beginning their second quarter of enrollment. These are not admission requirements, but shall be required of students as conditions of enrollment in CSU.

Measles and Rubella. All new and readmitted students born after January 1, 1957 must provide proof of full immunization against both measles and rubella. If they do not have appropriate records, the Student Health Center (SHC) does provide these immunizations free of charge to all registered students.

Hepatitis B. All new students who will be 18 years of age or younger at the start of their first quarter must also provide proof of full immunization against Hepatitis B by the beginning of their second quarter of attendance. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum four to six months period. For further details, including price or special circumstances, consult the SHC.

Failure to meet the above requirements within the first quarter of attendance will result in a registration hold for subsequent quarters. Call the Student Health Center's Immunization Hotline at (909) 537-7356 or the SHC at (909) 537-5241 for further information. **Meningococcal Notification.** 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.

- Other persons subject to these screening provisions include:Students who reside in on-campus housing;
- Students who obtained their primary and secondary schooling outside the United States;
- Students enrolled in dietetics, nursing, physical therapy, student teaching, or field work involving preschool-age children, or working in a health care setting.

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 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 (26 U.S.C. 6109). The university uses the social security number to identify students and their records including identification 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 2006-2007

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 and ATM debit cards will be accepted at the Bursar and electronic checks via a Campus website. MasterCard, Discover, American Express and electronic checks will be accepted through a third party vendor with a service fee assessed. Credit cards will no longer be accepted on campus, except in the bookstore, commons and Foundation Cashier. See the *Class Schedule* for details. The application fee, identification card and late charge fees are nonrefundable.

The following reflects the systemwide fees and expenses for the quarter system in effect when the catalog was printed. Fees subject to change without notice.

The draft Governer's Budget released January 2006 does not include a student fee increase. However, information regarding 2006/07 student fees will not be know until the final budget is released approximately July 2006.

All students

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Application fee (nonrefundable, payable by check or money order at time of applying)	
State university fee per guarter (all students)	
Undergraduates	
0-6 units	
6.1 or more units	
Credential	
0-6 units	
6.1 or more units	
Graduates	
0-6 units	
6.1 or more units	
Associated Students, Inc. fee	
Fall	
Winter	
Spring	
Summer	
Coyote One Card	
Student union fee:	
Fall	
Winter	
Spring	
Summer term	
Health Center service fee	
Instructionally related activities fee:	
Fall	
Winter	
Spring	
Summer	
Ionresidents (U.S. and foreign)	
Tuition (in addition to other fees charged all students):	
per unit	
one-half unit	
Maximum nonresident tuition per academic year10,170.00	

Residence halls (estimated, for academic year, see Page 23)
Serrano Village
Double Residence Hall
\$4,050 + mandatory meal plan \$2,216.00= \$6,266.00
Single Residence Hall
\$5,040 + mandatory meal plan \$2,216.00=7,256.00
Super Single Residence Hall
\$5,490 + mandatory meal plan \$2,216.00= 7,706.00
Arrowhead Village
Single B/C apartment, no meal plan required5,670.00
Single A/D apartment, no meal plan required5,940.00
Studio apartment, no meal plan required
Super Single, no meal plan required
University Village
4 bedroom/2 bath, no meal plan required6,030.00
2 bedroom/1 bath, no meal plan required
4 bedroom/4 bath, no meal plan required
Special fees
Administrative fee
Credential fee
Various laboratory, activity and art studio fees
(consult the Class Schedule for current fees)5.00-40.00
Late registration
Failure to meet required appointment or time limit5.00
Grad check/Diploma fee (per major)
Grad check/Diploma, late, first filing (per major)40.00
Refiling (per major)
Late refiling (per major)
Diploma replacement fee
Change of graduation requirements
Enrollment verification
Graduation certificates
Commencement fee
Certificate fee
Change of major
Parking fees
Quarter:
Four-wheel vehicle
Two-wheel vehicle (includes mopeds)
Check returned for any cause or credit card
declined
Lost document replacement
Transcript of academic record
Single transcript
Additional transcripts prepared at the same time2.00
Expedited transcript request
Faxing unofficial transcript
Library feesschedule posted at Library circulation desk
Master's degree thesiscontact Office of Graduate Studies
Note: Fees subject to change without notice.
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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.

Fee Waivers

The California Education Code includes provisions for the waiver of mandatory systemwide fees as follows:

Section 68120: Children and surviving spouses/registered domestic partners 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 (referred to as Alan Pattee Scholarships);

Section 66025.3: Qualifying children, spouses/registered domestic partners, or unmarried surviving spouses/registered domestic partners of a war period veteran of the U.S. military who is totally

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service-connected disabled or who died as a result of service-related causes; children of any veteran of the U.S. military who has a service-connected disability, was killed in action, or died of a service-connected disability and meets specified income provisions; any dependents or surviving spouses/registered domestic partner who has not remarried of a member of the California National Guard who in the line of duty and in active service of the state was killed or became permanently disabled or died of a disability as a result of an event while in active service of the state; and undergraduate students who are the recipient of or the child of a recipient of a Congressional Medal of Honor and meet age and income restrictions; and

Section 68121: Qualifying students enrolled in an undergraduate program who are the surviving dependent of any individual killed in the September 11, 2001 terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the students meet the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either a surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001.

Students who may qualify for these benefits should contact the Office of Admissions and Student Recruitment for further information and/or an eligibility determination.

Disabled Student Quarterly Parking Fee Waiver

In order for a student to be eligible for the waiver of their Campus parking fee, a student must:

- Possess a valid state DMV Handicap Parking Placard or Plates in their name;
- b. Have " ...demonstrated financial need for parking fee financial assistance according to the need analysis procedure for campus based financial aid authorized by Title IV of the federal Higher Education Act of 1965, as amended (20 U.S.C. 1087kk et seq.)." Authority: California Education Code Sections 89701 and 67311.5 (b) (6);
- c. Submit the CSUSB "Request for Waiver of Campus Parking Fees," following the proper procedures described on the form. Forms may be obtained at the following offices during their normal office hours:

Services to Students with Disabilities (UH-183),

- Financial Aid Office (UH-150),
- Parking Services (TO-209).

For additional information on the Disabled Student Quarterly Parking Fee Waiver, visit the Financial Aid Office website, www.finaid.csusb.edu and click on Disabled Students.

Credit/Refund of Fees including Nonresident Tuition

Office of Accounting

(909) 537-5153 http://sao.csusb.edu/refunds/refund.htm

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 learning) are governed by a separate policy established by the University.

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

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 canceling registration and dropping classes is available in the *Class Schedule*. For state-supported semesters, quarters and non-standard terms of 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 non-resident tuition.

For state-supported semesters, quarters and non-standard terms of courses of less than four weeks, no refunds or mandatory fees and nonresident tuition will be made unless a student cancels registration or drops all classes prior to the first day in accordance with the university's established procedures and deadlines.

It is each student's responsibility to formally withdraw from classes and meet the conditions described above to receive a refund. The refund will be automatically mailed. Important notice: Students should make sure that the University has their correct mailing address. Refunds are typically processed within 10 business days. Registration fees paid by check or credit card are not considered valid until the bank has cleared the payment. Refunds will not be processed until checks and credits are cleared by the bank. Refunds for payments made by check require a copy of the student's canceled check; otherwise, it may take up to five weeks before Accounting receives confirmation from the State that the student's check has cleared.

Information concerning any aspect of the refund of fees may be obtained from Student Accounts Office located in Sierra Hall, Room 119, or extension 7426.

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 mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- 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 Director of Accounting may authorize a refund if he or she determines that the university did not earn the fees and tuition.

Fees and Debts Owed to the University

Should a student or former student fail to pay a fee or 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 debt" until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381).

Prospective students who register for courses offered by the university are obligated for the payment of fees associated with registration for those courses. Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student fees including any tuition for the reservation of space in the course.

The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution. If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person should contact the Director of Accounting. The Director of Accounting will review all pertinent information provided by the person and other campus offices and will advise the person of its conclusions.

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 meet with a Financial Aid Advisor in 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 \$650 to \$1,140 for fees plus parking costs.

Parking Services

Parking Services is located in TO-209 (behind the Pfau Library). Parking personnel can be reached at (909) 537-5912, or parking@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 officers provide services such as battery jumps and vehicle lockouts, as well as providing parking and general campus information. In addition to enforcing the campus parking regulations, officers patrolling the lots report criminal and suspicious activity directly to University Police Dispatch. Parking Services Bicycle Patrol enhances the safety of the parking lots while working with the University Police 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. Daily parking permits are available from ticket dispensers located at University Parkway, University Village, Serrano Village Drive, Coyote Drive, Sierra Drive, Lots A, Lot A Annex, Lots G and L, and between Lots E and F. Permits are valid in all lots except for those with special designation-the Science Lot and Lot M. 30-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 (909) 537-7433 (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 faculty, staff and students by providing the following services:

- Quarterly carpool permits
- Carpool ride matching services
- Vanpool services
- Metrolink schedules
- Omni Trans bus schedules
- Smog forecasts
- Parking regulations

Additionally, Commuter Services' mission is to increase the number of drivers who use an alternate transportation mode (i.e. carpool, vanpool, walk, bike, bus or metrolink) so that the number of single occupancy vehicles are reduced.

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S U 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 unless officially registered and appropriate fees have been 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>Unit</u>	<u>s earned</u>
Lc	ower-division	
	Freshman	
	Sophomore	9 quarter units
Up	Ipper-division	
	Junior	.9 quarter units
	Senior	arter units or more
Pc	ostbaccalaureate	g a baccalaureate degree
	from ar	n accredited college and not
	pursuir	ng a graduate degree
	prograi	m (2nd B.A./certificate)
	UnclassifiedNo deg	ree or credential objective
	ClassifiedPursuir	ng a credential
Gr	GraduatePostba	ccalaureate student
	pursuir	ng a graduate degree
	Conditionally classified Comple	eting prerequisite
	require	ments
	ClassifiedAdmitte	ed to the degree program

Academic Information Sessions

http://ug3.csusb.edu/Advising /index.htm

All new students, including entering freshmen and transfers, must attend an Undergraduate Studies Academic Information Session prior to meeting with an advisor and registering. Failure to do so will result in a denial of a student's registration request. 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.

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.
- 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.
- Prepare a list of questions or topics to discuss with the advisor. This is a good opportunity to discuss educational and career goals.

Faculty Advisor. 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.

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 fulltime 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. 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. Additional units may be added at the beginning of the first day of classes, if classes remain open and the overload is approved.

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 62 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. The year begins July 1 and ends June 30. Failure to meet these requirements will result in the ending of matriculation at CSUSB. Contact Academic Services for special circumstances at (909) 537-5034.

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. 0

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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 38.

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 49). 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 48 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.
- 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.
- 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 provost 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 332.

Concurrent Enrollment

A student in good academic standing at California State University 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 subsequent term, may enroll concurrently at another college.

Undergraduate students wishing to complete courses at another institution must submit a Concurrent Enrollment contract with the Office of Records, Registration, and Evaluations 2-3 weeks prior to the start of the term. Credit may not be awarded for course work completed without this prior approval. Approval will only be granted for local California Community Colleges, or other local institutions with which articulation agreements are in place. Upon completion of the course(s), the student must request an official transcript be sent to CSUSB.

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 course overloads must follow the procedures established by this campus. See Academic Course Load - Unit Overloads for procedures.

For CSU Intrasystem, Intersystem, and UCR Cross-Registration, see page 38.

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, (909) 537-5533.

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, (909) 537-5440.

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 Web-Reg 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 guarter 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.

Late Registration

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

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.)

Adding Classes

During the Open Enrollment and Schedule Adjustment period (see *Class Schedule* for specific dates) students may add classes by following the Registration Instructions detailed in the *Class Schedule*. It is important to note that students who add a class or classes after the first scheduled class session may find themselves at a distinct disadvantage in terms of doing well in the class(es). Students should also be aware that they are responsible for any material they may have missed as a result of adding after the first day.

Adding an Open Class. Beginning with the first day of classes, students may add classes if space is available through the first week (seven calendar days) of the quarter via TRACS or WebReg. During the second week of the quarter, classes may be added with the permission of the instructor. During the third week of the quarter, students will need the permission of the instructor and the department chair in order to add a class. Students may not add classes after the end of the third week of the quarter except for serious and compelling reasons and only with the approval of the instructor, the Department Chair, and Dean of the College in which the course resides. For questions concerning this policy, contact Records, Registration & Evaluation at (909) 537-5200.

Adding a Closed Class. During the first three weeks of the quarter, students may add a closed class with the permission of the instructor and the department chair. Students may not add closed classes after the end of the third week of the quarter except for serious and compelling reasons and only with the approval of the instructor, the Department Chair, and Dean of the College in which the course resides.

Retroactive Add. Requests for adding a class following the close of the term (retroactive add) will only be considered in the event of an error on the part of the university. Petitions for retroactive adds will be considered by the Dean of Undergraduate Studies for undergraduates or the Dean of Graduate Studies for post-baccalaureate and graduate students and will require documentation from the instructor which will show that the student attended the class and earned a passing grade.

Dropping Classes

Census Date. The policy on dropping classes frequently refers to the Census Date. The Census Date is the last day classes can be dropped without a record on the student's transcript. The specific dates are printed on Page 4 and in the current *Class Schedule.*

Types of Drops. The following types of drops are detailed in this section. The first four are all initiated by the student. The final one **may** be initiated by the instructor.

- Dropping a single class (or classes)
- Withdrawal (Dropping after census date)
- Retroactive Withdrawal
- Administrative Drops

Students should read this section carefully to understand fully when and for what reasons they may drop a course themselves or be dropped by an instructor. Students transferring from other institutions should note that the last day to drop a class without a record takes place much earlier here at CSUSB than they may have been accustomed to at their previous institution.

It is the students' responsibility to verify their schedule prior to the Census Date because they will receive a grade for every course in which they are shown to be officially registered. It is also the students' responsibility to withdraw from any class which they do not plan to attend and complete. While an instructor may drop a student for non-attendance during the first three weeks of classes, the student should not assume that the instructor will drop anyone from the class roster.

Dropping a Single Class (or Classes). During the Open Enrollment and Schedule Adjustment period (see *Class Schedule* for specific dates) students may drop classes by following the Registration Instructions detailed in the *Class Schedule*. Students may drop a class during the first three weeks of the fall, winter, or spring quarters (i.e. from the first day of instruction until Census Date), and the course will not appear on their permanent records; however, a refund will not be granted if withdrawal is beyond the refund deadline date. See the *Class Schedule* for specific dates for each quarter including summer.

Withdrawal (Dropping after Census Date). Drops (withdrawals) after the third week of the term are permitted only for serious and compelling reasons. These may include cases involving serious accident or illness (physical or mental), serious personal or family problems, military transfer, or substantial change in employment during the quarter. The student will be required to submit documentation to support the request to drop the course. Poor performance or poor attendance in the course will not be allowed as an acceptable reason to drop a course during this period.

Petitions to drop after Census Date are available in the office of the Dean of the College of the student's major. Drops during this period will require written documentation and the signature of the instructor, the department chair, and the Dean of the College of the student's major. Courses officially dropped during this time period will show a grade notation of "W" (withdraw) on the student's tran-

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script for that course. Students receiving a "W" are still subject to fees for the courses.

Students who do not officially withdraw will receive a grade notation of WU (unauthorized withdrawal) in the course which for purposes of grade point averages and progress point computation is equivalent to an "F." Students receiving a "WU" are still subject to fees for the courses. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available in the Office Records, Registration, and Evaluation.

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 or payment period. If a recipient of student financial aid funds withdraws from the institution during an academic term or a payment period, the amount of grant or loan assistance received may be subject to return and/or repayment provisions.

Retroactive Withdrawal. Requests for withdrawal from courses 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. Employmentrelated reasons are not acceptable. Partial withdrawal of grades during a term is not permissible unless special circumstances exist and approval is granted by the dean of the student's major. Otherwise, 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.

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

Administrative Drop

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

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

Prerequisites not met. Students who are unable to show completion of required courses or who do not have the background needed to succeed in the course may be dropped.

Declared majors. Students who have not been formally admitted to certain major programs will be dropped from courses that are open only to declared majors in that program. To remain in such classes, permission of the instructor may be required.

Students who are administratively dropped will receive a notice from the Office of Records, Registration, and Evaluation. Students should not assume they are automatically disenrolled unless written confirmation is received.

If the administrative drop reduces the student's unit load below 6.1 units, the student may be eligible for a refund of certain fees. However, 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 537-5153.

Leave of Absence

Degree seeking students who plan to be absent from the university for more than two consecutive quarters must file a leave of absence to preserve their current catalog rights (Title 5, Article 5, See. 40401). A petition, available through the Office of Advising and Academic Services, UH-380, 537-5034, must be filed and approved.

The leave of absence policy covers both involuntary and voluntary interruptions. In most instances, with an approved leave of absence, a student may be absent from the campus without losing rights to specific degree requirements under an earlier catalog.

Petitions for leaves of absence should be filed in advance of the interruption in enrollment. Each leave commences with the first regular quarter of non-attendance. Requests for medical and military leaves may be considered retroactively if supported by individual circumstances, but those requests must be filed no later than Census Date of the third regular quarter of non-attendance. Personal and planned educational leaves cannot be retroactive since they constitute an agreement or "contract" which must be set in advance. The maximum duration for any leave is two calendar years although exceptions to the two-year limit may be granted under extenuating circumstances.

Leaves of absence will not be approved for students subject to disqualification or dismissal due to academic deficiencies or disciplinary action. Other students ineligible for leaves of absence are those who are not completing any degree applicable course work, those who are enrolling only in extension courses or those who are only auditing courses.

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 quarter of regular enrollment.

International students must submit a copy of the leave of absence petition to the Office of International Student Services (ISS), UH-235. Visa students must be registered as full-time students except, when after three consecutive quarters of regular enrollment they decide to take a quarter off. All leave of absence periods must be approved by ISS prior to taking the leave in order to report the students properly to the Bureau of Citizenship and Immigration Services (BCIS). As a general rule, visa students must go back to their home country when applying for a leave of absence, as their primary goal in the U.S. is to obtain an academic degree.

The following Leaves of Absence may be requested:

Medical Leave of Absence: Requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. Exceptions to the two-year limit may be granted under extenuating circumstances.

Military Leave of Absence: For those being inducted, requests must be accompanied by a copy of military orders indicating the induction date. For students being called to active military service, Title 5, Section 40401, provides for an extended leave of absence up to a maximum of two years due to approved educational reasons and for circumstances beyond a student's control. The university will approve a leave for students called for active military service as a result of mobilization of U.S. military reserves. Students will retain their catalog rights and may register for subsequent quarters. In the case of students called for active military service, the university will authorize withdrawals throughout the quarter. For additional information, assistance with dropping current classes and other processing, see the veteran's coordinator in the Office of Records, Registration and Evaluation (UH-171, 537-5213).

Personal and Planned Educational Leaves of Absence: These leaves are defined as a planned interruption or pause in a student's regular education during which the student temporarily ceases formal studies at CSU, San Bernardino. 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 or to allow time to address personal matters and thus enhance the prospect of successful completion of the student's academic program.

Since students on leave maintain their catalog rights, courses completed at other institutions must have received prior approval in order to be transferred back to CSU, San Bernardino. Therefore, a student must also file a concurrent enrollment form with the Office of Records, Registration and Evaluations to obtain that approval. Failure to file a concurrent enrollment form may result in coursework not being accepted and revised G. E. and major requirements being required.

Returning from Approved Leave of Absence. When students plan to return from their leave, a readmission form, available through the Office of Records, Registration and Evaluations must be submitted within the filing period for the quarter of return. No application fee will be assessed for leaves of absence that meet the terms of the leave agreement.

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

Office of the Associate Dean of Undergraduate Studies, AD-183 http://academic-affairs.csusb.edu/progs/grade_policy

Information concerning grade grievances and other academic grievances may be obtained from the Office of the Associate Dean of Undergraduate Studies in AD-183 or from College Deans' offices. Generally, a grade grievance must be initiated by the student within no more than 40 working days after the grade is recorded.

Information concerning nonacademic grievances and discrimination complaints may be obtained from the Office of the Vice President for Student Affairs, UH-231, other 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:

Grade	Performance	Grade points per quarter
<u>symbol</u>		hour
A	Excellent	4.0
A-		3.7
B+		3.3
В	Good	3.0
B-		2.7
C+ C		2.3
C	Satisfactory	2.0
C-		1.7
D+		1.3
D	Passing	1.0
D-		.7
F	Failing	.0
WU	Withdrawal Unauthorized	.0
U	Unauthorized Incomplete	.0
I	Incomplete Authorized	
IC	Incomplete Charged	.0
RP	Report in Progress	
SP	Satisfactory Progress	
CR	Credit	
NC	No Credit	
CBE	Credit by Exam	
AU	Audit	
RD	Report Delayed	
W	Withdrawn	
WF	Withdrawn Failing	.0
FW	Failed, Withdrew	.0
UW	Unofficial Withdrawal	.0

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	
CR	Credit	
I	Incomplete (Authorized)	
NC	No Credit	
RD	Report Delayed	
RP	Report in Progress	
W	Withdrawal	

The administrative grade of UW (previously 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.

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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, students should not re-enroll in the course.

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 converted to an IC (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.

IC (Incomplete Charged): The IC symbol is used when a student who received an authorized incomplete "I" has not completed the required course work within the allowed time limit. The "IC" replaces the "I" and is counted as a failing grade for grade point average and progress point computation.

RD (Report Delayed): The RD symbol is used in those cases where a delay in the reporting of a grade is due to circumstances beyond the control of the student. The symbol is assigned by the 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.

RP (Report in Progress): The RP symbol is used in connection with courses that extend beyond one academic term. It indicates work is in progress but that assignment of a final grade must await completion of additional work. Work is to be completed within one year except for graduate degree theses. (Previously SP.)

W (Withdrawal): The symbol W indicates that the student was permitted to withdraw from the course after the 15th day of instruction with approval of the instructor and appropriate campus officials. It carries no connotation of quality of performance and is not used in calculating grade point average.

WU (Withdrawal Unauthorized): The symbol WU indicates that an enrolled student did not withdraw from the course and also 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 and progress point computation this symbol is equivalent to an "F." (Previously U.)

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.

Retention, Academic Probation and Disqualification

For purposes of determining a student's eligibility to remain at the university, quality of academic performance toward the student's objective shall be considered. Such eligibility shall be determined by the use of grade point average. Also see the Student Discipline Code (page 509) for other regulations governing expulsion, suspension, and probation. This policy is in effect beginning Fall 2003 following the Minimum Requirements for Probation and Disqualification established by Executive Order No. 823.

Academic Probation

An undergraduate student is subject to academic probation if at any time the cumulative grade point average in all college work attempted or the cumulative grade point average at California State University, San Bernardino falls below 2.0 (Title 5, California Code of Regulations, Section 41300 (a)). The student shall be advised of probation status promptly.

An undergraduate student shall be removed from academic probation when the cumulative grade point average in all college work attempted and the cumulative grade point average at California State University, San Bernardino is 2.0 or higher.

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Academic Disqualification

An undergraduate student on academic probation is subject to academic disqualification (as authorized by Section 41300 (b) of Title 5) when:

- 1. As a freshman (fewer than 45 quarter units of college work completed) the student falls below a grade point average of 1.50 in all units attempted or in all units attempted at the campus where enrolled.
- As a sophomore (45 through 89.9 quarter units of college work completed) the student falls below a grade point average of 1.70 in all units attempted or in all units attempted at the campus where enrolled.
- 3. As a junior (90 through 134.9 quarter units of college work completed) the student falls below a grade point average of 1.85 in all units attempted or in all units attempted at the campus where enrolled.
- 4. As a senior (135 or more quarter units of college work completed) the student falls below a grade point average of 1.95 in all units attempted or in all units attempted at the campus where enrolled.

The President (as authorized by Section 41300 (c) of Title 5) has designated the Director of Advising and Academic Services to act to disqualify an individual not on probation when the following circumstance exists:

- 1. At the end of any term, the student has a cumulative grade point average below 1.0, and
- The cumulative grade point average is so low that in view of the student's overall educational record, it seems unlikely that the deficiency will be removed within a reasonable period, as defined by campus academic policy.

Notice of Disqualification

Students who are disqualified at the end of any quarter under any of the provisions of this policy should be notified before the beginning of the next consecutive regular quarter. Students disqualified at the beginning of a summer enrollment break should be notified at least one month before the start of the fall term. In cases where a student ordinarily would be disqualified at the end of a term, save for the fact that it is not possible to make timely notification, the student may be advised that the disqualification is to be effective at the end of the next term. Such notification should include any conditions which, if met, would result in permission to continue in enrollment. Failure to notify students does not create the right of a student to continue enrollment.

Probation and Disqualification of post-baccalaureate and graduate students are subject to Section 41300 (d), (e), and (f) of Title 5 and criteria established by the Office of Graduate Studies. (See Standards for Graduate Study on Page 330.)

Administrative-Academic Probation

An undergraduate or graduate student may be placed on administrative-academic probation by action of appropriate campus officials (as authorized by Section 41300.1 of Title 5) for any of the following reasons:

- 1. Withdrawal from all or a substantial portion of a program of studies in two successive terms or in any three terms. (Note: A student whose withdrawal is directly associated with a chronic or recurring medical condition or its treatment is not to be subject to Administrative-Academic probation for such withdrawal.)
- Repeated failure to progress toward the stated degree objective or other program objective, including that resulting from assignment of 15 units with grades of NC, when such failure appears to be due to circumstances within the control of the student.
- 3. Failure to comply, after due notice, with an academic requirement or regulation, as defined by campus policy, which is routine for all students or a defined group of students (examples: failure

to complete a required CSU or campus examination, failure to complete a required practicum, failure to comply with professional standards appropriate to the field of study, failure to complete a specified number of units as a condition for receiving student financial aid or making satisfactory progress in the academic program).

When such action is taken, the student shall be notified in writing and shall be provided with the conditions for removal from probation and the circumstances that would lead to disqualification, should probation not be removed.

Administrative-Academic Disqualification

A student who has been placed on administrative-academic probation may be disqualified from further attendance (as authorized by Section 41300.1 of Title 5) if:

- 1. The conditions for removal of administrative-academic probation are not met within the period specified.
- 2. The student becomes subject to academic probation while on administrative-academic probation.
- 3. The student becomes subject to administrative-academic probation for the same or similar reason for which he has been placed on administrative-academic probation previously, although not currently in such status.

When such action is taken, the student shall receive written notification including an explanation of the basis for the action.

Administrative Contract Appeal and Readmission Process

A student placed on academic probation may appeal this action by contacting the Director of Advising and Academic Services. A student placed on academic probation may be required to meet with an academic advisor and sign an Administrative Contract with Advising and Academic Services. Failure to meet with an advisor and sign a contract or failure to meet the terms of the Administrative Contract will result in a registration hold for future enrollment.

A student subject to disqualification will not be permitted to enroll in any regular term and may be denied admission to other educational programs operated or sponsored by the university. The student must contact the Office of Advising and Academic Services at (909) 537-5034 in order to receive the guidelines to petition for readmission. See the statement on Readmission of Previously Disqualified Students on Page 37 for further details.

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. A course in which a student earned a grade of "C" or higher may not be repeated to discount the first grade earned in that course.
- 2. Students may repeat a course only once in order to have the first grade discounted provided they have earned a grade of "C-" or lower. 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.
- 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.

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- 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.
- 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.
- 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.
- 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 333. Contact Advising and Academic Services, UH-380, (909) 537-5034, 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.
- 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.
- 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:
 - 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 eight 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 act of presenting the ideas and writing of another as one's own. Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of any dishonest, deceptive, or fraudulent means.

Cheating includes but is not limited to:

- Copying, in part or in whole, from another's test, software, or other evaluation instrument;
- Submitting work previously graded in another course unless this has been approved by the course instructor or by departmental policy;
- Submitting work simultaneously presented in two courses, unless this has been approved by both course instructors or by the department policies of both departments;
- Using or consulting during an examination sources or materials not authorized by the instructor;
- Altering or interfering with grading or grading instructions;
- Sitting for an examination by a surrogate, or as a surrogate;
- Any other act committed by a student in the course of his or her academic work, which defrauds or misrepresents, including aiding or abetting in any of the actions defined above.

Plagiarism is academically dishonest and subjects the offending student to penalties up to and including expulsion. Students must make appropriate acknowledgements of the original source where material written or compiled by another is used.

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. Because there is a strong correlation between having a declared major and persistence at the university, all students are strongly encouraged to declare a major as quickly as possible. Students may declare a major at the time of admission. For some students, there will be a period of time early in their academic careers when they are unsure of the course of study they wish to pursue, and those students may take longer to declare a major. All CSUSB students with fewer than 70 quarter units must declare a major by the time they achieve junior class status (90 quarter units). Students transferring to CSUSB with 70 or more quarter units are strongly encouraged to declare a major when they matriculate.

In order to declare or change a major, students 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:

- 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
- 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.)

Required Declaration of a major. A non-transfer CSUSB student who has not declared a major will receive a notice from the office of Advising and Academic Services when the student has 70 units (this will count work in progress). The notice will require that the student come into the office of Advising and Academic Services and meet with an advisor to talk about selecting a major. A registration hold will be placed on the student's file, and the student will not be allowed to register for a subsequent term until he or she has come in for that appointment. Counseling regarding the selection of a major will be the focus of that appointment leading to referral to an academic department or, in some cases, to the Career Development Center. A student who does not declare a major by the time he or she has completed 90 quarter units will not be allowed to register without the approval of the Director of Advising and Academic Services.

The procedure for transfer students will depend on the total number of units CSUSB counts toward the student's degree. Students who receive credit for fewer than 70 quarter units will be held to the same timeline for declaring a major as students who began at CSUSB as first-time freshmen. Students who come in with 70 or more quarter units will be required to declare a major after they have completed 20 units at CSUSB. If a major is not declared at admission, the transfer student will receive a notice from the Office of Advising and Academic Services. The notice will require that the student come into the office of Advising and Academic Services and meet with an advisor to talk about selecting a major. A registration hold will be placed on the student's file, and the student will not be allowed to register for a subsequent term until he or she has come in for that appointment. Counseling regarding the selection of a major will be the focus of that appointment leading to a referral to an academic department or, in some cases, to the Career Development Center. If a major is not declared by the completion of 20 quarter units at CSUSB, a transfer student held to this policy will not be allowed to register without the approval of the Director of Advising and Academic Services

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same major 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 program 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 46.)

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 quarter prior to commencement.

- Highest Honors: an overall cumulative 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 cumulative 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 cumulative 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, anthropology, biology, chemistry, communication, computer science, criminal justice, economics, English, environmental studies, French, geography, geology, health science, history, human services, information and decision sciences, kinesiology, liberal studies, management, marketing, mathematics, music, nursing, philosophy, physics, 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 grad check until they have accumulated 135 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 refile 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. Minors are not included 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

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requesting this additional information. Duplicate diploma forms are available in the Office of Records, Registration and Evaluations and require a \$25 processing fee.

Commencement

Academic Affairs/Academic Resources Commencement Office (909) 537-7050

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

December 2006

Summer 2006, prospective December 2006 and March 2007 candidates are eligible to participate in the December 2006 commencement exercise. In order to obtain 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 2007

December 2006, March 2007 and prospective June and September 2007 candidates are eligible to participate in the June 2007 commencement exercises. In order to obtain 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 a graduation check 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 commencement fee of \$35.

Palm Desert Campus

The Palm Desert Campus holds one Commencement exercise in June. In order to obtain 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. The commencement fee can be paid online or at the Palm Desert Office. 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.

Master's Students

In order to participate in commencement, students completing a master's degree must file a grad check AND meet the eligibility requirements specified by their program. For the specific requirements, students should consult their program coordinator or go to http://gradstudies.csusb.edu.

Credential Students

Students completing a Multiple Subject, Single Subject, or Education Specialist Basic credential during September 2006 through August 2007 are eligible to participate in a Credential Recognition Ceremony rather than commencement. Only one Credential Recognition Ceremony will be held in June 2007. Specific information can be obtained in the College of Education Office, CH-102, (909) 537-5290. This event is also held for the Palm Desert campus students, which will be held in May, 2007. Contact the Teacher Education Office, IW-120.

Postbaccalaureate Credit for Senior Students

Senior students who need fewer than 16 quarter units to graduate may be permitted to enroll for postbaccalaureate credit during the final quarter of their senior year. Postbaccalaureate credit is used to signify courses taken after the baccalaureate degree, but does not necessarily mean graduate credit, i.e., credit applicable toward an advanced degree. Only 300- to 600-level courses will be considered. A petition for this purpose is available in the Office of Records, Registration and Evaluations. Note: Some 500- and 600level courses require prerequisites and are open only to students classified in a master's program.

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 Page 40.) 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.

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

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	
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3/4 time9-11.5 quarter units

1/2 time6-8.5 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.

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MINORS

Accounting Department of Accounting and Finance, JB-459, (909) 537-5704. See Page 74. Anthropology Department of Anthropology, SB-327J, (909) 537-5502. See Page 83. Applied Physics Department of Physics, PS-119, (909) 537-5397. See Page 274. Art History Department of Art, VA-105, (909) 537-5802. See Page 91. Biology Department of Biology, BI-329, (909) 537- 5305. See Page 101. **Business Administration** College of Business and Public Administration, JB-278, (909) 537-5700. See Page 74. **Business Information Mapping** Department of Information Decision Sciences, JB-460, (909) 537-5723. See Page 74. Chemistry Department of Chemistry and Biochemistry, CS-204, (909) 537-5318. See Page 108. Chicano(a)/Latino(a) Studies, Ethnic Studies College of Social and Behavioral Sciences, SB-207, (909) 537-7500. See Page 167. Communication Department of Communication Studies, UH-018, (909) 537-5815. See Page 114. **Computer Science** Department of Computer Science, JB-307, (909) 537-5326. See Page 120. **Criminal Justice** Department of Criminal Justice, SB-209, (909) 537-5506. See Page 126. **Economics** Department of Economics, SB-327D, (909) 537-5511. See Page 132. English Department of English, UH-334, (909) 537-5824. See Page 157. **Environmental Management** Department of Management, JB-461, (909) 537-5731. See Page 74. **Environmental Studies** Department of Geography and Environmental Studies, SB-327J, (909) 537-5519. See Page 165. **Ethnic Studies** College of Social and Behavioral Sciences, SB-207, (909) 537-7500. See Page 166. Finance Department of Accounting and Finance, JB-459, (909) 537-5704. See Page 75. French Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 173. Geography Department of Geography and Environmental Studies, SB-327J, (909) 537-5519. See Page 176. Geology Department of Geological Sciences, PS-219 (F), BI-113A (WS); (909) 537-5336. See Page 181. German Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 184.

Graphic Design-Print Department of Art, VA-105, (909) 537-5802. See Page 92. **Graphic Design-Web** Department of Art, VA-105, (909) 537-5802. See Page 92. **Health Science** Department of Health Science and Human Ecology, JB-263, (909) 537-5339. See Page 190. History Department of History, SB-327F, (909) 537-5524. See Page 201. **Human Resources Management** Department of Management, JB-461, (909) 537-5731. See Page 75. **Information Management** Department of Information Decision Sciences, JB-460, (909) 537-5723. See Page 75. Intercultural Communication Department of Communication Studies, UH-018, (909) 537-5815. See Page 114. Kinesiology Department of Kinesiology, HP-120, (909) 537-5349. See Page 223. Latin American Studies College of Arts and Letters, UH-201.44, (909) 537-5858. See Page 229. Management Department of Management, JB-461, (909) 537-5731. See Page 75. Marketing Department of Marketing, JB-458, (909) 537-5749. See Page 75. Mathematics Department of Mathematics, JB-370, (909) 537-5361. See Page 247. Music Department of Music, PA-111, (909) 537-5859. See Page 255. **Nutrition and Food Sciences** Department of Health Science and Human Ecology, JB-263, (909) 537-5339. See Page 267. **Paralegal Studies** Department of Criminal Justice, SB-209, (909) 537-5506. See Page 126. Philosophy Department of Philosophy, UH-339, (909) 537-5869. See Page 269. Physics Department of Physics, PS-119, (909) 537-5397. See Page 274. **Political Economy** Department of Economics, SB-327D, (909) 537-5511. See Page 132. **Political Science** Department of Political Science, SB-112, (909) 537-5535. See Page 278. **Pre-Law** Department of Political Science, SB-112, (909) 537-5535. See Page 278. Psychology Department of Psychology, SB-425, (909) 537-5570. See Page 282 **Public Administration** Department of Public Administration, JB-456, (909) 537-5758. See Page 75. **Public Relations** Department of Communication Studies, UH-018, (909) 537-5815. See Page 114.

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Real Estate

College of Business and Public Administration, JB-278, (909) 537-5700. See Page 75.

Recording Arts

Department of Music, PA-111, (909) 537-5859. See Page 255.

Recreation

Department of Kinesiology, HP-120, (909) 537-5349. See Page 223.

Script Writing

Department of Theatre Arts, PA-111, (909) 537-5876.

See Page 311.

Sociology

Department of Sociology, SB-327, (909) 537-5541. See Page 298.

Spanish

Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 302.

Sports Management

Department of Management, JB-461, (909) 537-5731. See Page 76.

Studio Art

Department of Art, VA-105, (909) 537-5802. See Page 92.

Supply Chain Management

Department of Information Decision Sciences, JB-460, (909) 537-5723. See Page 76.

Theatre Arts

Department of Theatre Arts, PA-111, (909) 537-5876. See Page 311.

Women's Studies

Women's Studies Program, UH-201.46, (909) 537-5838. See Page 323.

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 impart specified professional/vocational/career competencies, or produce mastery of the content of a sub-field of an academic major (discipline), or 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, (909) 537-5704. See Page 76.

Ambulatory Care/Group Practice Management Department of Health Science and Human Ecology, HP-235, (909) 537-5339. See Page 190.

Applied Cultural Anthropology

Department of Anthropology, SB-327J, (909) 537-5502. See Page 83.

Archaeology

Department of Anthropology, SB-327J, (909) 537-5502. See Page 83.

Bilingual/Cross-Cultural Studies: Spanish/English Department of World Languages and Literatures,

UH-314, (909) 537-5847. See Page 303.

Biotechnology

Department of Biology, BI-329, (909) 537-5305. See Page 101. Business Skills for the Artist

Department of Art, VA-105, (909) 537-5802. See Page 92. Coaching

Department of Kinesiology, HP-120, (909) 537-5349. See Page 224.

Communication Skills

Department of Communication Studies, UH-018, (909) 537-5815. See Page 114.

Community Mental Health

Department of Health Science and Human Ecology, HP-235, (909) 537-5339. See Page 190.

Computer Systems and Programming
Department of Computer Science, JB-307, (909) 537-5326.
See Page 120.
Conflict Management
Department of Communication Studies, UH-018,
(909) 537-5815 or Department of Management, JB-461,
537-5731. See Page 356.
Criminal Justice Department of Criminal Justice, SB-209, (909) 537-5506.
See Page 126.
Crosscultural, Language and Academic Development (CLAD)
Teacher Education Office, FO-125, (909) 537-5650.
See Page 398.
Early Adolescent Education
Department of Educational Psychology and Counseling,
FO-249, (909) 537-5606. See Page 399.
Early Childhood Special Education
Department of Educational Psychology and Counseling,
FO-249, (909) 537-5606. See Page 399.
Education of the Gifted and Talented
Department of Educational Psychology and Counseling,
FO-249, (909) 537-5606. See Page 399.
Educational Professional Services
Teacher Education Office, FO-125, (909) 537-5603. See Page 399.
Educational Technology
Department of Science, Mathematics and Technology
Education, CH-107, (909) 537-5290. See Page 399.
Environmental Education
Environmental Education Office, PL-279, (909) 537-5640.
See Page 399.
Environmental Management
Department of Management, JB-461, (909) 537-5731.
See Page 77.
Fitness Management
Department of Kinesiology, HP-120, (909) 537-5349.
See Page 224.
French/English and English/French Translators
Department of World Languages and Literatures,
UH-314, (909) 537-5847. See Page 173.
Geographic Information Systems
Department of Geography and Environmental Studies, SB-327J, (909) 537-5519. See Page 177.
German/English Translators
Department of World Languages and Literatures,
UH-314, (909) 537-5847. See Page 184.
Gerontology
Department of Sociology, SB-327, (909) 537-5541.
See Page 298.
Health Care Management
Department of Health Science and Human Ecology,
JB-263, (909) 537-5339. See Page 191.
Human Resources
Department of Management, JB-461, (909) 537-5731.
See Page 77.
Information Systems Management
Department of Information and Decision Sciences,
JB-460, (909) 537-5723. See Page 77.
Intelligence Methodology
National Security Studies Office, SB-112, (909) 537-5534.
See Page 452. International Relations
Department of Political Science, SB-112, (909) 537-5535/5534.
See Page 279.

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Introductory Actuarial Science Department of Mathematics, JB-370, (909) 537-5361. See Page 247. Latin American Studies Department of Anthropology, SB-327J, (909) 537-5502. See Page 83. **Museum Studies** Department of Anthropology, SB-327J, (909) 537-5502. See Page 84. Paralegal Studies Coordinator's Office, SB-209C, (909) 537-5506. See Page 126. Reading/Language Arts Department of Language, Literacy and Culture, FO-138, (909) 537-7405. See Page 399. **Recreation Leadership** Department of Kinesiology, HP-120, (909) 537-5349. See Page 224. **Rehabilitation Counseling** Department of Educational Psychology and Counseling, FO-249, (909) 537-5606. See Pages 400 and 473. **School Business Management** Department of Educational Leadership and Curriculum, FO-144, (909) 537-7404. See Page 400. **Social Services** Department of Sociology, SB-327, (909) 537-5541. See Page 298. Spanish for Public Services Department of World Languages and Literatures, UH-314, (909) 537-5847. See Page 303. Sports Management Department of Management, JB-461, (909) 537-5731. See Page 77. Supply Chain Management Department of Information and Decision Sciences, JB-460, (909) 537-5723. See Page 77. **Teaching Basic Mathematics** Department of Mathematics, JB-370, (909) 537-5361. See Page 247. **Theatre for Youth** Department of Theatre Arts, PA-111, (909) 537-5876. See Page 312. Urban Planning Department of Geography and Environmental Studies, SB-327J, (909) 537-5519. See Page 177. Women's Studies University Hall, Room 201.46, (909) 537-5838. See Page 324. Writing: Creative Writing Department of English, UH-334, (909) 537-5824. See Page 157. Writing: Professional Writing Department of English, UH-334, (909) 537-5824. See Page 157.

EXTENDED LEARNING

College of Extended Learning

Sierra Hall, Room 134 (909) 537-5975 http://cel.csusb.edu

The College of Extended Learning (CEL) at California State University, San Bernardino 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, customized training programs, 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 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, the Coachella Valley and beyond. Taught by university faculty and academically qualified practitioners, many of these courses provide professional development in business, management, education, health care, human services 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. Current certificate programs and workshops include:

Business/Management:

Business and Professional Writing Workshops CPA Workshops Grant Development and Management Human Resources Management Logistics Management Management and Leadership Practices **Records Management** Safety, Environmental and Risk Management School Business Management Supervisory Skills Training Sessions Computer Systems: Computer-Aided Drafting (CAD) Computer Graphics and Design Online Microsoft Certified IT Training Web Page Design Education: Early Childhood Education Primary Reading Development Intermediate Reading Development On-line Technology Integration, K-12 School Business Management

Science for Elementary Teachers

Spanish Interpreting and Translation in a School Setting Standards Approach to Mathematics Health and Human Services

The 1000 lovel extension on

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 22)

Extended Learning also offers numerous on-line career training courses and personal enrichment courses in areas such as writing, recreation, music, test preparation courses and travel. An array of exciting courses for kids also is offered on a regular basis. For more information, call (909) 537-5975.

Inservice Credit for Training Programs

Schools, school districts and other organizations interested in planning special staff development programs may contact the College of Extended Learning to arrange for university credit. Training programs that meet academic criteria set forth by CSUSB can provide participants with CEU hours or extension credit (non-degree applicable credit) that can be used toward credential renewal and salary increases. The application process is simple and quick. For more information, call (909) 537-5976.

WORKPLACE TRAINING/ CONTRACT PROGRAMS

The College of Extended Learning provides training development programs, certificate programs, conferences, and educational components for grants on a contractual basis for business (large and small), private industry, health care organizations, not-for-profit 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 problemsolving skills of the organization's staff. For more information, call (909) 537-5979.

CONFERENCE SERVICES

The College of Extended Learning's conference services division provides 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 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 (909) 537-5995. 7

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OSHER LIFELONG LEARNING INSTITUTE

The Osher Lifelong Learning Institute is a partnership between the College of Extended Learning and CSUSB's Palm Desert Campus made possible through generous funding from the Bernard Osher Foundation. Through quarterly memberships in this Institute, retirement-aged seniors in the Coachella Valley can choose courses from an impressive array of non-credit offerings taught by CSUSB faculty and local experts. It's college level learning for the pure joy of it—no tests, no grades, no stress—just stimulating courses at the beautiful Palm Desert Campus. For more information, call (760) 341-2883, ext. 4425.

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 and 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 and Language Program offers a tenweek 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 professional practices, culture, and
- 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 (909) 537-5978.

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,
- have "dropped out" of CSUSB or want to improve their G.P.A. in order to reenter an academic program, or
- want to take selected CSUSB courses that will transfer to another university.

Students who desire to enroll in Open University classes are required to obtain an application from the College of Extended Learning and approval of the instructor. Education credential courses are not available through Open University, and certain other courses are restricted and require departmental approval. Currently matriculated students are not allowed to enroll concurrently in the Open University program. For more information, call (909) 537-5975.

SPECIAL SESSIONS

In partnership with other colleges within the University, degree and certificate programs are made available through the College of Extended Learning to specific audiences. These programs, known as "Special Sessions," are fully self-supporting. Programs may be offered at off-campus locations nationally and internationally as well as online. Special Sessions degree and/or certificate programs are identical in quality to those offered on campus, and students must be admitted to the University in order to enroll. Through Special Sessions, the College of Extended Learning, in collaboration with other colleges and departments, extends to the University's high quality academic programs to audiences that otherwise could not be served. For more information on Special Sessions available through the College of Extended Learning, (909) 537-3907.

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UNDERGRADUATE DEGREE PROGRAMS

Office of the Dean of Undergraduate Studies

University Hall, Room 352 (909) 537-5032 (909) 537-7012 (fax) http://www-ugs.csusb.edu

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 63, 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 requirements are several important process requirements that must be attended to in order to obtain an undergraduate degree. Finally, beginning on Page 67 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

University Hall, Room 380

(909) 537-5034 http://www-ugs.csusb.edu/advising/ askcsusb@mail.csusb.edu (for advising questions)

Advising and Academic Services provides academic advising for all undeclared students, through the S.T.A.R.S. program, 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.

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), and supervision for USTD 27 (individualized study contract). Electronic Mail (e-mail) Advising is available for students, faculty, staff and the community for academically related inquires.

Educational Opportunity Program

University Hall, Room 395

(909) 537-5042 http:// www-ugs.csusb.edu/eop/

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.

Educational Support Programs

Administration, Room 183

(909) 537-5044

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; coordinates the Special Major program; develops and initiates universitycommunity partnership projects that support the division's goals of enhancing the quality of academic life for students, educational access and graduation, and early outreach.

Faculty/Student Mentoring Program

Pfau Library, Room 208

(909) 537-7765 http:// www-ugs.csusb.edu/mentor/

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

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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.

The First-Year Seminar

University Hall, Room 380

(909) 537-5034

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.

Intensive Learning Experience

University Hall, Room 352

(909) 537-5032

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.

Learning Center

University Hall, Room 351

(909) 537-5038 http://dcr.csusb.edu/LearningCenter

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 pay 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. For a charge, the Learning Center will also proctor exams for other institutions.

The Learning Center has evening hours four nights a week (Monday-Thursday 8 a.m.-8 p.m.). Note: English/writing tutoring is conducted by the separate Writing Center.

SAIL Program

University Hall, Room 386 (909) 537-5921 http://www-ugs.csusb.edu/sail/

sail@csusb.edu

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.
- Grant assistance to eligible Pell grant recipients.
- A variety of educational and enrichment activities.

SAIL serves 325 students each year; the primary enrollment period is September 1st to December 1st.

Testing

Jack Brown Hall, Room 405

(909) 537-5045 http://www-ugs.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.

Writing Center

University Hall, Room 387

(909) 537-5232 http://www-ugs.csusb.edu/wc/

Writing consultants work with students who are composing specific writing projects as well as with faculty members who are incorporating writing as a mode of learning in their courses. Consultants offer individual conferences to students in all disciplines at all stages of their composing processes; conferences focus on interpreting assignments, discovering topics, expanding ideas, clarifying organizational strategies, incorporating counter-arguments, and citing references, as well as on editing and proofreading. Consultants also offer conversation groups to help ESL and other multilingual students negotiate the linguistic and cultural differences in oral and written composition.

As part of the University's Writing-Across-the-Curriculum program, Writing Center staff consult with faculty members who are designing writing components for their courses, conduct in-class writing workshops in courses in all disciplines, and read and respond to manuscripts in preparation.

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

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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 99. 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 ranging from 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 278.

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

Administration Building, Room 143

(909) 537-7344 **McNair@csusb.edu** 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.

PROGRAM REQUIREMENTS FOR A BACHELOR'S DEGREE

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

- Complete a minimum of 180 quarter units of college credit. Some majors require more than 180 quarter units to a maximum of 198.
- 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 guarter units of upper-division course work in the major.
- Complete at least 45 quarter units at this university. (Refer to University Residence Requirement for Graduation, Page 63.)
- 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.

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- 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. (See Page 66.)
- 10. Complete the history, constitution and government requirement. (See History, Constitution, Government Requirement, Page 66.)
- 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 Placement Test Requirements

The CSU requires each entering undergraduate, except those who qualify for an 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, (909) 537-5041.

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 "Exempt" on the augmented English CST; i.e. the CSU Early Assessment Program (EAP), taken in grade 11.
- A score of 550 or above on the verbal section of the College Board SAT I Reasoning Test taken 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 "Exempt" on the augmented mathematics CST; i.e. the CSU Early Assessment Program (EAP), taken in grade 11.
- A score of "conditionally exempt" on the augmented mathematics CST; i.e. the CSU Early Assessment Program (EAP), plus successful completion of a Senior-Year Mathematics Experience (SYME).
- A score of 550 or above on the mathematics section of the College Board SAT 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 Scores

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 math course.

Note the old scores for ELM tests administered before March 23, 2002 are in parenthesis (). ELM scores and required course placement:

- ELM score of (550 or greater) 50 or greater students may enroll in MATH 110, 115, 120, 192, 211.
- ELM score of (480 to 540) 41 to 49, students must enroll in MATH 90.
- ELM score of (350 to 470) 30 to 40, students must enroll in MATH 80.
- ELM score of (330 to 340) 25 to 29, 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) 19 to 29, students must enroll in MATH 75B.
- ELM score (below 270) 18 and below, students must enroll in MATH 75A.

ALL PREREQUISITE MATH COURSES (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 Math course. Contact Advising and Academic Services at (909) 537-5034 for more information. CSUSB <u>strongly encourages</u> students who need pre-baccalaureate level coursework to begin that work in the summer prior to the start of the regular academic school year.

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, (909) 537-5035). 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;
- Upper-division writing requirement; 2.
- 3. Requirements of the major involved;
- 4. In addition to whatever work was presented for the first bachelor's degree, a minimum of 45 guarter units of residence work of which a. 18 units must be in the second major,
 - 12 units must be in general education, b.
 - C. 36 units must be at the upper-division level;
- Maintain a 2.5 grade point average in all work attempted; 5.
- 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. 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. See Page 40 for further information about fees for a second major.

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 araduating 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. See Page 53 for a complete list of minors offered at the university.

GENERAL EDUCATION PROGRAM Requirements (78-82 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 the general education program is not, primarily, to provide students with a number of possible avenues for specialization. Rather it is intended to ensure that all students will have a firm grasp of the basic skills of critical thinking, numerical literacy, and oral and written communication; understand the issues on which they will have to make decisions; and know something about themselves and the world in which they live.

The general education program requires a minimum of 78 quarter units. An additional four units may be required to satisfy the Upperdivision Writing Requirement.

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)

- Written Communication 1.
- Four units chosen from:
 - ENG 101. Freshman Composition (4)

HON 103. Language and Meaning (4)*

2. **Oral Communication**

Four units chosen from: Oral Communication (4) COMM 120.

Language and Meaning (4)* HON 103.

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Mathematics	
One course listed in the mathematics section of the natural	
sciences breadth area (category B1).	
Critical Thinking	
Four units cho	osen 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)
Natural Scier	nces Breadth Area (20 units)
Mathematics	
Four units cho	osen 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)
Life Sciences	
BIOL 100.	Topics in Biology (5)
	Biology of Populations (5)
	Health and Society: An Ecological Approach (5)
	five units chosen from:
	Chemistry in the Modern World (5)
CHEM 205.	Fundamentals of Chemistry I: General
	Chemistry (5)
CHEW 215.	General Chemistry I: Atomic Structure and Chemical Bonding (6)
GEOG 103	Physical Geography (5)
	Introductory Geology (5)
	Physics in the Modern World (5)
	Descriptive Astronomy (5)
	Basic Concepts of Physics I (5)
	General Physics I (5)
-	s in Science and Technology
Two units cho	
BIOL 216.	Genetics and Society (2)
BIOL 217.	Biology of Sexually Transmitted Diseases (2)
CHEM 105.	Chemicals in Our Environment (2)
CSCI 122.	Bioinformatics (2)
CSCI 129.	Science, Computing and Society (2)
GEOL 205.	Volcanic Hazards, Surveillance and
	Prediction (2)
	Earthquakes: Science and Public Policy (2)
	pstone in the Natural Sciences
	Science and Technology (4)
	The Environment and Human Survival (4)
	Life in the Cosmos (4)
	Natural Disasters (4)
	Energy (4)
NSUI 325.	Perspectives on Gender (also counts in
	category G) (4)
	One course lis sciences brea Critical Thinkin Four units cho COMM 180. HON 103. MATH 180. PHIL 105. PHIL 200. PSYC 105. SOC 180. Natural Scier Mathematics Four units cho MATH 110. MATH 110. MATH 1120. MATH 120. MATH 211. Life Sciences Five units cho BIOL 202. HSCI 120. Physical Scier A minimum of CHEM 100. CHEM 205. CHEM 215. GEOG 103. GEOL 101. PHYS 103. PHYS 121. PHYS 121

*Open only to students accepted into the University Honors Program. The entire HON 103 A/B/C sequence must be completed before the student will be granted General Education credit in any Basic Skills category. See sections A1, A2, A4.

Health and Human Ecology (4) NSCI 351. 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: ARAB 102. College Arabic II (4) ARAB 150. Intermediate Arabic III (4) ARAB 214. Conversation in Arabic (4) ARAB 290. Arabic Literature in Translation (4) FLAN 102. Language Study II (4) FLAN 150. Intermediate Language Study (4) FREN 102. College French II (4) FREN 150. Intermediate French (4) Culture and Communication (4) FREN 200. FREN 201. Culture and Communication II (4) FREN 202. Culture and Communication III (4) FREN 290. French Literature in English (4) GER 102. College German II (4) GER 150. Intermediate German (4) GER 212. Composition (4) Conversation (4) GER 214. GER 216. Introduction to Literary Texts (4) German Literature in English (4) GER 290. College Japanese II (4) JAPN 102. JAPN 150. Intermediate Japanese (4) JAPN 290. Japanese Literature in English (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 Heritage/Native Speakers (4) SPAN 212. Composition (4) SPAN 213. Composition for Heritage/Native Speakers (4) SPAN 214. Conversation (4) SPAN 290. Spanish and Latin American Literature in English (4) Credit toward the foreign language or literature in trans-Note: lation category (see below for eligibility) will only be awarded for: ARAB 102. College Arabic II FLAN 102. Language Study II FREN 102. College French II GER 102. College German II JAPN 102. College Japanese II MAND 102. College Mandarin II SPAN 102. College Spanish II

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		e American history, constitution, state and local gov-
		ment requirement may be met by taking:
	-	CI 203. American Government
		d one of the following: ST 146. American Civilization
		ST 200. United States History to 1877
		ST 201. United States History, 1877 to the
		Present
	If this require	ement is met by examination, then students still must
		of lower-division units in this breadth area.
3.	World Cultur	
	Four units ch	
	ANTH 140. HIST 140.	World Civilizations I, the Rise of Civilization (4) World Civilizations I, the Rise of Civilization (4)
	HIST 140.	World Civilizations I, the Civilizations of the East
	11101112.	and West (4)
	HIST 144.	World Civilizations III, the Expansion of
		Europe (4)
	SSCI 165.	Regions and Peoples of the World (4)
4.	Discipline Pe	
	Four units ch ANTH 100.	
	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)
	PSYC 100.	Introduction to Psychology (4)
	SOC 100. WSTD 100.	The Study of Society (4) Introduction to Women's Studies (4)
5.		apstone in the Social and Behavioral Sciences
0.	Four units ch	
	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
	SSCI 220	category G) (4)
	SSCI 320. SSCI 321.	Understanding Capitalism (4) Urbanization and the Urban Environment (4)
	SSCI 325.	Perspectives on Gender (also counts in
		category G) (4)
	SSCI 345.	Religious Expression in America (4)
	SSCI 350.	Roots of Modern Racism in America (also counts
		in category G) (4)
		dents may receive credit for only one of the owing courses:
		JM 325. Perspectives on Gender
		SCI 325. Perspectives on Gender
		SCI 325. Perspectives on Gender
Ε.		derstanding Category (6 units)
1.		Person - Physical and Physiological Issues
	KINE 205.	Foundations for Lifetime Fitness and
S		Wellness (2)
2.	Two units ch	Person - Social and Psychological Issues
	FIN 101.	Financial Choices in Life (2)
	PHIL 101.	Moral Choices in Life (2)
	SOC 110.	Choices in the Life Course (2)
3.	Physical Edu	
	Two units ch	osen from:

- KINE 101. Individual and Dual Activities (2)
- Physical Fitness and Conditioning Activities (2) KINE 114. KINE 120.
 - Combative and Martial Arts Activities (2)
- KINE 121. Team Activities (2)

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 World Languages and Literatures;

- Students whose language of instruction in secondary school C. 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.

Philosophy 4.

Four units chosen from:

- PHIL 190. Introduction to Philosophical Issues (4)
- PHIL 191. Introduction to Ethics (4)
- Introduction to Philosophy of Religion (4) PHIL 192.
- PHIL 193. Introduction to Eastern Philosophy (4)
- Introduction to Knowledge and Reality (4) PHIL 194.
- Integrative Capstone in the Humanities 5.
- 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 375. The World of Islam (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 1.

Four units chosen from:

- HIST 146. American Civilization (4)
- HIST 200. United States History to 1877 (4)
- United States History, 1877 to the Present (4) HIST 201.
- 2. American Institutions
 - PSCI 203. American Government (4)

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5	K	INE 137.	Aquatic Activities (2)	Upper-Division Writing Requirement
2	K	INE 147.	A Fitness Odyssey (2)	All undergraduate students subject to degree requirements of the
	K	(INE 149.	Independent Activity Project (2)	1980-81 or subsequent University Bulletins must complete an upper-
2	K	(INE 150.	Dance Activities (2)	division writing competency requirement as a condition of graduation
<u> </u>	N		udents are required to complete two units of phys-	through either of two means:
5		ical e	ducation in this category. Ten additional units of	1. Completion with a grade of "C" (2.0) or better of one of the fol-
5			cal education activity courses (numbered 150 and	lowing courses: EDUC 306, ENG 306, HUM 306, MGMT 306,
-		below	i) for a total of 12 units maximum may be applied	NSCI 306 or SSCI 306. Prerequisites for 306 courses are: ENG
2			d graduation.	101 and a minimum of 90 quarter (60 semester) units of college
5			n Writing Requirement (0-4 units)	credits. (Note: these 306 courses were previously numbered
ň		•	an be met by completing one of the following two	495.)
7	optior			2. Satisfactory completion of a designated examination. No credit is
			ompleting one of the following upper-division ex-	awarded for passing the examination. It may be necessary to
	-		g courses (4 units):	take additional units to meet minimum residency and graduation
		DUC 306.	Expository Writing for Education (4)	unit requirements.
		NG 306.	Expository Writing (4)	Students normally shall complete the upper-division writing re-
		IUM 306.	Expository Writing for the Humanities (4)	quirement by the end of the junior year. Further information about the
		1GMT 306.	Expository Writing for Administration (4)	examination (for example, how much it costs, when it is offered, what
		ISCI 306.	Expository Writing for the Natural Sciences (4)	it covers) is available from the Testing Office, Jack Brown Hall, Room
		SCI 306.	Expository Writing for the Social Sciences (4)	405, (909) 537-5045. Contact the Office of the Dean of Undergradu-
			iciency examination. (0 units)	ate Studies, University Hall, Room 368, (909) 537-5032 for questions
			s awarded for passing the examination. It may be	about the upper-division writing requirement itself.
			ake additional units to meet minimum residency	
		0	unit requirements.	History, Constitution, Government Requirement
			Gender Requirement Category	Each student must demonstrate competence in understanding
			ust take one upper-division course designated as	the Constitution of the United States; American history, institutions
			equirement. The multicultural/gender requirement	and ideals; and the principles of state and local government as estab-
		•	completing one of the following two options:	lished in California.
			stone course in one of the three breadth areas	The requirement in the U.S. Constitution may be met by complet-
		categories B5		ing one of the following: HIST 146, 200 and 201, or 540, PSCI 203,
		IUM 325. IUM 335.	Perspectives on Gender (4)	410 or 411.
	п	10101 3355.	The Origin and Contemporary Role of Latino Culture (4)	The requirement in U.S. history may be met by completing one of
	ц	IUM 350.	The Cultures of American Childhood (4)	the following: HIST 146, 200, 201, 540, or PSCI 314. The requirement in state and local government as established in
		IUM 370.	African Heritage in the Arts (4)	California may be met by completing one of the following: HIST 270
		IUM 375.	The World of Islam (4)	or 370 or PSCI 203, 330 or 332.
		IUM 380.	Comparative Studies in the Arts: East and	Note: HIST 540 and PSCI 314 cannot be used to meet the
		000.	West (4)	General Education (D1) American History and Civiliza-
	N	ISCI 325.	Perspectives on Gender (4)	tion requirement.
		SCI 316.	Race and Racism (4)	Students should note that General Education credit is granted for
		SCI 325.	Perspectives on Gender (4)	HIST 146, 200, 201 and PSCI 203 only.
		SCI 350.	Roots of Modern Racism in America (4)	A student can meet the entire U.S. Constitution, U.S. history, and
			ision course from the following:	California state and local government requirement, while fulfilling
		NTH 325.	Human Biological Variation and the Concept of	general education requirements, by taking PSCI 203 and one of the
			Race (4)	following: HIST 146, or 200 and 201. The opportunity to meet the re-
	A	NTH 333.	Sex and Gender in Cross-Cultural	quirements by passing an optional examination, which may be re-
			Perspective (4)	peated once (not in the same quarter), is given to students. However,
	С	OMM 304.	Intercultural Communication (4)	if this requirement is met by examination, students must still complete
	С	OMM 401.	Gender, Race and Media (4)	16 lower-division units in the Social and Behavioral Sciences breadth
	С	JUS 451.	Women and Crime (4)	area (category D). Information may be obtained from either the Office
	E	CON 352.	Political Economy of Poverty and	of Records, Registration and Evaluations or the College of Social and
			Discrimination (4)	Behavioral Sciences Office. The examinations are administered
		NG 314.	American Indian Literature (4)	through the Testing Office.
		IUM 460.	Cultural Studies (4)	
		1US 308.	Women in Music (4)	
		1US 350.	Music of World Cultures (4)	
	P	A 305.	Organizations in Multicultural and Diverse	
			Societies (4)	
		'HIL 364.	Philosophy of Race and Ethnicity (4)	
		HIL 367.	Gender and Philosophy (4)	
		A 462.	African-American Theatre and Drama (4)	
	- T.	A 463.	Asian Theatre (4)	
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ACCOUNTING

Department of Accounting and Finance

Jack Brown Hall, Room 459 (909) 537-5704 http://www.acf.csusb.edu/

FACULTY: Frank Bensen (Emeritus), Otto Chang, Janet Courts, John Dorocak, Linvol Henry (Emeritus), Sung-Kyoo Huh, Richard Lillie, Steven Mintz (Emeritus), Claire Purvis, Richard Savich, Christine Schalow, John Scribner (Emeritus), Hossein Shalchi (Emeritus)

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 69. The Master of Business Administration can be found on Page 343. 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. Prerequisites: ACCT 211, INFO 102 and 103. (4 units)

Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 90 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 102, 103 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. Prerequisite: ACCT 212. (4 units)

372. Intermediate Accounting

First of a three-course sequence covering an in-depth study of financial accounting. Coverage includes the conceptual framework underlying financial accounting, the application of Generally Accepted Accounting Principles (GAAP) applicable to the preparation of financial statements, accounting for cash, receivables and inventories. The accounting cycle and time value of money will also be reviewed. 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)

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)

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. 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)

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503. Financial Accounting

Intensive introduction to applied topics and techniques in financial accounting. Development of accounting information according to U.S. GAAP for external reporting purposes. Economic and financial analysis of financial statements. 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)

536. Corporate and Partnership Taxation

The basic concepts of the federal income taxation of corporations and partnerships. Formerly ACCT 436. Prerequisite: ACCT 426 with a grade of "C" or better, or consent of instructor. (4 units)

539. 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. Formerly ACCT 439. Prerequisite: ACCT 373. (4 units)

556. Estates and Gifts and other Specialized Taxation Topics

Taxation topics not covered in depth in ACCT 426 and 536, 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. Formerly ACCT 456. Prerequisite: ACCT 426 with a grade of "C" or better, or consent of instructor. (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)

574. Reporting Issues in Intermediate Accounting

Study of revenue recognition, deferred taxes, pensions and leases. Formerly ACCT 374. Prerequisite: ACCT 372 with a grade of "C" or better. (4 units)

575. Internship in Accounting

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (2 or 4 units)

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ADMINISTRATION

Accredited by AACSB International, the Association to Advance Collegiate Schools of Business

College of Business and Public Administration

Jack Brown Hall, Room 278 (909) 537-5700 http://www.cbpa.csusb.edu/

Bachelor of Arts

Administration with concentrations in: Business Economics Entrepreneurial Management Environmental Management Finance Information Management Marketing Public Administration Real Estate Supply Chain Management Transportation and Logistics

Bachelor of Science

Administration with concentrations in: Accounting Accounting Information Systems Finance Financial Planning Information Assurance and Security Management Information Management International Business Marketing Real Estate

Minor

Accounting Business Administration Business Information Mapping Environmental Management Finance Human Resources Management Information Management Marketing Public Administration Real Estate Sports Management Supply Chain Management

Master of Business Administration

(Degree requirements can be found on Page 343.)

Master of Public Administration

(Degree requirements can be found on Page 466.)

Certificate Programs

Accounting

- Environmental Management
- Human Resources Information Systems Management
- Sports Management
- Supply Chain 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 90 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 61, 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 102. Introduction to Information Technology (2)
- 6. INFO 103. Using Information Technology Applications (2)
- 7. MGMT 230. Business Law (4)
- 8. SCM 210. Applied Business Statistics (4)
- 9. 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)

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- 4. Four units chosen from:
 - MGMT 302. Management and Organizational Behavior (4)
- PSYC 302. Management and Organizational Behavior (4)
- Legal Environment of Business (4) 5. MGMT 330.
- MGMT 490. Strategic Management (4) 6.
- Marketing Principles (4) 7. MKTG 305.
- Government-Business Relations (4) PA 315. 8.
- 9. SCM 304. Principles of Supply Chain Management (4)
- Public Administration students should 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:

The concentration electives should be chosen from the Note: 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 (26 units)

- 1. ECON 322. Managerial Economics (4)
- 2. ECON 335. Economic Analysis with Microcomputers (5)
- ECON 372. Business Cycles (5) 3.
- 4. Twelve units chosen from:

	ECON 333.	Political Economy of Women: Money, Sex, Race,
		and Power (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)
	SCM 350.	Applied Decision Analysis (4)
	SCM 470.	Supply Chain Management (4)
En	trepreneurial N	Ianagement Concentration (24 units)
1.	MGMT 442.	Small Business Management (4)
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- 2. Entrepreneurial Opportunity Analysis (4) MGMT 543.
- MGMT 545. Entrepreneurial Resource Requirements (4) 3.
- MGMT 549. Launching the Entrepreneurial Venture (4) 4.
- 5. Four units chosen from:
 - MGMT 515. Small Business Consulting (4)
 - Strategic Entrepreneurship (4) MKTG 530.
- 6. Four units chosen from:

- ACCT 315. Accounting Information Systems (4)
- Introduction to Taxation (4) ACCT 426.
- Corporate and Partnership Taxation (4) ACCT 536.
- MGMT 455. Human Resources Management (4)
- MGMT 541. Commercializing Entrepreneurial Innovation (4)
- Managing a Growing Business (4) MGMT 547.
- MGMT 575. Internship in Management (4)
- MKTG 460. Retailing (4) Integrated Marketing Communication (4) MKTG 520.
- **Environmental Management Concentration (24 units)**
- 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)
- Eight units chosen from: 5. ECON 360. Economics of the Environment (4) GEOG 350. Conservation and Natural Resources (4) HSCI 352. Principles of Environmental Health (4) HSCI 451. Principles of Epidemiology (4)

Finance Concentration (24 units)

- Financial Theory and Practice (4) FIN 430. 1.
- Financial Institutions and Capital Formation (4) 2. FIN 432.
- FIN 433. International Business Finance (4) 3.
- FIN 435. Investment Analysis (4) 4.
- FIN 445. Financial Analysis and Decision-Making (4) 5.
- 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 536.	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)
	SCM 350.	Applied Decision Analysis (4)

Information Management Concentration (24 units)

- 1. Eight units of electives chosen from any 100- or 200-level INFO courses.
- INFO 372. 2 Information Technology (4)
- Information Problem Solving and Risk 3. INFO 378. Management (4)
- Information Systems Planning and Policy (4) 4. INFO 490.
- 5. Four units of electives chosen from any 300-, 400- and 500-level INFO courses.

Management Concentration (24 units)

1.

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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 (2 or 4) for a total
	of (4)
Eight units ch	osen from one of the speciality areas listed below:
Management	Speciality Area

- MGMT 402. Studies in Organizational Behavior (4)
- MGMT 405. International Management (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)
- Internship in Management (4) MGMT 575.
- 3. MGMT 998. Management Portfolio Assessment (0)

Marketing Concentration (24 units)

- 1. MKTG 410. Consumer Behavior (4)
- MKTG 416. Marketing Research (4) 2.
- Marketing Decision-Making (4) 3. MKTG 436.
- 4. MKTG 496. Marketing Planning and Strategy (4)

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5.	Four units cho	sen from:
	MKTG 420.	Advertising (4)
	MKTG 430.	Professional Selling and Sales Management (4)
6.	Four units of 4	00- or 500-level MKTG courses chosen from:
	MKTG 415.	Product Management (4)
	MKTG 420.	Advertising (4) (if not taken in category 5)
	MKTG 430.	Professional Selling and Sales Management (4)
	MILLIO 400.	(if not taken in category 5)
	MKTG 438.	Industrial Marketing (4)
	MKTG 446.	Advertising Campaign (4)
	MKTG 450.	Logistics (4)
	MKTG 460.	Retailing (4)
	MKTG 462	Merchandising (4)
	MKTG 470.	International Marketing Management (4)
	MKTG 520.	Integrated Marketing Communication (4)
	MKTG 525.	Sports and Entertainment Marketing (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)
Pul	blic Administra	ation Concentration (24 units)
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 cho	
0.	PA 305.	Organizations in Multicultural and Diverse
	171000.	Societies (4)
	PA 514.	Management of Private Nonprofit
	17/014.	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
	I A 300.	Organizations (4)
	DA 575	0
	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)
Rea	al Estate Conc	entration (24 units)
4	EINI 200	Principles of Real Estate (A)

- Principles of Real Estate (4) FIN 380. 2. FIN 432. Financial Institutions and Capital Formation (4)
- 3. FIN 480. Real Estate Appraisal (4)
- 4. Four units chosen from:
 - FIN 481. Real Estate Practice (4)
 - FIN 485. Legal Aspects of Real Estate (4)
- 5. FIN 585. Real Estate Finance (4)

6.	Four units cho	sen 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 536.	Corporate and Partnership Taxation (4)
	ECON 410.	Money and Banking (4)
	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 481.	Real Estate Practice (4) (if not taken previously)
	FIN 485.	Legal Aspects of Real Estate (4) (if not taken
		previously)
	FIN 523.	Security Trading and Analysis (4)
	FIN 575.	Internship in Finance (4)
	MKTG 430.	Professional Selling and Sales Management (4)
Su	pply Chain Ma	nagement Concentration (24 units)

- 1. SCM 205. Enterprise Systems (4)
- 2. SCM 350. Applied Decision Analysis (4)
- Supply Chain Management (4) 3. SCM 470.
- 4. SCM 480. Quality Management (4)
- Logistics Strategy (4) 5. SCM 490.
- 6. Four units chosen from:
 - Information Mapping and Data Visualization (4) INFO 280. INFO 477. Decision Support Systems (4) SCM 405. Advanced Enterprise Systems (4)
 - SCM 575. Internship in Supply Chain Management (4)
 - SCM 595. Independent Study (4)

Transportation and Logistics Concentration (24 units)

- 1. MGMT 307. Introduction to Transportation Management (4)
- 2. MGMT 450. Logistics Management and Regulation (4)
- 3. SCM 440. Transportation Systems Management (4)
- 4. SCM 470. Supply Chain Management (4)
- SCM 490. 5. Logistics Strategy (4)
- 6. Four units chosen from:
 - INFO 280. Information Mapping and Data Visualization (4) SCM 205. Enterprise Systems (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 102.	Introduction to Information Technology (2)
6.	INFO 103.	Using Information Technology Applications (2)
7.	MGMT 230.	Business Law (4)
8.	SCM 210.	Applied Business Statistics (4)
9.	Four units cho	sen from (also meets the General Education
	requirement c	ategory 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)

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Upper-division core requirements (36 units)	
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- 1. FIN 313. **Business Finance (4)**
- Corporate Financial Management (4) 2. FIN 314.
- 3. INFO 309. Information Management (4)
- 4. Four units chosen from:
- Management and Organizational Behavior (4) MGMT 302.
- PSYC 302. Management and Organizational Behavior (4)
- Legal Environment of Business (4) 5. MGMT 330.
- Strategic Management (4) 6. MGMT 490.
- 7. MKTG 305. Marketing Principles (4)
- 8. PA 315. Government-Business Relations (4)
- Principles of Supply Chain Management (4) 9. SCM 304.

Concentration (44 units)

Choose one concentration from the following:

The concentration electives should be chosen from the Note: 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 t	to be chosen from the following (in consultation with
	advisor):	
	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 536.	Corporate and Partnership Taxation (4)
	ACCT 539.	Advanced Accounting (4)
	ACCT 556.	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 574.	Reporting Issues in Intermediate Accounting (4)

- ACCT 575. Internship in Accounting (4)
- Seminar in Accounting (4) ACCT 590.
- ACCT 595. Independent Study (2 or 4)

Accounting Information Systems Concentration

- 1. ACCT 315. Accounting Information Systems (4) ACCT 347. Management Accounting and Decision 2. Making (4) Intermediate Accounting (4) 3. ACCT 372. 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)
- Computer Science II (4) 8. CSCI 202.
- Twelve units chosen from: 9.
- Data Structures (4) CSCI 330.
- Software Engineering (4) CSCI 455.
- INFO 274. Data Base Management and Policies (4)

INFO 275.	Information Networking and Security (4)
INFO 276.	Systems Analysis and Design (4)
INFO 372.	Information Technology (4)
INFO 474.	Advanced Data Base Management and
	Information Assurance (4)
INFO 475.	Advanced Information Networking and
	Security (4)
INFO 476.	Advanced Systems Analysis and Design (4)

Finance Concentration

- 1. Four units chosen from:
- Financial Planning Process and Insurance (4) FIN 360. FIN 380. Principles of Real Estate (4)
- 2. FIN 430. Financial Theory and Practice (4)
- Financial Institutions and Capital Formation (4) 3. FIN 432.
- International Business Finance (4) 4. FIN 433.
- FIN 435. Investment Analysis (4) 5.
- Financial Analysis and Decision-Making (4) FIN 445. 6.
- Twenty units of electives chosen from: 7.
 - ACCT 372. Intermediate Accounting (4)
 - ACCT 373. Problem Areas in Intermediate Accounting (4)
 - ACCT 426. Introduction to Taxation (4)
 - ACCT 447. Cost Accounting (4)
 - Corporate and Partnership Taxation (4) ACCT 536.
 - ACCT 556. Estates and Gifts and other Specialized
 - Taxation Topics (4)
 - ECON 410. Money and Banking (4)
 - ECON 475. Public Finance (4) Financial Planning Process and Insurance (if not FIN 360.
 - taken previously) (4) FIN 380. Principles of Real Estate (if not taken previously) (4)
 - FIN 480. Real Estate Appraisal (4)
 - FIN 523. Security Trading and Analysis (4)
 - Export-Import Financing (4) FIN 534.
 - Internship in Finance (4) FIN 575.
 - FIN 585. Real Estate Finance (4)
 - Seminar in Finance (4) FIN 590.
 - MGMT 442. Small Business Management (4)
 - SCM 350. Applied Decision Analysis (4) Students interested in taking the CFP examination Note: should take the following as their electives: ACCT 426, 536, 556 and FIN 360.

Financial Planning Concentration

1. ACCT 426. Introduction to Taxation (4) ACCT 556. Estates and Gifts and Other Specialized 2. Taxation Topics (4) Financial Planning Process and Insurance (4) 3. FIN 360. 4. FIN 430. Financial Theory and Practice (4) FIN 435. 5. Investment Analysis (4) Retirement Planning (4) 6. FIN 460. 7. Twenty units chosen from: ACCT 536. Corporate and Partnership Taxation (4) FIN 380. Principles of Real Estate (4) FIN 433. International Business Finance (4) FIN 445. Financial Analysis and Decision-Making (4) Security Trading and Analysis (4) FIN 523. FIN 585. Real Estate Finance (4) Small Business Management (4) MGMT 442. MKTG 430. Professional Selling and Sales Management (4) Information Assurance and Security Management

Concentration

- 1. INFO 274. Data Base Management and Policies (4)
- 2. INFO 275. Information Networking and Security (4)

3.	INF	O 276.	Systems Analysis and Design (4)	
4.		0 372 .	Information Technology (4)	
5.	INF	O 378.	Information Problem Solving and Risk Management (4)	
6.	INF	O 474.	Advanced Data Base Management and	
7.	INF	O 475.	Information Assurance (4) Advanced Information Networking and	
8.		O 490.	Security (4) Information Systems Planning and Policy (4)	
9.	INF	O 511.	Information Assurance and Security (4)	
10.			osen from any Information Management or Com- major courses, HSCI 437, or CJUS 550.	
Info			gement Concentration	
1.		O 274.	Data Base Management and Policies (4)	
2.	INF	O 275.	Information Networking and Security (4)	
3.		O 490.	Information Systems Planning and Policy (4)	
4.		ty-two units	s chosen from one of the following three	
		-	ormation Systems Speciality Area	
	1.	INFO 276.		
		INFO 372.		
	3.	INFO 378.	Information Problem Solving and Risk	
	4		Management (4)	
	4.	INFO 474.	Advanced Data Base Management and Information Assurance (4)	
	5.	INFO 475.		
			Security (4)	
	6. 7	INFO 476.		
	7.	-	chosen from any INFO or CSCI major courses.	
			peciality Area	
	1. 2.	INFO 150. INFO 285.	5()	
	3.	INFO 474.		
			Information Assurance (4)	
		INFO 485.		
	5. 6.	MKTG 540). E-Marketing (4) its chosen from:	
	0.	ACCT 372		
		ACCT 373	u ()	
			Accounting (4)	
		INFO 283. INFO 372.		
		INFO 378.		
			Management (4)	
		INFO 475.		
		SCM 470.	Security (4) Supply Chain Management (4)	
	Info		lanagement Speciality Area	
	1.	INFO 372.		
	2.	INFO 378.	Information Problem Solving and Risk	
	3.	Twenty-for	Management (4) ar units chosen from any INFO courses (16 units	
	υ.		om 300-, 400- and 500-level courses).	
Inte	nternational Business Concentration			
1.	FIN	433.	International Business Finance (4)	

- MGMT 405. International Management (4) 2.
- 3. MGMT 406. International Business Law (4)
- MKTG 470. International Marketing Management (4) 4.
- Four units chosen from: 5.
- ECON 430. International Economics (4)
 - ECON 435. Multinational Corporations (4)

6. Twelve units in the same language chosen from the following categories:

oai	cyones.	
Α.	FREN 202.	Conversation and Composition II (4)
	FREN 309.	French for Translators (4)
	FREN 350.	Advanced French Composition (4)
В.	GER 214.	Conversation (4)
	GER 309.	Advanced German Composition (4)
	GER 312.	Business German (4)
C.	SPAN 212.	Composition (4)
	SPAN 213.	Composition for Heritage/Native
		Speakers (4)
	SPAN 302.	Theory and Practice in Composition (4)
	SPAN 314.	Advanced Conversation (4)
No	te: Students may	receive credit for only one from SPAN 212

- Note: Students may receive credit for only one from SPAN 212 or SPAN 213.
- D. Twelve units of upper-division course work in the same language other than French, German, or Spanish.
- Students may have any or all of the above listed foreign Note: 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 World 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)
	MGMT 407.	Comparative Management Systems of the Americas (4)
	MGMT 520.	Legal Regulation of Intellectual Property (4)
	MKTG 572.	Import-Export Management (4)
Ма	rketing Conce	entration
1.	MKTG 410.	Consumer Behavior (4)
2.	MKTG 416.	Marketing Research (4)
~		

- 2. Advertising (4) 3. MKTG 420.
- MKTG 430. Professional Selling and Sales Management (4) 4.
- 5. MKTG 436. Marketing Decision-Making (4)
- MKTG 450. Logistics (4) 6.
- Marketing Planning and Strategy (4) 7. MKTG 496.
- 8. Sixteen units chosen from:
 - MKTG 415. Product Management (4)
 - MKTG 438. Industrial Marketing (4)
 - MKTG 446. Advertising Campaign (4)
 - MKTG 460. Retailing (4)
 - Merchandising (4) MKTG 462.
 - MKTG 470. International Marketing Management (4)
 - Integrated Marketing Communication (4) MKTG 520.
 - Sports and Entertainment Marketing (4) MKTG 525.
 - MKTG 530. Strategic Entrepreneurship (4)
 - MKTG 540. E-Marketing (4)
 - MKTG 560. Services Marketing (4)
 - Import-Export Management (4) MKTG 572.
 - Internship in Marketing (4) MKTG 575.
 - Seminar in Marketing (4) MKTG 590.
 - MKTG 595D. Independent Study (4)

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Real Estate Concentration

1.0			
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 che	osen from:	
	FIN 481.	Real Estate Practice (4)	
	FIN 485.	Legal 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 536.	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 481.	Real Estate Practice (4) (if not taken as a	
		required course)	
	FIN 485.	Legal Aspects of Real Estate (4) (if not taken as	
		a required course)	
	FIN 523.	Security Trading and Analysis (4)	
	FIN 575.	Internship in Finance (4)	
	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)
Up	per-division red	quirements (20 units)
1.	ACCT 372.	Intermediate Accounting (4)
2.	Sixteen units	chosen from:
	ACCT 315.	Accounting Information Systems (4)

ACCT 315.	Accounting information systems (4)
ACCT 347.	Management Accounting and Decision
	Making (4)
ACCT 373.	Problem Areas in Intermediate Accounting (4)
ACCT 426.	Introduction to Taxation (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 536.	Corporate and Partnership Taxation (4)
ACCT 539.	Advanced Accounting (4)
ACCT 556.	Estates and Gifts and other Specialized
	Taxation Topics (4)
ACCT 568.	Accounting for Government and Not-for-Profit
	Organizations (4)
ACOT 574	Description has a failed on a list of Association (A

ACCT 574. Reporting Issues in Intermediate Accounting (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)
- Twenty units of which nine units must be upper-division, usually from one area (i.e., accounting, economics, finance, information management, management, marketing, or supply chain 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 102. Introduction to Information Technology (2) 2. INFO 103. Using Information Technology Applications (2) INFO 280. Information Mapping and Data Visualization (4) 3. 4. INFO 309. Information Management (4) 5. INFO 480. Advanced Information Mapping and Visualization (4) 6. Technical Area Eight units chosen from: Data Base Management and Policies (4) INFO 274. INFO 282. Business Systems I (4) INFO 477. Decision Support Systems (4) Marketing Research (4) MKTG 416. MKTG 450. Logistics (4) Applied Decision Analysis (4) SCM 350. 7. 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 and Risk Management (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 ENVIRONMENTAL MANAGEMENT Requirements (30 units)

Requirements for a minor in Environmental Management:

Lower-division requirements (10 units)

- 1. BIOL 100. Topics in Biology (5)
- Five units chosen from: GEOG 103. Physical Geography (5)
- GEOL 101. Introductory Geology (5)

Upper-division requirements (16 units)

- 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)

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Electives (4 units)

1.	Four units chosen from:		
	GEOG 350.	Conservation and Natural Resources (4)	
	MGMT 335.	Business and Society (4)	
	MGMT 405.	International Management (4)	
	PA 472.	Administration Law (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)
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- 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)
- Human Resources Management (4) 2. MGMT 455.
- 3. MGMT 456. Psychology of Human Resources (4)
- Industrial and Labor Relations (4) 4. MGMT 457.
- 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)

- Introduction to Information Technology (2) 1. INFO 102.
- Using Information Technology Applications (2) 2 INFO 103. Eight units chosen from any INFO 100- and 200-level 3.
- 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 MANAGEMENT

Requirements (28 units)

Requirements for a minor in Management:

Lower-division requirements (8 units)

- Introduction to Business and Public 1. MGMT 100. Administration (4)
- 2. MGMT 230. Business Law (4)

Upper-division requirements (20 units)

- Management and Organizational Behavior (4) 1. MGMT 302.
- MGMT 330. Legal Environment of Business (4)
- Twelve units chosen from any MGMT 300-, 400- and 500-level 3. courses.

MINOR IN MARKETING

Requirements (24 units)

Requirements for a minor in Marketing:

	quinerne	ier a marier in mariering.
1.	MKTG 305.	
2.	MKTG 410.	Consumer Behavior (4)
3.	Sixteen units of	
	MKTG 415.	Product Management (4)
	MKTG 416.	Marketing Research (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 450.	Logistics (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 525.	Sports and Entertainment Marketing (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 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)
- Four units chosen from: 2
- MGMT 302. Management and Organizational Behavior (4) PSYC 302. Management and Organizational Behavior (4) Four units chosen from: 3.
- PA 380. Introduction to Public Administration (4) PSCI 380. Introduction to Public Administration (4)
 - PA 462. Public Personnel Administration (4)
- 4. 5. PA 463. Governmental Budgeting (4)
- 6. 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)

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3.	FIN 380.	Principles of Real Estate (4)
4.	Eight units cho	osen from:
	FIN 432.	Financial Institutions and Capital Formation (4)
	FIN 480.	Real Estate Appraisal (4)
	FIN 481.	Real Estate Practice (4) if not taken previously
	FIN 485.	Legal Aspects of Real Estate (4)
	FIN 585.	Real Estate Finance (4) if not taken previously

MINOR IN SPORTS MANAGEMENT

Requirements (28 units)

Requirements for a minor in Sports Management:

Lower-division requirement (16 units)

- 1. MGMT 531. Sports Management (4)
- 2. MGMT 533. Sports and Hospitality Business Law (4)
- 3. MGMT 575. Internship in Management (4)
- 4. MKTG 525. Sports and Entertainment Marketing (4)
- Electives (12 units)

1.	Twelve units c	hosen from:
	INFO 378.	Information Problem Solving and Risk
		Management (4)
	MGMT 335.	Business and Society (4)
	MGMT 350.	Administrative Communication (4)
	MGMT 451.	Organization and Management Theory (4)
	MGMT 455.	Human Resources Management (4)
	SCM 350.	Applied Decision Analysis (4)

MINOR IN SUPPLY CHAIN MANAGEMENT Requirements (28 units)

Requirements for a minor in Supply Chain Management:

Lower-division requirement (8 units)

- 1. SCM 205. Enterprise Systems (4)
- 2. SCM 210. Applied Business Statistics (4)

Upper-division requirements (20 units)

- 1. SCM 304. Principles of Supply Chain Management (4)
- 2. SCM 350. Applied Decision Analysis (4)
- 3. SCM 470. Supply Chain Management (4)
- 4. SCM 480. Quality Management (4)
- 5. SCM 490. Logistics Strategy (4)

DEPARTMENTAL HONORS

Students majoring in administration are eligible to receive departmental honors if the following conditions are met:

- 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 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 accounting; 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. See Page 55 for additional certificate information.

Accounting Certificate

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Certificate Requirements (36 units)

- 1. ACCT 211. Introductory Accounting I (4)
- 2. ACCT 212. Introductory Accounting II (4)
 - Note: Students may substitute the following course for ACCT 211 and 212:
 - ACCT 503. Financial Accounting (4)
 - ACCT 315. Accounting Information Systems (4)
- 4. ACCT 347. Management Accounting and Decision Making (4)
- 5. ACCT 372. Intermediate Accounting (4)
- 6. ACCT 373. Problem Areas in Intermediate Accounting (4)
- 7. ACCT 426. Introduction to Taxation (4)
- 8. ACCT 440. Financial Statement Auditing (4)
- 9. Four units chosen in consultation with an advisor from:
- ACCT 441. EDP Auditing and Control (4)
- ACCT 442. Internal and Operational Auditing (4)
- ACCT 444. Accounting Law, Ethics, and Institutions (4)
- ACCT 536. Corporate and Partnership Taxation (4)
- ACCT 539. Advanced Accounting (4)
- ACCT 556. Estates and Gifts and other Specialized Taxation Topics (4)
- ACCT 568. Accounting for Government and Not-for-Profit Organizations (4)
- ACCT 574. Reporting Issues in Intermediate Accounting (4)
- ACCT 590. Seminar in Accounting (4)

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Environmental Management Certificate

Certificate Requirements (30 units)

Lower-division requirements (10 units)

- 1. BIOL 100. Topics in Biology (5)
- Five units chosen from: GEOG 103. Physical Geography (5) GEOL 101. Introductory Geology (5)
- Upper-division requirements (16 units)
- 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)

Electives (4 units)

1. Four units chosen from:

GEOG 350.	Conservation and Natural Resources (4)
MGMT 335.	Business and Society (4)
MGMT 405.	International Management (4)
PA 472.	Administration Law (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 102. Introduction to Information Technology (2)
- 2. INFO 103. Using Information Technology Applications (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.

Sports Management Certificate

Certificate Requirements (28 units)

Lower-division requirements (16 units)

- 1. MGMT 531. Sports Management (4)
- 2. MGMT 533. Sports and Hospitality Business Law (4)
- 3. MGMT 575. Internship in Management (4)
- 4. MKTG 525. Sports and Entertainment Marketing (4)

Electives (12 units)

1

1.	. Twelve units chosen from:		
	INFO 378.	Information Problem Solving and Risk	
		Management (4)	
	MGMT 335.	Business and Society (4)	
	MGMT 350.	Administrative Communications (4)	
	MGMT 451.	Organization and Management Theory (4)	
	MGMT 455.	Human Resources Management (4)	
	SCM 350.	Applied Decision Analysis (4)	

Supply Chain Management Certificate

Certificate Requirements (32 units)

1.	SCM 205.	Enterprise Systems (4)
2.	SCM 210.	Applied Business Statistics (4)
3.	SCM 304.	Principles of Supply Chain Management (4)
4.	SCM 350.	Applied Decision Analysis (4)
5.	SCM 470.	Supply Chain Management (4)
6.	SCM 480.	Quality Management (4)
7.	SCM 490.	Logistics Strategy (4)
8.	Four units chosen from:	
	INFO 477.	Decision Support Systems (4)
	SCM 405.	Advanced Enterprise Systems (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 (909) 537-5440 http://afrotc.csusb.edu/ Aerospace Studies Program

FACULTY: Lt Col David Gool, Capt Andrew Huffman

Air Force Reserve Officer Training Corps (AFROTC) is a program designed to commission college students as second lieutenants in the active duty Air Force or Air Force Reserve. 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.	The Development of Air Power III (1)	
Field Training			
۸ £	A four week, non-prodit course conducted at on Air Force base		

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
0.	AG 402.	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	S 090.	Leadership Laboratory (0) (required every quarter)
2. AS	S 301.	Air Force Leadership and Management I (3)
3. AS	S 302.	Air Force Leadership and Management II (3)
4. AS	S 303.	Air Force Leadership and Management III (3)
5. AS	S 401.	National Security Forces in Contemporary
		American Society I (3)
6. AS	S 402.	National Security Forces in Contemporary
		American Society II (3)
7. AS	S 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. Graded credit/no credit (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. The Development of Air Power III

In-depth discussion of values and public expectations as they relate to military officers. (1 unit)

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Upper Division

301. Air Force Leadership and Management I

Principles and functions of management and leadership. (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)

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AMERICAN STUDIES

College of Arts and Letters

University Hall, Room 237 (909) 537-5800 http://cal.csusb.edu/

Bachelor of Arts

American Studies

COORDINATOR: Risa Dickson

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 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 degree 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. Contact the College of Arts and Letterset for more information on this degree 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 137.

B.A. IN AMERICAN STUDIES Requirements (84 units) Total units required for graduation: 180

Total units required for graduation.

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 in more than one category.

Requirements for the B.A. in American Studies:

Upper-division requirements (72 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: Stude	ents may receive credit for only one of the
	follow	
	ANT	H 323. Native North American Art
	ART	323. Native North American Art
C.		d Social Contexts (24 units)
1.	Historical Peri	
	Twelve units c	
	HIST 350.	The American Colonies, 1607-1783 (4)
	HIST 351.	The Evolution of American Democracy, 1783-
	HIST 354.	1840 (4) Civil War and Reconstruction (4)
	HIST 354. HIST 356.	The United States, 1877-1917 (4)
	HIST 350.	The United States, 1917-1917 (4)
	HIST 359.	The United States Since 1945 (4)
2.	Social Contex	
		hosen from one of the following groups:
	Economics	
	ECON 333.	Political Economy of Women: Money, Sex,
		Race, and Power (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)
	ANTH 305.	Minorities in America
	ANTH 305. ANTH 323.	North American Prehistory (4) Native North American Art (4)
	ANTH 323. ANTH 351.	Indians of North America (4)
	ART 323.	Native North American Art (4)
	ECON 333.	Political Economy of Women: Money, Sex,
	20011000	Race, and Power (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. Note: Stude	Sociology of Gender (4) ents may receive credit for only one of the following
		may apply that credit in either the American Arts
	Cate	gory or the Historical and Social Contexts Catego-
		t not both:
		H 323. Native North American Art
		323. Native North American Art
	Political Thou	ıght
	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 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 342. The Politics of Environment (4)
- PSCI 410. American Constitutional Law (4)
- PSCI 411. The Bill of Rights (4)
- PSCI 530. Studies in Political Theory: Liberalism (4)

D. American Literature (20 units)

- Four units chosen from: (Prerequisite to upper-division American Literature courses.)
 ENC 2014 Applying of Party (4)
 - ENG 301A. Analysis of Poetry (4)
 - ENG 302A. Analysis of Drama (4)
 - ENG 303A. Analysis of Prose Fiction (4)
 - ENG 304A. Analysis of Nonfiction Prose (4)
- TA 302A. Analysis of Drama (4) 2. Twelve units in periods as follows:
 - ENG 325. American Literature I (4)
 - ENG 326. American Literature II (4)
 - One other four-unit American Literature course as approved by

the coordinator.

- **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 an advisor) (4)
 - ENG 339. African American Literature (4)

E. American Themes Elective (4 units)

- 1. Four units chosen from group 1 or 2 below:
 - 1. Four additional upper-division units chosen from one of the groups in C1 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 advisor.

F. Capstone (4 units)

- I. 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 coordinator) (4)

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 325, 326 or 333; and consent of department. (4 units)

ANTHROPOLOGY

Department of Anthropology

Social and Behavioral Sciences Building, Room 327J (909) 537-5502 http://csbs.csusb.edu/anthro/

Bachelor of Arts

Anthropology

Minor

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Anthropology

Certificate Programs

Applied Cultural Anthropology Archaeology Latin American Studies **Museum Studies**

FACULTY: Russell Barber, Anne Bennett, Frances Berdan, Kathy Nadeau, Wesley Niewoehner, James Pierson (Emeritus), 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 20.

B.A. IN ANTHROPOLOGY

Requirements (62 units)

Total units required for graduation: 180

Requirements for the B.A. in Anthropology:

inc	qui cincina	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 200.	Biological Anthropology Laboratory (1)
4.	ANTH 500.	Great Ideas in Anthropology (4)
5.	Archaeology	
	Eight units cho	osen from:
	ANTH 300.	Archaeology (4)
	ANTH 302.	African Archaeology (4)
	ANTH 303.	Prehistory of the Middle East and Europe
	ANTH 305.	North American Prehistory (4)
	ANTH 306.	Aztecs, Maya and Their Predecessors (4)
	ANTH 307.	Incas and Their Predecessors (4)
	May choose o	nly one of the following two courses:
	ANTH 312	 Historical Archaeology (4)
	HIST 312.	Historical Archaeology (4)

(4)

ANTH 315. Archaeology of the Southwest and California (4)

	May choose of	nly one of the following two courses:
	ANTH 323	
	ART 323.	
		nly one of the following two courses:
	ANTH 324	
~	ART 324.	
6.	Biological Anth	
	Eight units cho	
	ANTH 325.	Human Biological Variation and the Concept of
		Race (4) Human Origins (4)
	ANTH 326. ANTH 327.	Primate Evolution and Ecology (4)
	ANTH 327.	Forensic Anthropology and Crime (4)
7	Laboratory Ana	
7.	Five units chose	
	ANTH 319.	Experimental Archaeology and
	/	Ethnoarchaeology (5)
	ANTH 320.	Archaeological Survey and Excavation (5)
	ANTH 321.	Archaeological Laboratory Analysis (5)
	ANTH 322.	Human Osteology and Functional Anatomy (5)
8.	Anthropology of	
	Eight units cho	
	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)
0	ANTH 365.	Asian-American Cultures (4)
9.	Anthropology t	of which at least eight units must be from 400-level
	courses, chose	
	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 334.	Anthropology and Film (4)
	ANTH 335.	Cross-Cultural Perspectives on Crime and
		Deviance (4)
		nly one of the following two courses:
	ANTH 375	
	HIST 375.	
		nly one of the following two courses:
		Exhibit Design (4)
		Exhibit Design (4)
	ANTH 466.	Anthropology of Health, Illness and Healing (4)
	ANTH 470.	Culture Change and Dynamics (4)
	ANTH 472. ANTH 475.	Colonial and Postcolonial Anthropology (4) Cultural Ecology (4)
	ANTH 475. ANTH 480.	Magic, Religion and Science (4)
	ANTH 480. ANTH 485.	Applied Anthropology and Social Policy (4)
	ANTH 492.	Economic Anthropology (4)
	ANTH 493.	Urban Anthropology (4)
10.	Linguistic Anth	
	Four units cho	
	ANTH 380.	Gender and Language (4)
	ANTH 388.	Language and Culture (4)
11.		I upper-division units in anthropology (may be from
	a related field	as approved by an advisor)

n yy (may a related field, as approved by an advisor).

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MINOR IN ANTHROPOLOGY

Requirements (28 units)

Requirements for a minor in Anthropology:

- Introduction to Anthropology: Human 1. ANTH 100. 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;
- An overall undergraduate grade point average of 3.0 ("B") or bet-3. ter:
- Successful completion of ANTH 597. Senior Honors Project, re-4. sulting 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. See Page 55 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)
 - Psychological Statistics (5) PSYC 210.
 - SCM 210. Applied Business Statistics (4)
 - Statistics for Social Sciences (4) SSCI 215.
- 3. ANTH 485. Applied Anthropology and Social Policy (4)
- ANTH 578. Internship in Applied Anthropology (2-5) for a 4. 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

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Ce	Certificate Requirements (35 units)		
1.	ANTH 300.	Archaeology (4)	
2.	Five units cho	osen from:	
	ANTH 320.	Archaeological Survey and Excavation (5)	
	ANTH 577.	Internship in Archaeology (5)	
3.	Five units cho	osen from:	
	ANTH 319.	Experimental Archaeology and	
		Ethnoarchaeology (5)	
	ANTH 321.	Archaeological Laboratory Analysis (5)	
4.	Eight units ch	osen 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)	
		only one of the following two courses:	
	ANTH 31	8, ()	
	HIST 312	······································	
	ANTH 315.	Archaeology of the Southwest and California (4)	
5.		Map Interpretation (4)	
6.	GEOG 202.	Introduction to Geographic Information Systems	
		and Mapping (5)	
7.		f four units chosen from:	
	GEOG 306.	Remote Sensing of Environment (4)	
	GEOG 308.	Advanced Geographic Information Systems (5)	
	GEOG 403.	Advanced Map Design (5)	
	GEOG 480.	Geomorphology (4)	
	GEOL 301.	Introduction to Geologic Mapping (4)	

- GEOL 330. Sedimentary Petrology (5)
- GEOL 350. Paleontology (5)

Certificate in Latin American Studies

Certificate Requirements (32 units)

1.	units may be t ANTH 306. ANTH 307. May choose o	Incas and Their Predecessors (4) nly one of the following two courses:
		 Pre-Columbian Art (4)
	ART 324.	
	ANTH 354.	
	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 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 440.	Mexican Literature (4)
	C	

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Се	Certificate in Museum Studies		
Certificate Requirements (34 units)			
1.	Four units chose ANTH 375.	sen from: Museum Methods (4)	
2.	HIST 375. Four units chose	Museum Methods (4)	
۷.	ANTH 376. HIST 376.	Exhibit Design (4) Exhibit Design (4)	
3. 4.	HIST 327. ANTH 576.	Museum and Archival Management (4) Internship in Museum Studies (2-5) for a total of (8)	
5. 6.	ART 345.	Gallery Management (2)	
0.		twelve units of electives, chosen from one of the groups of courses (A, B or C):	
	Group A	g. cupe ci couloce (i i, 2 ci c).	
	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)	
		nly one of the following two courses:	
	ANTH 312	· · · · · · · · · · · · · · · · · · ·	
	HIST 312.		
	ANTH 315.	Archaeology of the Southwest and California (4)	
	ANTH 320.	Archaeological Survey and Excavation (5)	
	ANTH 321.	Archaeological Laboratory Analysis (5)	
	May choose or	nly one of the following two courses:	
	ANTH 323	. Native North American Art (4)	
	ART 323.	Native North American Art (4)	
	May choose or	nly 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)	
	ANTH 362.	Peoples of Asia (4)	
	ANTH 365. ART 221.	Asian-American Cultures (4) Art History: Prehistoric Times through the	
	ANT 221.	Middle Ages (4)	
	ART 222.	Art History: Africa, Asia, the Americas and	
		Oceania (4)	
	ART 223.	Art History: Renaissance to the Present (4)	
	ART 306.	Greek and Roman 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 314.	Arts of the Ancient Near East and Egypt (4)	
	ART 321.	Renaissance Art (4)	
	-	nly one of the following two courses:	
	ANTH 323		
	ART 323.	Native North American Art (4)	
		nly one of the following two courses:	
	ANTH 324		
	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 423. Nineteenth Century European Art (4)
Any upper-division history course except HIST 327, 375, 376, 395, 396, 399, 575, 589 and 595.

COURSE OFFERINGS IN

ANTHROPOLOGY (ANTH)

Lower Division

100. Introduction to Anthropology: Human Evolution

Human biological and social evolution through time. (**GE**=D4) (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**=D4) (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**=D3) (4 units)

200. Biological Anthropology Laboratory

Human skeletal anatomy and skeletal biology (osteology and a forensics), reviews of the fossil evidence for primate and human evolution, and exercises in genetics. Three hours laboratory. Prerequisite or corequisite: ANTH 100. (1 unit)

Upper Division

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)

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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. Four hours lecture and three hours laboratory. 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. (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. (5 units)

322. Human Osteology and Functional Anatomy

The identification of human skeletal materials and an introduction to the relationship between form and function in the human skeleton. Four hours lecture and three hours laboratory. (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 Biological 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)

328. Forensic Anthropology and Crime

Techniques of biological anthropology as applied to the investigation of crime. (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. (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=G2) (4 units)

334. Anthropology and Film

Examines feature film from an anthropological perspective, and includes both domestic and international cinema. Topics may include the representation of indigenous peoples; the political-economic structures and social barriers negotiated in producing certain films; Orientalism in Western cinema; and regional cinemas. Formerly a topic under ANTH 390. (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)

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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. (Also offered as HIST 375. Students may not receive credit for both.) (4 units)

376. Exhibit Design

Examination of the theories and methods used in designing exhibits for museums, libraries, and historic houses, focusing on interpretation and exhibit creation. Some exhibits may be implemented in the Anthropology Museum. (Also offered as HIST 376. Students may not receive credit for both.) Field trips and completion of an exhibition brief are required. Prerequisite: consent of instructor. (4 units)

380. Gender and Language

Examines the role of language in the cultural construction of gender ideology, identities, and relations from both U.S. and cross-cultural contexts. Lexical, conversational, discursive, and narrative approaches are used. Formerly a topic under ANTH 390. (4 units)

388. Language and Culture

Analysis of languages stressing the relationship of language to patterns of human behavior. Formerly ANTH 460. (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)

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)

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. (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. (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. (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. (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)

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590. Selected Topics in Anthropology

An anthropological examination of a selected topic. May be repeated for credit as topics change. (4 units)

591. Selected Topics in Anthropology

An anthropological examination of a selected topic. May be repeated for credit as topics change. (2 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. (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 335.

ART

Accredited by the National Association of Schools of Art and Design

Department of Art

Visual Arts Center, Room 105

(909) 537-5802 http://cal.csusb.edu/Depts/Art/

Bachelor of Arts

- Art Plan I (Art Education)
- Art Plan II (Studio Art)
- Art Plan III (Art History)
- Art Plan IV (Graphic Design)
- Art Plan V (Graphic Design and Marketing)

Teaching Credential Program

Art - Plan I (Art Education)

Minor

Art History Graphic Design: Print Graphic Design: Web Studio Art

Certificate Program

Business Skills for the Artist

Master of Art

Art

(Degree requirements can be found on Page 336.)

FACULTY: Kurt Collins, Teresa Cotner, Richard Johnston, Sant Khalsa (Chair), George McGinnis, Thomas McGovern, 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 four options are available for a minor in art. The areas of concentration currently offered are: art history, art education, ceramics, glass, graphic design, graphic design and marketing, painting and drawing, photography, printmaking, sculpture, and woodworking and furniture design.

Each program provides a strong foundation in art history, theory and practice with the specialized instruction and experience necessary to be competitive and successful in a wide range of fields in art and design.

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, there are materials fees in every art course.

B.A. IN ART - PLAN I (Art Education)

Requirements (93 units)

Total units required for graduation: 180

This program is an approved single subject teaching credential preparation program in art, designed for students seeking a liberal education with an emphasis 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):

Α.	ART 420.	Art from 1900 to the Present (4)
	ART 520.	Contemporary Art, Theory and Criticism (4)
В.	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)
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- 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. Some courses listed require lower division prerequisites.)

Ceramics ART 355.

ART 355.	Ceramics	ll (5)
	<u> </u>	

- ART 357. Ceramics III (5) Graphic Design
- ART 320. Digital Image Editing (5)
- ART 320. Digital image Editing (5) ART 322. Web Design (5)
- ART 325. Advanced Digital Image Editing (5)

Painting

- ART 304. Advanced Drawing and Life Drawing (5)
- ART 336. Advanced Painting (5)

Photography

А

hotography (5)
hotography (5)

- ART 391. Intermediate Photography (5)
- ART 392. Advanced Photography (5)
- ART 394. Color Photography (5)
- ART 398. Documentary Photography (5)

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	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, Glass, Painting, Photography, Printmaking, 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 core courses totalling 33 units, woodworking specialization, 28 units)

1.	ART 120.	Introduction to Two Dimensional Design (4)	
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- 2. ART 121. Introduction to Three Dimensional Design (4)
- 3. ART 122. Introduction to Drawing and Life Drawing (4)
- ART 123. Introduction to Art and Technology (4) 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.
 - Five units chosen in the area of specialization:
 - ART 235. Painting I (5) ART 240. Sculpture I (5) Ceramics I (5) ART 254.
 - ART 260. Printmaking I (5)
 - Glass I: Beginning Glassblowing (5) ART 270.
 - ART 290. Photography I (5)

Upper-division requirements (42 units) including two art history courses, six studio courses in area of concentration, and two capstone courses

1. History of Art

Eight units consisting of one four-unit course chosen from each of the following (A and B):

- Art from 1900 to the Present (4) A. ART 420. ART 520. Contemporary Art, Theory and Criticism (4) B. ART 305. Women and Art (4) Greek and Roman Art (4) ART 306. 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 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)
	in a single area of specialization
Six five-unit cou	urses chosen from one of the following specializa-
tions: (Note: Ch	eck course descriptions to ascertain which cours-
es may be repe	eated for credit.)
Ceramics	
ART 355.	Ceramics II (5)

Mexican Art (4)

Ceramics III (5)

New Genres (5)

ART 328.

2.

ART 357.

ART 396.

Glass ART 370. Glass II: Advanced Beginning Glassblowing (5) ART 371. Glass Coldworking (5) Glass Kilnforming and Kilncasting (5) ART 372. ART 396. New Genres (5) ART 470. Glass III: Intermediate Glassblowing (5) Glass IV: Advanced Glassblowing (5) ART 471. Painting ART 304. Advanced Drawing and Life Drawing (5) ART 336. Advanced Painting (5) New Genres (5) ART 396. Photography Digital Photography (5) ART 386. ART 391. Intermediate Photography (5) ART 392. Advanced Photography (5) ART 393. Photographic Illustration and Design (5) ART 394. Color Photography (5) New Genres (5) ART 396. ART 398. Documentary Photography (5) Printmaking Printing Production (5) ART 313. ART 361. Printmaking II (5) ART 362. Printmaking III (5) Sculpture ART 341. Advanced Sculpture (5) ART 396. New Genres (5) Woodworking ART 368. Woodworking and Furniture Design I (5) ART 369. Advanced Woodworking and Furniture

- Design (5)
- 3. ART 415. Senior Seminar: Art and Society (2)

4. ART 416. Senior Project (2)

Studio Electives (15 units)

1. Three studio courses (totalling 15 units) from at least two different areas other than the concentration, with a minimum of one course at the 300- or 400-level, chosen from:

- ART 235. Painting I (5) ART 240. Sculpture I (5) ART 254. Ceramics I (5) Printmaking I (5) ART 260. ART 270. Glass I: Beginning Glassblowing (5) ART 290. Photography I (5) Advanced Drawing and Life Drawing (5) ART 304. ART 313. Printing Production (5) ART 320. Digital Image Editing (5)
- ART 322. Web Design (5)
- Advanced Digital Image Editing (5) ART 325.

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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 370.	Glass II: Advanced Beginning Glassblowing (5)
ART 371.	Glass Coldworking (5)
ART 372.	Glass Kilnforming and Kilncasting (5)
ART 386.	Digital Photography (5)
ART 391.	Intermediate Photography (5)
ART 392.	Advanced Photography (5)
ART 393.	Photographic Illustration and Design (5)
ART 394.	Color Photography (5)
ART 396.	New Genres (5) if not taken in area of
	specialization
ART 398.	Documentary Photography (5)
ART 470.	Glass III: Intermediate Glassblowing (5)

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)

- 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)

Upper-division requirements (42 units)

1. 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)
В.	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 420.	Art from 1900 to the Present (4)
	ART 423.	Nineteenth Century European Art (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)

2.	Upper-division	studio art courses (Note: Some courses listed	
	require lower division prerequisites.)		
	Two five-unit courses chosen from:		
	ART 304.	Advanced Drawing and Life Drawing (5)	
	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 370.	Glass II: Advanced Beginning Glassblowing (5)	
	ART 371.	Glass Coldworking (5)	
	ART 372.	Glass Kilnforming and Kilncasting (5)	
	ART 386.	Digital Photography (5)	
	ART 391.	Intermediate Photography (5)	
	ART 392.	Advanced Photography (5)	
	ART 393.	Photographic Illustration and Design (5)	
	ART 394.	Color Photography (5)	
	ART 396.	New Genres (5)	
	ART 398.	Documentary Photography (5)	
	ART 470.	Glass III: Intermediate Glassblowing (5)	

- 3. ART 415. Senior Seminar: Art and Society (2)
- 4. ART 416. Senior Project (2)
- 5. ART 525. Seminar in Art History (4)

Foreign language requirement (12 units)

 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 for electronic and print media.

Requirements for the B.A. in Art - Plan IV:

Lower-division requirements (nine courses totalling 36 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 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)

3.	ART 314. ART 316. ART 321. ART 323. ART 324. ART 327. ART 327. ART 329. ART 329. ART 359. ART 410. ART 420. ART 420. ART 420. ART 520. ART 525. ART 525. ART 525. ART 333. ART 342. ART 343.	The Art of Indigenous Peoples (4) Arts of the Ancient Near East and Egypt (4) Renaissance Art (4) Native North American Art (4) Pre-Columbian Art (4) Baroque and Rococo Art (4) Mexican Art (4) Chicano Art (4) History of Photography (4) Studies in Art History (4) Art from 1900 to the Present (4) Nineteenth Century European Art (4) Contemporary Art, Theory and Criticism (4) Seminar in Art History (4) History of Graphic Design (4) Graphic Design I (5)
	ART 344.	Graphic Design III (5)
6.		Graphic Design IV (5)
7.	ART 443.	Graphic Design V (5)
8.		o courses not in area of specialization (Some
		require lower division prerequisites.)
		courses chosen from:
	ART 304.	Advanced Drawing and Life Drawing (5)
	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. ART 330.	Interactive Multimedia Design (5) Animation and Web Motion-Graphics (5)
	ART 336.	Advanced Painting (5)
	ART 330. 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 370.	Glass II: Advanced Beginning Glassblowing (5)
	ART 371.	Glass Coldworking (5)
	ART 372.	Glass Kilnforming and Kilncasting (5)
	ART 386.	Digital Photography (5)
	ART 391.	Intermediate Photography (5)
	ART 392.	Advanced Photography (5)
	ART 393.	Photographic Illustration and Design (5)
	ART 394.	Color Photography (5)
	ART 396.	New Genres (5)
	ART 398.	Documentary Photography (5)
~	ART 470.	Glass III: Intermediate Glassblowing (5)
9.	ART 415.	Senior Seminar: Art and Society (2)
10.	MKTG 305.	Marketing Principles (4)

B.A. IN ART - PLAN V (Graphic Design and Marketing) Requirements (89 units)

Total units required for graduation: 180

This program is designed for students with a strong interest in graphic design, marketing, public relations and business communications.

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 cho	
	ECON 200.	Principles of Microeconomics (4)
	ECON 202.	Principles of Macroeconomics (4)
	MGMT 100.	Introduction to Business and Public
		Administration (4)
Up	per-division req	uirements (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)
Fle	ctives (12 units	
1.		hosen from (if not taken previously):
	ART 301.	Topics in Studio Art for Non-Majors (2.5)
	ART 575.	Internship (4)
	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)

TEACHING CREDENTIAL PROGRAM

The Bachelor or Art in Art - Plan I is an approved single subject teaching credential preparation program in art. For information about prerequisite courses, professional education component of the credential program, admission to the teacher education program and specific requirements for the single subject waiver program, see Page 142 or contact the Center for Assisting Students in Education (C.A.S.E.).

Internship in Marketing (4)

Seminar in Marketing (4)

MINOR IN ART HISTORY

Requirements (28 units)

MKTG 575.

MKTG 590.

Requirements for a minor in Art History:

Lower-division requirements (three courses totalling 12 units)

- 1. ART 221. Art History: Prehistoric Times through the Middle Ages (4)
- 2. ART 222. Art History: Africa, Asia, the Americas and Oceania (4)
- 3. ART 223. Art History: Renaissance to the Present (4)
- Upper-division requirements (16 units)

1. Art history

Sixteen units chosen from:

On tool and	
ART 305.	Women and Art (4)
ART 306.	Greek and Roman Art (4)
ART 310.	Asian Art (4)

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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 GRAPHIC DESIGN - PRINT

Requirements (33 units)

Requirements for a minor in Graphic Design - Print:

	•	
1.	ART 232.	Principles of Design Management (4)
2.	ART 238.	Production of Visual Information 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)

MINOR IN GRAPHIC DESIGN - WEB

Requirements (33 units)

Requirements for a minor in Graphic Design - Web:

1.	ART 232.	Principles of Design Management (4)

- 2. ART 238. Production of Visual Information Design (4)
- 3. ART 320. Digital Image Editing (5)
- 4. ART 322. Web Design (5)
- 5. ART 325. Advanced Digital Image Editing (5)
- 6. ART 326. Interactive Multimedia Design (5)
- 7. ART 330. Animation and Web Motion-Graphics (5)

MINOR IN STUDIO ART

Requirements (43 units)

Requirements for a minor in Studio Art:

Lower-division requirements (seven courses totalling 28 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)

Studio course (5 units)

1. 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

1.	Two five-unit o	courses chosen from:
	ART 304.	Advanced Drawing and Life Drawing (5)
	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 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 370.	Glass II: Advanced Beginning Glassblowing (5)
	ART 371.	Glass Coldworking (5)
	ART 372.	Glass Kilnforming and Kilncasting (5)
	ART 391.	Intermediate Photography (5)
	ART 392.	Advanced Photography (5)
	ART 393.	Photographic Illustration and Design (5)
	ART 394.	Color Photography (5)
	ART 396.	New Genres (5)
	ART 398.	Documentary Photography (5)
	ART 470.	Glass III: Intermediate Glassblowing (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. See Page 55 for additional certificate information.

Certificate in Business Skills for the Artist

Certificate Requirements (32 units)

- 1. ACCT 211. Introductory Accounting I (4)
- 2. MGMT 442. Small Business Management (4)
- 3. 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. Materials fee required. (1 or 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 212. Eight hours activity. (ART 120=**CAN** ART 14) (4 units)

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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. Eight hours activity. (ART 121=**CAN** ART 16) (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 art and 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. Eight hours activity. (ART 122=**CAN** ART 8) (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. Eight hours activity. (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. Materials fee required. (**GE**=C1) (4 units)

221. Art History: Prehistoric Times through the Middle Ages

Development of early Western art and its historical context. Materials fee required. (ART 221=**CAN** ART 2) (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. Materials fee required. (4 units)

223. Art History: Renaissance to the Present

Development of later Western art and its historical context. Materials fee required. (ART 223=**CAN** ART 4) (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 Macintoshbased computer laboratory. The focus will be on concept, process and product. Materials fee required. Formerly ART 332. Eight hours activity. 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. Materials fee required. Formerly ART 335. Prerequisites: ART 120 and 122. (ART 235=**CAN** ART 10) (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. Eight hours activity. 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. (ART 240=**CAN** ART 12) (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. (ART 254=**CAN** ART 6) (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. (ART 260=**CAN** ART 20) (5 units)

270. Glass I: Beginning Glassblowing

Intended for beginners with little or no experience with molten glass interested in learning the basic techniques of glassblowing. Hands-on course during which the fundamental aspects of glassblowing will be explored. Through demonstrations and practice, students will become acquainted with the tools and materials needed to realize blown forms in glass. Working with clear glass, students will develop basic glassblowing skills by learning how to form simple shapes such as the sphere, cylinder, disc, and vessel form. Individual student skills emphasized. Materials fee required. Prerequisite: ART 120 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. (ART 290=**CAN** ART 18) (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. Materials fee required. (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. Materials fee required. Prerequisite: 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. Materials fee required. (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. Materials fee required. (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. Materials fee required. (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. Materials fee required. (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. Materials fee required. (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. Materials fee required. (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.) Materials fee required. (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.) Materials fee required. (4 units)

325. Advanced Digital Image 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. Materials fee required. (4 units)

328. Mexican Art

Art and architecture of Mexico from the Conquest to the present. Materials fee required. (4 units)

329. Chicano Art

Art and culture of Mexican Americans. Materials fee required. (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. Materials fee required. (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 Macintoshbased computer laboratory. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: ART 232 and 238 or consent of instructor. (5 units)

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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. Materials fee required. (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 for credit. 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. (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)

370. Glass II: Advanced Beginning Glassblowing

Advanced beginning course in which students will develop an understanding of the wide range of possibilities that exist when working with glass in the fields of fine art, craft, design, and architecture. Offers a comprehensive education in techniques, materials, history and philosophy relating to glass. Emphasis is on the sculptural and aesthetic potential of glass in its molten and frozen states. Students will learn such techniques as solid offhand molten glassworking, glassblowing, kiln casting, cold construction, mold making, sandblasting, and various surface processes. Formerly ART 375. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 270 or consent of instructor. (5 units)

371. Glass Coldworking

Provides comprehensive technical instruction on basic glass coldworking processes including glass polishing, sandblasting, etching, cutting, engraving, gluing, laminating, glass drilling. Students will apply new technical skills to self-generated projects. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 370 or consent of instructor. (5 units)

372. Glass Kilnforming and Kilncasting

Offers a survey of kiln techniques including fusing (melting flat pieces of glass together), slumping (melting flat glass over a dimensional object) and coldwork. Offers a practical overview of the principal techniques required to realize cast forms in glass, including the making of multi-piece plaster and silicon rubber molds used in the reproduction of forms, the lost wax process, and the various refractory molds used for casting these forms in glass. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 371 or consent of instructor. (5 units)

386. Digital Photography

Fundamentals of digital photography with emphasis on theory, aesthetics, and technology for fine art and commercial applications. Instruction includes acquisition techniques (digital cameras and scanning equipment), image correction and manipulation software, and output technologies. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 290 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. 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) C S

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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. May not be taken for credit by students who have received credit for ART 400. Materials fee required. 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. May be repeated for a total of 10 units, with a maximum of five units applied to the student's area of specialization. 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)

400. Teaching Art in the Elementary Classroom

Provides art skills, current art education theory and practice for the elementary classroom teacher with an elevated interest in visual art. Students will learn how to design art lessons and art activities based on works of art in accordance with California Visual Art Standards. May not be counted towards fulfilling requirements in the art major. May not be taken for credit by students who have received credit for ART 395. Two hours lecture and four hours of fine arts activity. Materials fee required. Prerequisites: ART 200 and a college-level studio art course. (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. Materials fee required. (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 Materials fee required. 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. Materials fee required. (4 units)

423. Nineteenth Century European Art

Art of the Nineteenth-century Europe; from neo-Classicism through post-Impressionism. Materials fee required. (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)

470. Glass III: Intermediate Glassblowing

Further development of skills to gain better control of the blown glass medium through conceptual projects and technical exercises. A variety of vessel forms, bit work and color techniques are demonstrated with an emphasis on teamwork and communication. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 372 or consent of instructor. (5 units)

471. Glass IV: Advanced Glassblowing

Students will cultivate a personal portfolio and develop a body of work. Theoretical, philosophical, and critical dialogue is realized through individual and group critique. Students will participate in the following hot glass processes; gathering and forming freehand molten glass using traditional techniques, experimenting with solid and hollow forms, hot construction techniques and team production and forming with molds. May be repeated for credit. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: ART 470 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)

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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. Materials fee required. 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. Materials fee required. 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. Materials fee required. Prerequisites: ART 399, 496 and 497. (4 units)

510. Colloquium in Art

Inquiry into problems of art history, aesthetics and art criticism. May be repeated for credit. Materials fee required. 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. Materials fee required. 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. Materials fee required. Pre-requisite: 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. (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. (1 to 6 units)

BIOLOGY

Department of Biology

Biological Sciences Building, Room 329

(909) 537-5305 http://biology.csusb.edu/

Bachelor of Arts

Biology

Biology - Pre-Med Option

Bachelor of Science

Biology

Biology - Pre-Med Option

Biology and Doctor of Osteopathic Medicine Articulation

Minor

Biology

Certificate Program

Biotechnology

Master of Science

Biology

(Degree requirements can be found on Page 338.)

FACULTY: Nicole Bournias, Klaus Brasch, Herbert Brunkhorst, Michael Chao, Richard Fehn, James Ferrari, Dalton Harrington (Emeritus), Sarojam Mankau (Emeritus), Anthony Metcalf, Paul Orwin, David Polcyn (Chair), John Skillman, Alexander Sokoloff (Emeritus), Stuart Sumida, Colleen Talbot, Jeffrey Thompson, Gerald Thrush, Kimberly Williams, Ruth Wilson (Emeritus)

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. Field trips are a normal and required part of a number of courses.

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.

Preprofessional students of medicine, dentistry or other sciencebased fields seeking a major in biology should consult with a departmental advisor.

B.A. IN BIOLOGY

Requirements (93-103 units)

Total units required for graduation: 180

Requirements for the B.A. in Biology:

Lower-division requirements (53-61 units)

1.	BIOL 200.	Biology of the Cell (5)

- 2. BIOL 201. Biology of Organisms (5)
- Biology of Populations (5) 3. BIOL 202.
- 4 CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- General Chemistry II: Principles of Chemical 5. CHEM 216. Reactions (6)

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) Principles of Organic Chemistry II (5) CHEM 322.

CHEM 323. Principles of Organic Chemistry III (5)

- 7. Four units chosen from:
 - MATH 192. Methods of Calculus (4) MATH 211. Basic Concepts of Calculus (4)
- 8. 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)
 - General Physics II (5) PHYS 222.
 - PHYS 223. General Physics III (5)

Upper-division requirements (40-42 units)

- Cell Physiology (5) 1. BIOL 300.
- Molecular Biology (5) BIOL 400. 2.
- 3. BIOL 421. Genetics (4)
- 4. BIOL 422. Genetics Laboratory (1)
- Five units chosen from: 5. BIOL 450. Ecology (5) BIOL 455. Marine Biology and Ecology (5)
- 6. 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)
- Comparative Plant Physiology (6) BIOL 431.
- Group B:
- Microorganisms (6) BIOL 320.
- Human Anatomy for Biology Majors (6) BIOL 323.
- Human Physiology for Biology Majors (6) BIOL 324. Biology of Invertebrates (6) BIOL 331.
- Entomology (5) BIOL 335.
- BIOL 340. Comparative Embryology (4)
- BIOL 342. Biology of the Chordates (6)
- BIOL 371. Parisitology (5)
- Comparative Animal Physiology (6) BIOL 424.
- BIOL 440. Principles of Development (5)
- BIOL 524. Advanced Vertebrate Morphology (3) Immunology (5)

BIOL 573. Group C:

- BIOL 321. Evolution (4)
- Medical and Economic Botany (4) BIOL 380.
- BIOL 502. Genetic Engineering (4)
- BIOL 522. Population Genetics (4)
- BIOL 528. Concepts of Molecular Genetics (4)
- Virology (4) BIOL 572.
- BIOL 576. Endocrinology (4) BIOL 580. Neurobiology (4)
- Group D:
- Biology Seminar (1) BIOL 390.
- BIOL 396. Directed Study (1-2)
- BIOL 490. Special Topics (1-3)
- BIOL 491. Special Laboratory Topics (1-3)
- BIOL 530. Scanning Electron Microscopy (5)

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- BIOL 531. Transmission Electron Microscopy (5)
- Techniques in Ultrastructure Analysis (5) BIOL 532.
- BIOL 565. Physiological Ecology (6)
- BIOL 575. Internship in Biology (2)
- Senior Seminar (2) BIOL 590.
- Recombinant DNA Techniques (4) BIOL 592.
- BIOL 595. Independent Study (1-6)

B.A. IN BIOLOGY - PRE-MED OPTION

Requirements (96-100 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 (56-58 units)

LU		
1.	BIOL 200.	Biology of the Cell (5)
2.	BIOL 201.	Biology of Organisms (5)
3.		Biology of Populations (5)
4.	CHEM 215.	General Chemistry I: Atomic Structure and
		Chemical Bonding (6)
5.	CHEM 216.	General Chemistry II: Principles of Chemical
0.	OHEM ETO.	Reactions (6)
~		
6.		nistry (12 units)
	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.	
	CHEM 223B.	Organic Chemistry III: Laboratory (1)
7.	Four units cho	osen from:
	MATH 192.	Methods of Calculus (4)
	MATH 211.	Basic Concepts of Calculus (4)
o		thirteen units, chosen from Group A or B below:
8.		timeen units, chosen nom 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)
Up	per-division rea	juirements (40-42 units)
	•	
1.	BIOL 300.	Cell Physiology (5)
2.	BIOL 400.	Molecular Biology (5)
3.	BIOL 421.	Genetics (4)
4.	BIOL 422.	Genetics Laboratory (1)
5.	Five units cho	
0.	BIOL 450.	
		Ecology (5)
_	BIOL 455.	Marine Biology and Ecology (5)
6.		20 units of upper-division biology courses, with at
	least one cour	rse from Group A, B, and C:
	Group A:	
	BIOL 319.	Local Flora (5)
	BIOL 354.	Biology of Higher Plants (6)
	BIOL 431.	Comparative Plant Physiology (6)
	Group B:	
	BIOL 320.	Microorganisms (6)
	BIOL 323.	Human Anatomy for Biology Majors (6)
	BIOL 324.	Human Physiology for Biology Majors (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 524.	Advanced Vertebrate Morphology (3)
BIOL 573.	Immunology (5)
Group C:	
BIOL 380.	Medical and Economic Botany (4)
BIOL 522.	Population Genetics (4)
BIOL 572.	Virology (4)
BIOL 576.	Endocrinology (4)
BIOL 580.	Neurobiology (4)
Group D:	
BIOL 331.	Biology of Invertebrates (6)
BIOL 335.	Entomology (5)
BIOL 340.	Comparative Embryology (4)
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 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 590.	Senior Seminar (2)
BIOL 592.	Recombinant DNA Techniques (4)
BIOL 595.	Independent Study (1-6)
Additional cou	rses which will be useful for medical school prepa-
ration include:	
BIOL 324.	Human Physiology for Biology Majors
BIOL 380.	Medical and Economic Botany
BIOL 576.	Endocrinology
CHEM 436A.	Biochemistry I: Lecture
CHEM 437A.	Biochemistry II: Lecture
CHEM 438A.	Biochemistry III: Lecture

B.S. IN BIOLOGY

Requirements (112-118 units)

Total units required for graduation: 180

Requirements for the B.S. in Biology:

Lower-division requirements (56-61 units)

1. BIOL 200. Biology of the Cell (5) 2. BIOL 201. Biology of Organisms (5) Biology of Populations (5) 3. BIOL 202. CHEM 215. General Chemistry I: Atomic Structure and 4. Chemical Bonding (6) General Chemistry II: Principles of Chemical 5. CHEM 216. Reactions (6) 6. 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) Principles of Organic Chemistry II (5) CHEM 322. Principles of Organic Chemistry III (5) CHEM 323. 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.

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7.	Four units chosen from:		
	MATH 192.	Methods of Calculus (4)	
	MATH 211.	Basic Concepts of Calculus (4)	
8.	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)	
Up	per-division req	uirements (56-57 units)	
1.	BIOL 300.	Cell Physiology (5)	
2	BIOL 400.	Molecular Biology (5)	
3.	BIOL 421.	Genetics (4)	
4.	BIOL 422.	Genetics Laboratory (1)	
5.	Five units cho		
	BIOL 450.	Ecology (5)	
	BIOL 455.	Marine Biology and Ecology (5)	
6.	Either Group 2	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	5	
	BIOL 331.	Biology of Invertebrates (6)	
_	BIOL 342.	Biology of the Chordates (6)	
7.		20 units of upper-division elective course work in	
~	biology.		
8.	Chemistry (4-		
	• • • • • • • • •	four units chosen from:	
		Modern Quantitative Analysis (5)	
	CHEM 436A.	Biochemistry I: Lecture (4)	

B.S. IN BIOLOGY - PRE-MED OPTION

Requirements (112-115 units)

Total units required for graduation: 180

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 (56-58 units)

1.	BIOL 200.	Biology of the Cell (5)

- 2. BIOL 201. Biology of Organisms (5)
- Biology of Populations (5) 3. BIOL 202.
- CHEM 215. General Chemistry I: Atomic Structure and 4. Chemical Bonding (6)
- 5. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)
- Organic Chemistry (12 units) 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)
- 7. Four units chosen from:
 - Methods of Calculus (4) MATH 192.
 - MATH 211. Basic Concepts of Calculus (4)

- 8. 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) General Physics III (5) PHYS 223. Upper-division requirements (56-57 units) 1. BIOL 300. Cell Physiology (5)
- 2. BIOL 400. Molecular Biology (5)
- 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 331.
- Biology of Invertebrates (6) BIOL 342. Biology of the Chordates (6)
- 7. A minimum of four units chosen from: CHEM 345. Modern Quantitative Analysis (5) Biochemistry I: Lecture (4) CHEM 436A.

8. 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 for Biology Majors
- Human Physiology for Biology Majors BIOL 324.
- BIOL 371. Parasitology
- BIOL 380. Medical and Economic Botany
- BIOL 572. Virology
- BIOL 573. Immunology
- BIOL 576. Endocrinology
- BIOL 580. Neurobiology

Courses which will be useful for medical school preparation include:

- CHEM 436A. Biochemistry I: Lecture
- CHEM 437A. Biochemistry II: Lecture
- CHEM 438A. Biochemistry III: Lecture

B.S. IN BIOLOGY AND DOCTOR OF OSTEOPATHIC MEDICINE ARTICULATION PROGRAM

Requirements (116-121 units)

Total units required for graduation: 186

An articulation program that guarantees admission to the Doctor of Osteopathic Medicine Program at Western University of Health Sciences is available on a competitive basis to a limited number of students. Biology majors may apply for admission to the program after completing Biology 200, 201 and 202 at CSUSB. Applicants will be screened by a joint committee from CSUSB and Western University of Health Sciences, and up to four students will be admitted annually. Candidates of the program who maintain a minimum grade point average of 3.3 in the required courses for the major, take the Medical College Admission Test (MCAT), and complete the specified course work will: 1) satisfy the requirements for the B.S. in Biology

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and 2) have a position reserved for them in the Doctor of Osteopathic Medicine program at Western University of Health Sciences for the year following completion of the B.S. degree. Additional information regarding application and admission to the program is available in the Biology Department Office.

Requirements for the B.S. in Biology and Doctor of **Osteopathic Medicine Articulation Program:**

Lower-division courses (56-61 units)

LO			
1.	BIOL 200.	Biology of the Cell (5)	
2.	BIOL 201.	Biology of Organisms (5)	
3.	BIOL 202.	Biology of Populations (5)	
4.	CHEM 215.	General Chemistry I: Atomic Structure and	
		Chemical Bonding (6)	
5.	CHEM 216.	General Chemistry II: Principles of Chemical	
		Reactions (6)	
6.	Organic Cherr	nistry.	
	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) Principles of Organic Chemistry III (5) CHEM 323. 7. Four units chosen from: MATH 192. Methods of Calculus (4) MATH 211. Basic Concepts of Calculus (4) 8. A minimum of thirteen units, chosen from Group A or B below: Group A: Basic Concepts of Physics I (5) PHYS 121. Basic Concepts of Physics II (4) PHYS 122. Basic Concepts of Physics III (4) PHYS 123. Group B: PHYS 221. General Physics I (5) PHYS 222. General Physics II (5) PHYS 223. General Physics III (5)

Upper-division requirements (60 units)

- Cell Physiology (5) 1. BIOL 300.
- 2. BIOL 320. Microorganisms (6)
- 3. BIOL 323. Human Anatomy for Biology Majors (6)
- 4. BIOL 324. Human Physiology for Biology Majors (6)
- 5. BIOL 354. Biology of Higher Plants (6)
- BIOL 400. Molecular Biology (5) 6.
- BIOL 421. Genetics (4) 7.
- 8. BIOL 422. Genetics Laboratory (1)
- 9. BIOL 424. Comparative Animal Physiology (6)
- 10. Five units chosen from:
 - BIOL 450. Ecology (5)
 - BIOL 455. Marine Biology and Ecology (5)
- 11. CHEM 436A. Biochemistry I: Lecture (4)
- 12. CHEM 437A. Biochemistry II: Lecture (3)
- 13. CHEM 438A. Biochemistry III: Lecture (3)

Other courses which may be use for preparation for the program include:

- BIOL 342. Biology of the Chordates (6)
- BIOL 371. Parasitology (5)
- BIOL 380. Medical and Economic Botany (4)
- BIOL 572. Virology (4)
- BIOL 573. Immunology (5)
- BIOL 576. Endocrinology (4)
- BIOL 580. Neurobiology (4)

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.	BIOL 300.	Cell Physiology (5)
5.	CHEM 206.	Fundamentals of Chemistry II: Organic
		Chemistry (5)
6.	CHEM 215.	General Chemistry I: Atomic Structure and
		Chemical Bonding (6)
7.	CHEM 216.	General Chemistry II: Principles of Chemical
		Reactions (6)
8.	Four units cho	osen from:
	MATH 120.	Pre-Calculus Mathematics (4)
	MATH 192.	Methods of Calculus (4)
	MATH 211.	Basic Concepts of Calculus (4)
9.	Physics	
	Five units cho	sen from:
		Develop in the Modern World (5)

- Physics in the Modern World (5) PHYS 100.
- Basic Concepts of Physics I (5) PHYS 121.
- PHYS 221. General Physics I (5)
- 10. A minimum of ten upper-division units (2 courses) in biology.

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. See Page 55 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 General Chemistry I: Atomic Structure CHEM 215. 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 (28 units)

- BIOL 400. Molecular Biology (5) 1.
- 2. BIOL 502. Genetic Engineering (4)
- 3. BIOL 592. Recombinant DNA Techniques (4)
- A minimum of 15 units chosen from: 4.
 - BIOL 320. Microorganisms (6)
 - BIOL 573. Immunology (5)
 - BIOL 575. Internship in Biology (2)

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BIOL 590A. BIOL 595.	Senior Seminar: Molecular (2) Independent Study (2) (with a grade of "B" or better)
CHEM 436B. CHEM 437A. CHEM 437B. CHEM 438A.	Biochemistry I: Lecture (4) Biochemistry I: Laboratory (1) Biochemistry II: Lecture (3) Biochemistry II: Laboratory (1) Biochemistry III: Lecture (3) Biochemistry III: Laboratory (1)

TEACHING CREDENTIAL PROGRAM

Teaching Credential Preparation Subject Matter Preparation Program in Science: Biology

Biology students wishing to pursue a single subject teaching credential in science with a concentration in biology will need to take the CSET series examination. In order to learn the range of content covered in the CSET, it is recommended that the biology student should, in addition to the requirements for the Bachelor of Arts or Bachelor of Science in Biology, take the following courses:

- 1. GEOL 101. Physical Geology
- 2. GEOL 250. Historical Geology
- 3. GEOL 306. Oceans and Atmospheres for the Science Teacher
- 4. PHYS 103. Descriptive Astronomy

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 142 or contact the Department of Science, Mathematics, and Technology Education in the College of Education.

HONORS IN BIOLOGY

Candidacy for departmental honors in biology is voluntary. To be eligible a student must fulfill the following requirements:

- 1. Achieve a minimum grade point average of 3.5 for all courses satisfying the requirements for the major (as defined above);
- 2. Take at least five courses in the major at this university;
- 3. Satisfactorily complete BIOL 595. Independent Study;
- 4. 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. Materials fee required. $(\mathbf{GE}=B2)$ (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. Materials fee required. 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. Materials fee required. 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. Materials fee required. Prerequisite: BIOL 201 with a grade of "C" or better. (**GE**=B2) (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=B4) (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**=B4) (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 Materials fee required. 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. Materials fee required. 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. Materials fee required. Prerequisite: BIOL 223. (BIOL 223+224=**CAN** BIOL SEQ B) (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 349. One hour of discussion. Prerequisite or corequisite: BIOL 349. Must be completed within two quarters of having completed BIOL 349. (1 unit)

295. Special Projects in Biology

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of instructor. (1 to 2 units)

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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. Materials fee required. 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. Materials fee required. 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. 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. 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. Materials fee required.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. Materials fee required. 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 for Biology Majors

Comprehensive study of the human form in the broader context of vertebrate animals. Topics include the anatomy of early development and the following systems: integumentary, skeletal, muscular, nervous, digestive, respiratory, cardiovascular, excretory, reproductive, endocrine and special senses. Four hours lecture and six hours laboratory. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

324. Human Physiology for Biology Majors

Comprehensive study of the human function in the broader context of vertebrate animals. Topics include the physiology of the following systems: integumentary, skeletal, muscular, nervous, digestive, respiratory, cardiovascular, excretory, reproductive, and endocrine and special senses. Four hours lecture and six hours laboratory. Materials fee required. 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. Materials fee required. 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. Materials fee required. 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. Materials fee required. 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. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 units)

349. 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. Materials fee required. This course does not satisfy requirements for the B.A. or B.S. in Biology. Formerly BIOL 250. Prerequisite: one lower division course in biology. (5 units)

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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. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 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. Materials fee required. 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. Materials fee required. 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. (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. Materials fee required. Prerequisites: BIOL 300 with a grade of "C" or better and CHEM 223 or 323. (5 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. Materials fee required. 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. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better. (6 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. Materials fee required. Prerequisites: BIOL 300 with a grade of "C" or better, and CHEM 223 or 323. (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. Materials fee required. 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. Materials fee required. 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. Materials fee required. Prerequisite: BIOL 300 with a grade of "C" or better or consent of instructor. (5 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. Materials fee required. 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)

502. Genetic Engineering

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. Formerly BIOL 402. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, and CHEM 223 or 323. (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)

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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. Materials fee required. Prerequisites: BIOL 342, 424 and consent of instructor. (3 units)

528. 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. Formerly BIOL 428. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, 421, 422, and CHEM 223 or 323. (4 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. Materials fee required. (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. Materials fee required. (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. Materials fee required. (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. Materials fee required. Prerequisites: BIOL 354 and 424; or 431 and 331 or 342; and 450. (6 units)

572. 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. Formerly BIOL 472. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

573. 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. Materials fee required. Formerly BIOL 476. Prerequisites: BIOL 300 with a grade of "C" or better. (5 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)

580. 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. Fours hours lecture. Formerly BIOL 480. 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)
- L. Integrative Approach to Biology (2 units)
- M. Conservation Biology (2 units)

592. 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. Materials fee required. Formerly BIOL 492. Prerequisites: BIOL 300 with a grade of "C" or better and BIOL 400. (4 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. (1 to 6 units)

CHEMISTRY

Accredited by the American Chemical Society

Department of Chemistry and Biochemistry

Chemical Science Building, Room C5-204

(909) 537-5318 http://chem.csusb.edu/

Bachelor of Arts

Chemistry

Chemistry

Biochemistry Option

Bachelor of Science

Chemistry ACS Certified Option **Biochemistry Option**

Master of Science

Environmental Sciences (Degree requirements can be found on Page 428.)

Teaching Credential Preparation Program

Chemistry

Minor

Chemistry

FACULTY: Kimberley Cousins, John Craig, Ken Mantei,

David Maynard (Chair), Larry Mink, James Noblet, Dennis Pederson, Lisa Shamansky, Douglas Smith, Brett Stanley, John Tate, Shumei Yang

The Department of Chemistry and Biochemistry 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 sciencebased fields seeking a major in chemistry should See Page 60 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 (83 to 85 units)

Total units required for graduation: 180

Requirements for the B.A. in Chemistry -**Chemistry Option:**

Lower-division requirements (42-44 units)

General Chemistry I: Atomic Structure and 1. CHEM 215. 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. One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B for at least 13 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)
- General Physics III (5) PHYS 223.
- 7. Biological science
 - Five units chosen from:
 - Topics in Biology (5) BIOL 100.
 - BIOL 200. Biology of the Cell (5)

Upper-division requirements (41 units)

- 1. CHEM 321. Principles of Organic Chemistry I (5)
- Principles of Organic Chemistry II (5) 2. CHEM 322.
- Principles of Organic Chemistry III (5) 3. CHEM 323. Note: Subject to departmental approval the organic chemistry requirement may be met with the following: CHEM 221A. Organic Chemistry I: Lecture CHEM 221B. Organic Chemistry I: Laboratory
 - CHEM 222A. Organic Chemistry II: Lecture
 - CHEM 222B. Organic Chemistry II: Laboratory
 - CHEM 223A. Organic Chemistry III: Lecture
 - CHEM 223B. Organic Chemistry III: Laboratory Intermediate Organic Chemistry CHEM 421.
- 4. CHEM 345. Modern Quantitative Analysis (5)
- Physical Chemistry I (5) 5. CHEM 455.
- CHEM 456. Physical Chemistry II (5) 6.
- 7. CHEM 475. Inorganic Chemistry (5) CHEM 590A. Chemistry Seminar (1) 8.
- 9
- CHEM 590B. Chemistry Seminar (1) 10. Four additional upper-division units in chemistry.

B.A. IN CHEMISTRY - BIOCHEMISTRY OPTION Requirements (102 to 106 units)

Total units required for graduation: 180

Requirements for the B.A. in Chemistry -**Biochemistry Option:**

Lower-division requirements (64-66 units)

- General Chemistry I: Atomic Structure and 1. CHEM 215. Chemical Bonding (6)
- General Chemistry II: Principles of Chemical 2. CHEM 216. Reactions (6)
- 3. MATH 211. Basic Concepts of Calculus (4)
- 4. MATH 212. Calculus II (4)
- Calculus III (4) MATH 213. 5.
- 6. One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B for at least 13 quarter units). CSUSB physics sequences that satisfy this requirement are: Sequence A:
 - PHÝS 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)
- General Physics II (5) PHYS 222.
- PHYS 223. General Physics III (5)

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- 7. BIOL 200. Biology of the Cell (5)
- 8. BIOL 201. Biology of Organisms (5)
- 9. BIOL 202. Biology of Populations (5)
- 10. Organic Chemistry

Organic Orien	listry
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: Orga	nic Chemistry requirement may be met by
takin	g CHEM 321, 322 and 323.

Upper-division requirements (38-40 units)

- 1. CHEM 345. Modern Quantitative Analysis (5)
- 2. CHEM 436A. Biochemistry I: Lecture (4)
- CHEM 436B. Biochemistry I: Laboratory (1) 3.
- 4. CHEM 437A. Biochemistry II: Lecture (3)
- CHEM 437B. Biochemistry II: Laboratory (1) 5.
- CHEM 438A. Biochemistry III: Lecture (3) 6
- 7. CHEM 438B. Biochemistry III: Laboratory (1)
- 8. Ten 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 (5) CHEM 456. Physical Chemistry II (5) 9. One course chosen from: CHEM 470. **Bioinorganic Chemistry (3)**
- CHEM 475. Inorganic Chemistry (5) 10. CHEM 590A. Chemistry Seminar (1)
- 11. CHEM 590B. Chemistry Seminar (1)
- Cell Physiology (5) 12. BIOL 300.

B.S. IN CHEMISTRY - ACS CERTIFIED OPTION

Requirements (108 units)

Total units required for graduation: 186

Requirements for the B.S. in Chemistry -**ACS Certified Option:**

Lower-division requirements (48 units)

1.	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.	MATH 211.	Basic Concepts of Calculus (4)
5.	MATH 212.	Calculus II (4)
6.	MATH 213.	Calculus III (4)
7.	MATH 251.	Multivariable Calculus I (4)

- 8. PHYS 221. General Physics I (5)
- 9. PHYS 222. General Physics II (5)
- General Physics III (5) 10. PHYS 223.

Upper-division requirements (56 units)

- 1. CHEM 321. Principles of Organic Chemistry I (5)
- Principles of Organic Chemistry II (5) 2. CHEM 322.
- Principles of Organic Chemistry III (5) 3. CHEM 323.
- Subject to departmental approval the organic Note: chemistry requirement may be met with the following: CHEM 221A. Organic Chemistry I: Lecture CHEM 221B. Organic Chemistry I: Laboratory CHEM 222A. Organic Chemistry II: Lecture CHEM 222B. Organic Chemistry II: Laboratory

	CHE	M 223A. Organic Chemistry III: Lecture M 223B. Organic Chemistry III: Laboratory M 421. Intermediate Organic Chemistry	
4.	CHEM 345.	Modern Quantitative Analysis (5)	
5.		Biochemistry I: Lecture (4)	
6.	CHEM 436B.	Biochemistry I: Laboratory (1)	
7.	CHEM 455.	Physical Chemistry I (5)	
8.	CHEM 456.	Physical Chemistry II (5)	
9.	CHEM 475.	Inorganic Chemistry (5)	
10.	CHEM 545.	Advanced Analytical Chemistry (6)	
11.	CHEM 576.	Advanced Inorganic Chemistry (4)	
12.	CHEM 590A.	Chemistry Seminar (1)	
13.	CHEM 590B.	Chemistry Seminar (1)	
14.	Four additional	l upper-division units in chemistry.	
Add	Additional Requirements (4 units)		

1. Applied mathematics

- Four units chosen from:
- Multivariable Calculus II (4) MATH 252.
- MATH 270. Elementary Differential Equations (4)
- MATH 331. Linear Algebra (4)
- Comprehensive Examination (0) covering the 2. CHEM 999. major field of study, to be taken during the senior year.

B.S. IN CHEMISTRY - BIOCHEMISTRY OPTION

Requirements (109 to 115 units)

Total units required for graduation: 180-183

Requirements for the B.S. in Chemistry -**Biochemistry Option:**

Lower-division requirements (52-54 units)

- 1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- CHEM 216. General Chemistry II: Principles of Chemical 2. Reactions (6)
- 3. MATH 211. Basic Concepts of Calculus (4)
- 4 MATH 212. Calculus II (4)
- Calculus III (4) 5. MATH 213.
- 6. One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B) for at least 13 quarter units. CSUSB physics sequences that satisfy this requirement are: Sequence A:
 - PHYS 121. Basic Concepts of Physics I (5)
 - Basic Concepts of Physics II (4) PHYS 122.
 - PHYS 123. Basic Concepts of Physics III (4)
 - Sequence B:
 - PHÝS 221. General Physics I (5)
 - PHYS 222. General Physics II (5)
 - PHYS 223. General Physics III (5)
- 7. BIOL 200. Biology of the Cell (5)
- 8. BIOL 201. Biology of Organisms (5)
- 9. BIOL 202. Biology of Populations (5)
- Upper-division requirements (57-61 units)
- 1. CHEM 321. Principles of Organic Chemistry I (5)
- 2. CHEM 322. Principles of Organic Chemistry II (5)
- Principles of Organic Chemistry III (5) 3. CHEM 323. Note: Subject to departmental approval the organic chemistry requirement may be met with the following:
 - CHEM 221A. Organic Chemistry I: Lecture CHEM 221B. Organic Chemistry I: Laboratory CHEM 222A. Organic Chemistry II: Lecture Organic Chemistry II: Laboratory CHEM 222B. CHEM 223A. Organic Chemistry III: Lecture CHEM 223B. Organic Chemistry III: Laboratory CHEM 421. Intermediate Organic Chemistry

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4. CHEM 345.	Modern Quantitative Analysis (5)
5. CHEM 436A.	Biochemistry I: Lecture (4)
6. CHEM 436B.	Biochemistry I: Laboratory (1)
7. CHEM 437A.	Biochemistry II: Lecture (3)
8. CHEM 437B.	Biochemistry II: Laboratory (1)
9 CHEM 438A.	Biochemistry III: Lecture (3)
10. CHEM 438B.	Biochemistry III: Laboratory (1)
11. 10 units, choo	se 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 (5)
CHEM 456.	Physical Chemistry II (5)
12. One course ch	nosen from:
CHEM 470.	Bioinorganic Chemistry (3)
CHEM 475.	Inorganic Chemistry (5)
13. CHEM 590A.	Chemistry Seminar (1)
14. CHEM 590B.	Chemistry Seminar (1)
15. BIOL 300.	Cell Physiology (5)
16. One course cl	nosen from:
BIOL 320.	Microorganisms (6)
BIOL 400.	Molecular Biology (5)
BIOL 421.	Genetics (4)
BIOL 424.	Comparative Animal Physiology (6)
BIOL 431.	Comparative Plant Physiology (6)
BIOL 440.	Principles of Development (5)
BIOL 580.	Neurobiology (4)
17. CHEM 999.	Comprehensive Examination (0) covering the
	major field of study, to be taken during the
	senior year.

TEACHING CREDENTIAL PROGRAM

Teaching Credential Preparation Program Subject Matter Preparation Program in Science: Chemistry

Chemistry majors pursuing a single subject teaching credential in science with a chemistry specialization will need to take the CSET Exam to verify subject matter competence. To prepare for the CSET exam, the following courses are recommended as part of, or in addition to the chemistry degree.

1. BIOL 200.	Biology of the Cell (5)
2. BIOL 201.	Biology of Organisms (5)
3. BIOL 202.	Biology of Populations (5)
4. GEOL 101.	Introductory Geology (5)
5. GEOL 250.	Historical Geology (5)
6. GEOL 306.	Oceans and Atmospheres for the Science
	Teacher (3)
7. NSCI 300.	Science and Technology (4)
8. PHYS 103.	Descriptive Astronomy (5)
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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 142 or contact the Department of Science, Mathematics and Technology Education in the College of Education.

MINOR IN CHEMISTRY

Requirements (56 to 61 units)

Requirements for a minor in Chemistry:

- General Chemistry I: Atomic Structure and 1. CHEM 215. Chemical Bonding (6) 2. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6) 3. 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) Organic Chemistry II: Lecture (3) CHEM 222A. 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) 4. CHEM 345. Modern Quantitative Analysis (5) 5. Four units chosen from: MATH 192. Methods of Calculus (4) MATH 212. Calculus II (4) 6. One year of introductory physics (CAN Physics Sequence A or CAN Physics Sequence B for at least 12 guarter 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) Basic Concepts of Physics III (4) PHYS 123. Sequence B: PHYS 221. General Physics I (5) PHYS 222. General Physics II (5) PHYS 223. General Physics III (5)
- 7. Ten additional upper-division units in chemistry. CHEM 590A and 590B may not be used to satisfy this requirement.

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 demon-
- stration 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 and its value to contemporary society. Topics include atomic and molecular structure, bonding, physical and chemical change, solutions and other important chemical principles related to everyday observable phenomena. In laboratory, the scientific method is employed to design experiments, test hypotheses, formulate chemical principles and interpret experiment results. Designed for those desiring a broad overview of chemistry including liberal studies majors. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (GE=B.3) (5 units)

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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=B4) (2 units)

205. Fundamentals of Chemistry I: General Chemistry (FWS)

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. Materials fee required. Prerequisites: one year of high school algebra. Prerequisite or corequisite: MATH 90 or above. (**GE**=B.3) (5 units)

206. Fundamentals of Chemistry II: Organic Chemistry (W)

Introduction to the chemistry of organic compounds. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: CHEM 205 or 215. (5 units)

207. Fundamentals of Chemistry III: Biochemistry (S)

Introduction to the principles of modern biological chemistry and to organic compounds of biological interest. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: CHEM 206. (5 units)

208. Survey of Human Biochemistry (FWS)

Survey of basic biochemical principles with an emphasis on the structure, function and metabolism of important biological molecules as related to human physiology. Three hours lecture. Prerequisite: CHEM 205. (3 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, three hours laboratory, and one hour recitation. Materials fee required. Prerequisites: one year of high school chemistry and three years of high school mathematics, or their equivalents; completion of, concurrent enrollment in or qualification for Math 110 by 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. Materials fee required. Prerequisite: CHEM 215 with a grade of "C-" or better. (CHEM 215+216=**CAN** CHEM SEQ A) (6 units)

(F)

221. Organic Chemistry I

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, predental 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. Materials fee required. Prerequisite: CHEM 215. Prerequisite or corequisite: CHEM 221A. (1 unit)

222. Organic Chemistry II

- A. Lecture. Continuation of CHEM 221A. Three hours lecture. Prerequisite: CHEM 221A with a grade of "C-" or better. (3 units)
- B. Laboratory. Continuation of CHEM 221B. Three hours laboratory. Materials fee required. Prerequisite: CHEM 221B. Prerequisite or corequisite: CHEM 222A. (1 unit)

223. Organic Chemistry III

- A. Lecture. Continuation of CHEM 222A. Three hours lecture. Prerequisite: CHEM 222A or equivalent with a grade of "C-" or better. (3 units)
- B. Laboratory. Continuation of CHEM 222B. Three hours laboratory. Materials fee required. Prerequisite: CHEM 222B. Prerequisite or corequisite: CHEM 223A. (1 unit)

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. (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. Materials fee required. 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. Materials fee required. 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. Materials fee required. Prerequisite: CHEM 216. (5 units)

322. Principles of Organic Chemistry II (W) Continuation of CHEM 321. Three hours lecture and six hours laboratory. Materials fee required. Prerequisite: CHEM 321 with a grade of "C-" or better. (5 units)

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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. Materials fee required. Prerequisite: CHEM 322 with a grade of "C-" or better. (5 units)

345. Modern Quantitative Analysis

Gravimetric and volumetric analysis, chemical equilibria, and modern instrumental methods. Three hours lecture and six hours laboratory. Materials fee required. Formerly CHEM 245. Prerequisite: CHEM 216. (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. Materials fee required. Prerequisite: CHEM 223 or equivalent course work. (5 units)

436. Biochemistry I

- A. Lecture. Structure and function of proteins, carbohydrates, and lipids. Four hours lecture. Formerly CHEM 436. Prerequisites: BIOL 200 and CHEM 216, and either CHEM 223 or 323. (4 units)
- B. Laboratory. Introduction to experimental techniques in biochemistry and biotechnology. Three hours laboratory. Formerly CHEM 436. Prerequisite or corequisite: CHEM 436A. (1 unit)

437. Biochemistry II

(W)

(FS)

(S)

- A. Lecture. Mechanism and kinetics of enzymes; metabolism of carbohydrates, lipids, and proteins. Three hours lecture. Prerequisite: CHEM 436A with a grade of "C-" or better. (3 units)
- B. Laboratory. Continuation of CHEM 436B. Three hours laboratory. Materials fee required. Prerequisite: CHEM 436B. Prerequisite or corequisite: CHEM 437A. (1 unit)

438. Biochemistry III

- A. Lecture. Structure, function, and metabolism of nucleotides and nucleic acids with an emphasis on molecular mechanisms of nucleotide synthesis and degradation, replication, transcription, translation and regulation of gene expression. Three hours lecture. Prerequisite: CHEM 437A with a grade of "C-" or better. (3 units)
- B. Laboratory. Continuation of CHEM 437B. Three hours laboratory. Materials fee required. Prerequisite: CHEM 437B. Prerequisite or corequisite: CHEM 438A. (1 unit)

439. Separation Techniques in Biochemistry (S)

Laboratory experience in techniques commonly employed in the separation of proteins and nucleic acids. Six hours laboratory. Materials fee required. Prerequisite: CHEM 436A and 436B. (2 units)

451. Physical Chemistry for Biochemists I (W)

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. in Chemistry, Chemistry Option or B.S. in Chemistry, ACS Certified Option. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: CHEM 216, 436A, and 436B; CHEM 223 or 323; MATH 213; and PHYS 123 or 223. (5 units)

452. Physical Chemistry for Biochemists II (S)

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. Materials fee required. Prerequisite: CHEM 451. (5 units)

455. Physical Chemistry I (F)

Gas kinetics, thermodynamics, properties of solutions, phase equilibria, electrochemistry, and surface phenomena. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: CHEM 216, MATH 213, and PHYS 123 or 223. Recommended: MATH 251. (5 units)

456. Physical Chemistry II (W)

Quantum mechanics, reaction rates and mechanisms, and crystal structure. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: CHEM 455. (5 units)

470. Bioinorganic Chemistry (F)

Principles of inorganic chemistry emphasizing metals in biological systems. Course will cover coordination chemistry and physical techniques used to probe activity. A survey of the types of metalloproteins and metalloenzymes and their biological functions. Detailed case studies of selected metalloproteins. May not be counted for upper division elective units for a B.A. or B.S. in Chemistry, Chemistry option. Prerequisites: CHEM 223 or 323 and 216. Recommended: CHEM 436A and 436B. (3 units)

475. Inorganic Chemistry (S)

Inorganic compounds and reactions. Special emphasis on symmetry, structure, kinetics, and thermodynamic principles. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite or corequisite: CHEM 452 or 456. (5 units)

500. Topics in Chemistry

Lecture course on an advanced chemistry topic such as: advanced organic chemistry, computational chemistry, environmental chemistry, literature in chemistry, medicinal chemistry, polymer chemistry, and spectroscopy. May be repeated for credit as topics change. Lecture only. Prerequisite: consent of instructor. (2 units)

(WS)

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501. Advanced Laboratory Techniques (FWS)

Advanced laboratory course on a subject such as organic or inorganic chemistry. May be repeated for credit for up to six units total. Final written report required. Prerequisites: the basic course covering the subject of the Advanced Laboratory Techniques course and consent of instructor. (1 to 2 units)

545. Advanced Analytical Chemistry (S-alt yr) Principles and techniques of modern instrumental analysis, including

spectrophotometry, spectroscopy, chromatography, X-ray analysis, including spectrophotometry and potentiometry. Four hours lecture and six hours laboratory. Materials fee required. Prerequisites: CHEM 223 or 323, 345 and 452 or 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 456 and either CHEM 223 or 323. (4 units)

590. Chemistry Seminar (FS)

Topics of current chemical interest, presented by students, faculty and guest speakers. To be taken once for credit toward the major requirements for graduation. Prerequisites: twelve upper-division units in chemistry, and NSCI 306 or equivalent.

A. Lecture only. Final written report required. (1 unit)

B. Oral presentation required. Prerequisite: CHEM 590A. (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. (1 to 6 units)

Graduate level courses can be found on Page 353.

COMMUNICATION

Department of Communication Studies

University Hall, Room 018

(909) 537-5815 http://cal.csusb.edu/Depts/CommStudies/

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** Script Writing (Requirements for this certificate can be found on Page 311.)

Certificate Programs

Communication Skills Conflict Management (Requirements for the Conflict Management certificate can be found on Page 356.)

Master of Arts

Communication Studies (Degree requirements can be found on Page 354.)

FACULTY: Mo Bahk, Nathan Carter, Suwichit "Sean" Chaidaroon, Rueyling Chuang, Juan Delgado (Interim Chair), Risa Dickson, Mary Fong, Donna Gotch, Jo Anna Grant, Brian Heisterkamp, Heather Hundley (Graduate Coordinator), Fred Jandt, Robin Larsen, C. Rod Metts, Ahlam Muhtaseb, Scott Rodriguez

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, industrial, professional, governmental) 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. Practica and internships support but do not substitute for a sound theoretical base. Participants in department-sponsored journalism laboratories are required to register in COMM 243. Communication Practica; 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)
- COMM 306. Communication Perspectives (4) 3.
- Computer Mediated Communication (4) 4. COMM 309.
- COMM 400. Communication Research Methodologies (4) 5.
- COMM 491. 6. Ethical Aspects of Communication (4)
- COMM 499. Senior Project (1) 7.

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 in Communication (2-5)

Electives (16 units)

1. Sixteen units in addition to those chosen in the concentration, of which 12 must be upper-division, selected in consultation with an 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

- 1. 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 330. Nonverbal communication (4) COMM 331. Communication for Training Programs (4) COMM 341.
 - Public Relations Theory and Principles (4)
 - COMM 343. Nonfiction Reporting and Writing (4)

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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)	
rcultural Communication Concentration		

Inte tural Cor icatio

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)

1.

- 1. COMM 240. Writing for Media (4)
- COMM 320. Media History and Institutions (4) 2.
- 3. COMM 321. Media and Culture (4)
- Electives (16 units)
- Sixt ٠. 1

Т.	Sixteen units c	nosen 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.	Nonfiction Reporting and Writing (4)
	COMM 344.	Public Relations Communication (4)
	COMM 345.	Advanced TV and Video Production (5)
	COMM 346.	TV and Video Field Production (5)
	COMM 347.	Fundamentals of Screenwriting (4)
	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 405.	Mass 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 471.	International Communication (4)
	COMM 481.	History and Development of Documentary (4)
	COMM 502.	Communication Law and Policy (4)
	COMM 506.	Media Sex and Violence (4)
	COMM 587.	Topics in Mass Communication (4)
	COMM 595.	Independent Study (2-5) for a maximum of (5)
Pul	olic Argumenta	ation and Rhetoric Concentration
1.	Twenty-eight u	nits 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)
	e ()

(4)

COMM 312. Persuasion (4)

	COMM 344.	Public Relations Communication (4)
	COMM 401.	Gender, Race, and Media (4)
	COMM 411.	Gender 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)
Pu	blic Relations	Concentration
1.	COMM 240.	Writing for Media (4)
2.	COMM 341.	Public Relations Theory and Principles (4)
3.	COMM 344.	Public Relations Communication (4)
4.	COMM 442.	Public Relations Campaigns (4)
5.	COMM 542.	Issue Management and Crisis
		Communication (4)
6.	Eight units cho	osen 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)
1		

COMM 341. Public Relations Theory and Principles (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**

Note: This program is being revised to meet the new CCTC standards. The requirements below apply only to students under the 2004-2005 or earlier catalog.

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 155) and complete the following:

1. Four units chosen from:

COMM 245.	Introduction to TV and Video Production (5)
CSCI 127.	Introduction to Computer Technology for

- Educators (4) 2. Four units chosen from:
 - ENG 306. Expository Writing (4)

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HUM 306.	Expository Writing for the Humanities (4)

- 3. Four units chosen from:
- ENG 312. Theories of Language Acquisition and Learning (4)
 - ENG 420. English Grammar I (4)
- 4. ENG 510. English in the Secondary Classroom (4)
- 5. COMM 304. Intercultural Communication (4)

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6.	COMM 382.	Intercollegiate Forensics (3)
7.	COMM 491.	Ethical Aspects of Communication (4)
8.	Four units cho	sen 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.	Gender and Communication (4)
9.	Four units cho	sen from:
	COMM 306.	Communication Perspectives (4)
	COMM 403.	Interpersonal Relations (4)
	COMM 422.	Communication and Conflict (4)
10.	Four units cho	sen from:
	COMM 342.	Publication Design and Makeup (4)
	COMM 344.	Public Relations Communication (4)
	COMM 345.	Advanced TV and Video Production (5)
	COMM 381.	The Development of Motion Pictures (4)
	Prior to stude	nt teaching, students must demonstrate s

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 142 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 491. Ethical Aspects of Communication (4)

Electives (16 units)

1. Sixteen additional units in communication, at least eight of which must be upper-division. COMM 120 and 180 may not be applied toward the minor.

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
1.	Twelve	units	chosen	from

Gender, Race and Media (4)	
Ethnography of Communication (4)	
Mediation Theory and Practice (4)	
Culture and Ethnicity in Language (4)	
Contemporary Theories of Rhetoric (4)	
Topics in Intercultural Communication (4)	
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:

- 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;
- 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. See Page 55 for additional certificate information.

Certificate in Communication Skills

Certificate Requirements (32 units)

Required course (4 units)

1. COMM 491. 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)
- Intercultural communication Four units chosen from:

COMM 304. Intercultural Communication (4)

COMM 411. Gender and Communication (4)

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3.	Interpersonal Four units cho	communication
	COMM 221.	
	COMM 225.	
		Communication (4)
	COMM 331.	Communication for Training Programs (4)
	COMM 403.	o o ()
	COMM 441.	Interviewing (4)
4.	Public relation	3()
	Four units cho	osen from:
	COMM 341.	Public Relations Theory and Principles (4)
	PA 307.	Public Relations in the Public Sector (4)
5.	Journalism	
	Eight units cho	osen from:
	COMM 240.	Writing for Media (4)
	COMM 342.	Publication Design and Makeup (4)
	COMM 343.	Nonfiction Reporting and Writing (4)
6.		
	Two courses f	or a minimum of four units chosen from:
	ART 290.	Photography I (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**=A2) (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**=A4) (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 an 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, electronic and digital media. 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. $(\mathbf{GE}=\mathbf{G2})$ (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. 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)

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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)

330. Nonverbal Communication

Theoretical and applied study of nonverbal communication in the shaping of human communication interactions. Emphasis on the major functions, purposes, and uses of nonverbal communication in a socio-culturally diverse society. (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, typo-graphics, infographics, mastheads, illustration, and desktop publishing. Ethical considerations discussed. Prerequisite: COMM 240. (4 units)

343. Nonfiction Reporting and Writing

Methods and procedures for reporting and writing long nonfiction in both public and private sectors. 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 postproduction 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)

347. Fundamentals of Screenwriting

Focus will be on the screenplay, including structure, characters, dialogue, scene development, conflict and theme. Attention will be given to narrative structure and storytelling for film. (4 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 nine 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. Three hours lecture and two hours laboratory. 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. (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. 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=G2) (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)

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405. Mass Media Effects

History of research in understanding media effects on individuals and society. Prerequisite: COMM 400. (4 units)

409. Latina/os, Media and Culture

Examines mass media representations of and by Latina/os in the United States and how these representations construct culture and society. Formerly a topic under COMM 584. (4 units)

411. Gender and Communication

A critical and sociological examination of how gender is socialized, constructed, communicated and performed in various communicative contexts. (4 units)

415. Advertising as Social Communication

Theories of advertising: social, 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 nine 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. Prerequisite: 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)

491. 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. Formerly COMM 501. Prerequisites: COMM 200, 306 and 400 or consent of department. (4 units)

499. 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. Formerly COMM 599. Graded credit/no credit. Prerequisite: COMM 200, 304, 306, 309, 400 and completion of 132 units with a minimum of 44 units in the major. (1 unit)

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)

506. Media Sex and Violence

Critical and empirical examination of the practices and consequences of portraying human aggression and sexuality in the mass media including television, movies, magazines, video games, and the Internet. Formerly a topic under COMM 587. (4 units)

511. Feminist Contributions to Communication Theories

Examination of how diverse feminist theories contribute to an understanding of communication and rhetoric, integrating feminist theories with communication theories, and focusing on how gender distinctions influence our thinking and communication. Will explore diversity in feminism, including ethnicity, relational orientation, religion and class. Formerly a topic under COMM 584. (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)

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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)

543. Environmental Communication

Examination of communication involving environmental issues in national and international contexts. Emphasis is placed on the relationship between communication and environmental problems and issues. Formerly a topic under COMM 584. (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. (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. (2 to 5 units)

7

COMPUTER SCIENCE

Accreditation Board for Engineering and Technology, Computing Accreditation Board

Department of Computer Science

Jack Brown Hall, Room 307 (909) 537-5326 http://www.csci.csusb.edu/

Bachelor of Arts

Computer Systems

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 359.)

FACULTY: Richard Botting, Arturo Concepcion (Chair),

George Georgiou, Ernesto Gomez, Dennis Ikenberry (Emeritus), Yasha Karant, Allan Knight, Josephine Mendoza, Owen Murphy, Keith Schubert, 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 Arts degree program is appropriate for students wishing to be involved in crossdisciplinary applications of computer science. It is suitable for students interested in a career involving software development, system administration, database management, technical support, etc. It is not suitable for students interested in areas related to electrical engineering, such as circuit design and software development at the microcode level.

The Bachelor of Science degree program is accredited by the Accreditation Board for Engineering and Technology, Computing 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 fileservers 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 20.

B.A. IN COMPUTER SYSTEMS

Requirements (106 units)

Total units required for graduation: 180

Requirements for the B.A. in Computer Systems:

Lower-division requirements (20 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 262. Applied Statistics (4)
- 5. MATH 272. Discrete Mathematics (4)

Upper-division requirements (54 units)

 CSCI 322. 	Web Page Programming (4)
2. CSCI 330.	Data Structures (4)
3. CSCI 350.	File Systems (4)
4. CSCI 372.	Computer Systems in Organizations (4)
5. CSCI 375.	Requirements Analysis and Design (4)
6. CSCI 405.	Server Programming (4)
7. CSCI 455.	Software Engineering (4)
8. CSCI 482.	Senior Interdisciplinary Project (4)
9. CSCI 488.	Ethics and the Computing Professional (2)
10. CSCI 530.	Data Communications and Networks (4)
11. CSCI 572.	Data Base Systems (4)
12. CSCI 598.	Foundations of Computer Architecture(4)
13. COMM 311.	Business and Professional Communication (4)
14. NSCI 306.	Expository Writing for the Natural Sciences (4)
Electives (8 units)	

1. Eight units chosen from CSCI courses numbered 300 and above.

Minor (minimum of 24 units)

1. Student must complete a minor in another discipline after consultation with a Computer Science faculty advisor.

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. MATH 213. Calculus III (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)

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Up	per-division red	quirements (46 units)	
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	CSCI 310. CSCI 313. CSCI 320. CSCI 330. CSCI 350. CSCI 401. CSCI 431. CSCI 435. CSCI 460. CSCI 488. CSCI 489. MATH 372.	Programming Languages (4) Data Structures (4) File Systems (4) Contemporary Computer Architectures (5) Algorithm Analysis (4) Software Engineering (4) Operating Systems (4) Ethics and the Computing Professional (2) Senior Seminar (2) Combinatorics (4)	
Ele	ectives (20 units	s)	
1.	Theory Four units cho CSCI 500.		

- Expert Systems (4) CSCI 511.
- Introduction to Artificial Intelligence (4) **CSCI 512**
- CSCI 515. Automated Reasoning (4)
- CSCI 546. Introduction to Theory of Computation (4)
- 2. Systems
- Four units chosen from:
 - CSCI 540. Systems Simulation (4)
- CSCI 565. Systems Programming (4)
- CSCI 570. Compilers (4)
- CSCI 572. Data Base Systems (4) CSCI 580.
- Advanced Data Base Systems (4)

3. Hardware

- A minimum of four units chosen from:
- Advanced Computer Architecture (4) CSCI 510. Supercomputing and Visualization (4) CSCI 524.
- Parallel Algorithms and Programming (4) CSCI 525.
- CSCI 530. Data Communications and Networks (4)
- CSCI 531. High Performance Networks (4)
- 4. Eight units chosen from 400-level and above courses not previously counted as electives above.

MINOR IN COMPUTER SCIENCE

Requirements (28 units)

Requirements for a minor in Computer Science:

- 1. Mathematics
 - Four units chosen from:
 - **Discrete Mathematics (4)** MATH 272.
 - MATH 372. Combinatorics (4)
- 2. CSCI 201. Computer Science I (4)
- 3. CSCI 202. Computer Science II (4)
- Data Structures (4) 4. CSCI 330.
- 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 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. See Page 55 for additional certificate information.

Certificate in Computer Systems and Programming

Certificate Requirements (30 units)

- 1. Two units chosen from: CSCI 123. Using Computer Software (2)
 - CSCI 124. Exploring the Information Superhighway (2)
- 2. CSCI 125. Programming in Visual Basic (4)
- 3. CSCI 201. Computer Science I (4)
- Computer Science II (4) 4. CSCI 202.
- 5. CSCI 360. Script Programming (4)
- Twelve units of upper-division coursework to be chosen in con-6. sultation 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. (2 units)

122. Bioinformatics

Introduction to natural sciences and its interplay with computer science. Description of bioinformatics and the application of computer science and problems in the life sciences. (GE=B4) (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. Materials fee required. 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

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. Materials fee required. (2 units)

(FWS)

125. Programming in Visual Basic (FWS)

Programming techniques in an event-driven and object-oriented environment. Graphical user interfaces, controls, properties, procedures, and functions. Multiple forms, menus, file access, and applications. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination or completion of the General Education Basic Skills category in Mathematics. (CSCI 125=**CAN** CSCI 6) (4 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. Materials fee required. 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 (S)

Developing applications using a current graphical user programming environment. Three hours lecture and two hours activity laboratory. Materials fee required. (4 units)

129. Science, Computing and Society

Understanding physical science in terms of information and information processing. Use of computer as both a tool and metaphor for understanding life, physics, and existence, and its implications and impact on society and ethics. (**GE**=B4) (2 units)

133. Using Word Processors and Presentation Software

Advanced features and applications of word processing and presentation software. Includes desktop publishing, building macros, building custom presentation templates and proper presentation techniques. One hour lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 123 or consent of instructor. (2 units)

134. Using Spreadsheet and Database Software

Advanced features and applications of spreadsheets and end-user database applications, including advanced formula programming, spreadsheet linking and database access. One hour lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 123 or consent of instructor. (2 units)

136. HTML Programming

Using the Hyper Text Markup Language to create Web pages. One hour lecture and two hours laboratory. Materials fee required. Pre-requisite: CSCI 124 or consent of instructor. (2 units)

201. Computer Science I

(FWS)

(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. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination, and either some prior computer programming experience, or CSCI 125. (CSCI 201=**CAN** CSCI 22) (4 units)

202. Computer Science II

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. Materials fee required. 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 CSCI 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. JAVA Programming (W)

Study of object oriented programming and techniques using JAVA 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 four 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. (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. Materials fee required. Graded credit/no credit. (2 units)

Upper Division

310. Digital Logic

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. Materials fee required. Prerequisites: CSCI 202, MATH 272 and PHYS 222. (5 units)

313. Machine Organization

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. Materials fee required. Prerequisite: CSCI 310. (4 units)

320. Programming Languages

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. Materials fee required. Prerequisite: CSCI 202. (4 units)

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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. Materials fee required. Prerequisite: CSCI 202 or consent of instructor. (4 units)

330. Data Structures

Abstract data structures including lists, stacks, queues and trees; their storage allocation and associated application algorithms. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisites: CSCI 202 and MATH 272. (4 units)

350. File Systems

Topics include file structures, file organization concepts and philosophies. Prerequisite: CSCI 330. (4 units)

360. Script Programming

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. Materials fee required. Prerequisite: CSCI 202. (4 units)

365. Systems Administration

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. Materials fee required. Prerequisite: CSCI 360. (4 units)

366. Systems Networking

Planning and configuring networks; file transfer; network file servers; bridges and routers. Three hours lecture and two hours activity laboratory. Materials fee required. Prerequisite: CSCI 360. (4 units)

372. Computer Systems in Organizations

General system and information theory. Modeling organizational activities, hardware and software using current techniques with emphasis on human-computer interaction, systems engineering and project planning. Students will study part of an actual or hypothetical organization. Prerequisite: CSCI 202. (4 units)

375. Requirements Analysis and Design

Requirements analysis, including organizational objectives, functional characteristics, technology, use cases and conceptual models. The use of aspects, patterns, objects and structure in architectural design specifications. Includes analysis and design of a software system for an organization, and fieldwork. Prerequisites: CSCI 202 and 372. (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. (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. Materials fee required. Prerequisite: CSCI 313. (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. Materials fee required. Prerequisite: CSCI 322. (4 units)

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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. (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. Materials fee required. 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. Materials fee required. Prerequisites: CSCI 313 and 330. (4 units)

482. Senior Interdisciplinary Project

Analysis, design and implementation of a software system in the student's minor field of study. Presentation techniques and communication skills to support project planning and execution. Prerequisites: CSCI 375 and consent of the department. (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 consent of instructor. (2 units)

500. Introduction to Formal Languages and Automata

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 consent of instructor. (4 units)

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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. Materials fee required. Prerequisite: CSCI 401. (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 Materials fee required. Formerly CSCI 411. Prerequisite: CSCI 330. (4 units)

513. Advanced Artificial Intelligence

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. Materials fee required. Prerequisite: CSCI 512 or consent of instructor. (4 units)

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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. (4 units)

520. Advanced Computer Graphics

Advanced computer graphics concepts, theory and implementation techniques. Topics include shading models, parametric curves and surfaces, hidden edge and surface removal, and anti-aliasing. Pre-requisites: CSCI 420 and MATH 213. (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. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSCI 430. Prerequisites: CSCI 313 or 598, and 330. (4 units)

531. High Performance Networks

High performance network methodologies. Methods to develop network performance measures and models. Introduction to path cost estimation and service reliability issues. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 530 or consent of instructor. (4 units)

535. Numerical Computation

Introduction to scientific computing. Algorithms related to approximations, zero findings, numerical differentiation and integration, data fitting and interpolation, nonlinear equations. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 313 or equivalent. (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. (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. Materials fee required. Prerequisites: CSCI 320 and 330. (4 units)

565. Systems Programming

Concepts of, and implementation techniques for systems software such as assemblers, editors, interpreters, linkers, loaders and operating systems. Formerly CSCI 465. Prerequisite: CSCI 460. (4 units)

570. Compilers

Interpreter and compiler structures. Topics include symbol tables, lexical and syntactic analyzers, and object code generation. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSCI 470. Prerequisites: CSCI 313, 320 and 330. (4 units)

572. Data Base Systems

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. Materials fee required. Formerly CSCI 480. Prerequisite: CSCI 350. (4 units)

575. Internship in Computer Science

Supervised work and study in private or public organizations. Graded credit/no credit. Prerequisites: a minimum grade point average of 3.0 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)

(W)

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(F)

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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. Materials fee required. 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 consent of instructor. (4 units)

595. Independent Study

Laboratory and/or library research conducted under the direction of a faculty member. A total of four 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. (1 to 4 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. May not be counted as upper-division elective units for the B.S. in Computer Science. 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. May not be counted as upper-division elective units for the B.S. in Computer Science. Prerequisites: CSCI 330 and consent of instructor. (4 units)

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CRIMINAL JUSTICE

Department of Criminal Justice

Social and Behavioral Sciences Building, Room 209 (909) 537-5506 http://criminaljustice.csusb.edu/

Bachelor of Arts

Criminal Justice Paralegal Studies

Minor

Criminal Justice Paralegal Studies

Master of Arts

Criminal Justice (Degree requirements can be found on Page 367.)

Certificate Programs

Criminal Justice Paralegal Studies

FACULTY: Gisela Bichler, Frances Coles, John A. Conley,

Christine Famega, 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. Students directed toward probation, parole or corrections work are advised to select courses accordingly.

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 (68 units)

Total units required for graduation: 180

Requirements for the B.A. in Criminal Justice:

Lower-division requirements, prerequisites for upper-division courses (8 units)

CJUS 101. Introduction to the Criminal Justice System (4)
 CJUS 102. Criminal Law (4)

2. CJUS 102. Criminal Law (4) 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)

- **Note:** Students transferring from community colleges may substitute a maximum of 12 lower-division units selected from administration of justice courses toward the electives category.
- 1. Forty-four units chosen from:

Forty-four units	s 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 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 453.	Gangs (4)
CJUS 455.	Forensic Profiling (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 470.	Environmental Crime Prevention (4)
CJUS 504.	Criminal Procedure (4)
CJUS 550.	Crime and Intelligence Analysis (4)
CJUS 554.	Terrorism (4)
CJUS 555.	Homeland Security (4)
CJUS 570.	Crime in Public Spaces (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 comm

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.

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B.A. IN CRIMINAL JUSTICE -		
PARALEGAL STUDIES OPTION		
Requirements (68 units)		
To	tal units req	uired for graduation: 180
Requirements for the B.A. in Criminal Justice - Paralegal Studies Option:		
	wer-division rec urses (12 units)	uirements, prerequisites for upper-division
	CJUS 101. CJUS 102.	Introduction to the Criminal Justice System (4) Criminal Law (4)
	PLST 100.	Introduction to Law (4)
Up	per-division rec	uirements (24 units)
	CJUS 311.	Research Methods in Criminal Justice (4)

- 2. CJUS 312. Statistics in Criminal Justice (4)
- PLST 371. Contract Law (4) 3.
- PLST 372. Tort Law (4) 4.
- 5. PLST 385. Legal Research (4)
- 6. PLST 386. Legal Writing (4)

Electives (32 units)

Students transferring from community colleges may Note: substitute a maximum of 8 lower-division units selected from paralegal courses toward the electives category.

Thirty two uni 1

Thirty-two units chosen from:		
CJUS 370.	Lav	v and the Courts (4)
CJUS 504.	Cri	minal Procedure (4)
PLST 370.	Wil	ls, Estates and Trusts (4)
PLST 373.	Pro	pperty Law (4)
PLST 376.	Far	mily Law (4)
PLST 377.	Fur	ndamentals of Litigation (4)
PLST 378.	Co	rporate Law (4)
PLST 575.	Inte	ernship in Paralegal Studies (4)
PLST 590D.	Тор	pics in Paralegal Studies (4)
PLST 595.	Ind	ependent Study (1-4) for a total of (4)
A maximum of	f eig	ht units may be chosen from the following:
ACCT 211	I.	Introductory Accounting I (4)
BIOL 223.		Human Physiology and Anatomy I (4)
COMM 311.		Business and Professional
		Communication (4)
COMM 44	11.	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 Delinguency (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)
- Legal Writing (4) 3. PLST 386.

4. Sixteen units chosen from: DI CT 270

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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.	Topics 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 55 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)
- CJUS 320. Theories of Crime and Delinguency (4) 3.
- 4. CJUS 330. Correctional Theory and Institutions (4)
- CJUS 340. 5. Police and Police Systems (4)
- CJUS 370. Law and the Courts (4) 6.
- 7. Eight units chosen from upper-division electives in criminal iustice.

Certificate in Paralegal Studies

Certificate 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)
- SSCI 306. Expository Writing in the Social Sciences (4) 5.
- Integrative Capstone in the Social and Behavioral Sciences 6. Four units chosen from:
 - SSCI 300. Nonwestern World (4)
 - SSCI 304. Contemporary Latin America (4)
 - SSCI 315. Cultural Adaptation: The Quest for Survival (4)
 - Race and Racism (4) SSCI 316.
 - SSCI 320. Understanding Capitalism (4)
 - SSCI 321. Urbanization and the Urban Environment (4)

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	SSCI 325.	Derenactives on Conder (1)
		Perspectives on Gender (4)
	SSCI 345.	Religious Expression in America (4)
	SSCI 350.	Roots of Modern Racism in America (4)
		ent may receive credit for only one of the
		ving courses:
		1 325. Perspectives on Gender
		1 325. Perspectives on Gender
		I 325. Perspectives on Gender
7.	0	pstone in the Humanities
	Four units cho	
	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 375.	The World of Islam (4)
	HUM 380.	Comparative Studies in the Arts: East and
		West (4)
	HUM 385.	A Cultural History of Fashion (4)
		ent may receive credit for only one of the following
	cours	
		1 325. Perspectives on Gender
		1 325. Perspectives on Gender
	SSC	I 325. Perspectives on Gender
Le	gal Speciality (3	6 units)
1.	Required cour	ses (20 units)
	PLST 100.	Introduction to Law (4)
	PLST 371.	Contract Law (4)
	PLST 372.	Tort Law (4)
	PLST 385.	Legal Research (4)
	PLST 386.	Legal Writing (4)
2.	Elective cours	
		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.	Topics in Paralegal Studies (4)
	PLST 595.	Independent Study (1-4)
	No more than	eight units taken from the following may count
	towards the m	
	ACCT 211	
	BIOL 223.	
	CJUS 370	. Law and the Courts (4)
	CJUS 504	. Criminal Procedure (4)
	COMM 31	1. Business and Professional
		Communication (4)
		1. Interviewing (4)
	COMM 44 COMM 52	5()

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

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. (CJUS 106=CAN AJ 8) (4 units)

Upper Division

CJUS 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. Prerequisites: CJUS 311 and MATH 110 or 115 or equivalent. (4 units)

320. Theories of Crime and Delinguency

Causes of crime and delinguency 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)

361. Comparative Criminal Justice Systems

Description and analysis of selected international criminal justice systems. Emphasis on administrative functions, processes and outcomes. (4 units)

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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 policecommunity 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=G2) (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)

453. Gangs

Gangs and the effects they have on society. Historical developments and recent trends. Review and evaluation of programs that attempt to prevent, intervene, and suppress gang activity. (4 units)

455. Forensic Profiling

Forensic techniques used to aid legal authorities in identifying suspects and acquiring evidence toward solving crimes. Forensic profiles in various criminal justice components, such as law enforcement activities and jury selection. Formerly a topic under CJUS 590. Prerequisite: CJUS 320. (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)

470. Environmental Crime Prevention

Crime Prevention Through Environmental Design (CPTED) and Situational Crime Prevention used by criminal justice agencies, community planners and architects, to increase security of public and private facilities. (4 units)

504. Criminal Procedure

Examination of the rules governing criminal procedure. Impact of statutes and case law on criminal justice practitioners including the 4th, 5th, 6th, 8th and 14th Amendments as they affect the accused, the convicted, and the employees working in the criminal justice system. Formerly CJUS 304. Prerequisites: CJUS 102 and consent of instructor. (4 units)

550. Crime and Intelligence Analysis

Analysis of existing criminal justice information systems with current computer applications in order to assist criminal investigations, examine crime patterns and resolve community crime problems. Analytical techniques including link diagrams, telephone tolls, and visual investigations. Prerequisites: CJUS 311 and 312 or equivalent. (4 units)

554. Terrorism

Characteristics and causes of terrorism emerging in the 21st century. An analysis from a criminal justice perspective of terror movements affecting the United States covering legal issues, investigations, and criminal profile. (4 units)

555. Homeland Security

Examination of homeland security events including radiological, biological and chemical events. Emphasis will be given to prevention, preparedness, and response. The roles of local, state and federal agencies are examined. (4 units)

570. Crime in Public Spaces

Field research on the interrelationship between the built urban environment and crime. Involvement in a community project to study public places that generate and attract crime in order to develop creative solutions. Prerequisite: CJUS 311. (4 units)

575. Internship in Criminal Justice

Supervised work and study in private or public organizations. Open only to criminal justice majors. May be repeated for credit for a total of eight units; only four may be used in the major. Graded credit/no credit. Prerequisite: consent of internship coordinator. (4 units)

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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. (1 to 4 units)

595. Independent Study

In-depth research into special topics concerned with the criminal justice system utilizing readings, library and/or field research. May be repeated for credit for a total of eight units; only four may be used in the 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. (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. May be repeated for credit for a total of eight units; only four may be used in the major. 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. Topics 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. (1 to 4 units)

595. Independent Study

Special topics involving library and/or field research. May be repeated for credit for a total of eight units; only four may be used in the major. 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. (4 units)

DANCE

Department of Theatre Arts

Performing Arts Building, Room 111 (909) 537-5876 http://cal.csusb.edu/Depts/TheatreArts/

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 309.

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 150 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)

310. World Dance Traditions

Study and application of traditional dance forms from throughout the world. Technique and cultural context will be emphasized. Course may be repeated for credit. One hour lecture and two hours activity. A. African (2 units)

- B. South and Central American (2 units)
- C. North American (2 units)
- D. Asian (2 units)
- E. Mediterranean (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)

580. Advanced Creative Dance Methods

Advanced methods for teaching dance techniques, emphasizing concentration, imagination, body awareness, and self-expression. Course intended for teachers and recreation and community leaders who will plan lessons with the California Visual and Performing Arts Framework and Standards. Requires a minimum six-hour field component. Prerequisite: DAN 481. (4 units)

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ECONOMICS

Department of Economics

Social and Behavioral Sciences Building, Room 327D (909) 537-5511 http://economics.csusb.edu/

Bachelor of Arts

Administration: Business Economics (Degree requirements can be found on Page 69.) **Economics** Economics Political Economy

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, 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 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. Four units chosen from: Statistics for Economists (4) ECON 250. Applied Business Statistics (4) SCM 210.
- 4. Four units chosen from: MATH 110. College Algebra (4) MATH 120. Pre-Calculus Mathematics (4)

Upper-division requirements (45 units)

- 1. ECON 300. Intermediate Macroeconomics (4)
- 2. ECON 302. Intermediate Microeconomics (4)
- 3. ECON 335. Economic Analysis with Microcomputers (5)
- 4. ECON 500. History of Economic Thought (4)
- 5. A minimum of four units chosen from Quantitative Analysis courses:

ECON 322.	Managerial Economics (4)
ECON 340.	Advanced Economic Analysis with
	Microcomputers (4)
ECON 372.	Business Cycles (5)
ECON 480.	Quantitative Methods in Economics (4)
ECON 490.	Introduction to Econometrics (4)

- 6. Four units chosen from Applied Field courses: Economics of the Environment (4) Money and Banking (4) International Economics (4)
 - ECON 435. Multinational Corporations (4)
 - ECON 460. Labor Economics (4)

ECON 360.

ECON 410.

ECON 430.

- ECON 475. Public Finance (4)
- ECON 571. Economics of Sports (4)
- Economics of Crime (4) ECON 573. 7. Four units chosen from Political Economy courses:
- ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
 - ECON 352. Political Economy of Poverty and Discrimination (4)
 - ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)
 - ECON 421. Economic History of the United States (4)
 - ECON 445. Political Economy (4)
 - ECON 450. Global Economy (4)
 - ECON 520. Social Economics (4)
- Sixteen units of additional economics courses. With approval of a 8. departmental advisor, eight units in related fields may be counted toward the course requirement in economics.
 - In addition to the course requirements stated above, stu-Note: dents 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 (60 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)
- ECON 202. Principles of Macroeconomics (4) 2.
- Four units chosen from: 3
 - ECON 250. Statistics for Economists (4)
 - Applied Business Statistics (4)
- MATH 110. College Algebra (4)
 - MATH 120. Pre-Calculus Mathematics (4)

Upper-division requirements (44 units)

- 1. ECON 300. Intermediate Macroeconomics (4)
- 2. ECON 302. Intermediate Microeconomics (4)
- 3. ECON 445. Political Economy (4)
- ECON 500. History of Economic Thought (4) 4.
- 5. Twelve units chosen from Political Economy courses: ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4)
 - ECON 352. Political Economy of Poverty and Discrimination (4)
 - ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)
 - ECON 421. Economic History of the United States (4)
 - ECON 445. Political Economy (4)
 - ECON 450. Global Economy (4)
 - ECON 520. Social Economics (4)
- 6. Sixteen units of additional economics courses. With approval of a departmental advisor, eight units in related fields may be counted toward the course requirements in economics.
 - In addition to the course requirements stated above, stu-Note: dents considering graduate study in economics are urged to complete the following courses: ECON 480 and 490, MATH 211, 212, 251 and 331.

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SCM 210.

- Four units chosen from: 4.

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B.A. IN ECONOMICS - SOCIAL SCIENCE		
CREDENTIAL OPTION Requirements (125-126 units)		
	-	. ,
10		uired for graduation: 180 nts are currently not being admitted to this program.
D		s for the B.A. in Economics -
		ce Credential Option:
		•
		quirements (69 units)
1.	ANTH 102.	Introduction to Anthropology: Culture and Society (4)
2.	Four units ch	
	ANTH 140. HIST 140.	World Civilization I, the Rise of Civilization (4) 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 ch	
	GEOG 100.	Introduction to Human Geography (4)
	SSCI 165.	Regions and Peoples of the World (4)
	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)
	. HIST 201.	U.S. History, 1877 to the Present (4)
	. Four units ch	
	PHIL 192.	Introduction to Philosophy of Religion (4)
	PHIL 193.	Introduction to Eastern Philosophy (4)
13	. Four units ch	
	ECON 250.	Statistics for Economists (4)
	MATH 305.	Statistics: Hypothesis Testing and Estimation (4)
11	SCM 210. . MATH 110.	Applied Business Statistics (4)
	. MATH 110. . PSCI 203.	College Algebra (4) American Government (4)
	. PSYC 100.	Introduction to Psychology (4)
	. SOC 100.	The Study of Society (4)
		quirements (56 or 57 units)
1.	ECON 300.	Intermediate Macroeconomics (4)
1. 2.	ECON 300. ECON 302.	Intermediate Microeconomics (4)
2. 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 ch	
	ECON 435.	Multinational Corporations (4)
	ECON 450.	Global Economy (4)
7.		nits chosen from:
	ECON 335.	Economic Analysis with Microcomputers (5)
	ECON 360.	Economics of the Environment (4)
	ECON 410. ECON 430.	Money and Banking (4)
8.	Four units ch	International Economics (4)
0.	ECON 333.	Political Economy of Women: Money, Sex,
	20011000.	Race, and Power (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)
	. HIST 370.	History of California (4)
11.	. PSCI 330.	State and Local Politics (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)
	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)
13.	Four units cho	sen 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 cho	
	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 375.	The World of Islam (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)

- 1. ECON 200. Principles of Microeconomics (4)
- 2. ECON 202. Principles of Macroeconomics (4)

Upper-division requirements (20 units)

- 1. ECON 500. History of Economic Thought (4)
- 2. Sixteen units of additional economics courses.

MINOR IN POLITICAL ECONOMY Requirements (28 units)

Requirements for a minor in Political Economy:

Lower-division requirements (4 units)

1. ECON 202. Principles of Macroeconomics (4)

Upper-division requirements (24 units)

1. ECON 445. Political Economy (4)

- 2. ECON 500. History of Economic Thought (4)
- 3. Twelve units chosen from:
 - ECON 333. Political Economy of Women: Money, Sex, Race, and Power (4) ECON 352. Political Economy of Poverty and
 - ECON 452. Folitical Economy of Poverty and Discrimination (4) ECON 421. Economic History of the United States (4) ECON 450. Global Economy (4)
 - ECON 520. Social Economics (4)
- 4. Four units of additional economics courses.

BUSINESS ECONOMICS CONCENTRATION

The College of Business and Public Administration offers a concentration in business economics within its Bachelor of Arts degree. See Page 69 for details.

DEPARTMENTAL HONORS

Departmental honors will be awarded upon graduation to students majoring in economics who have:

- 1. 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**=D4) (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)

311. Economics in the Elementary and Middle School

Introduces liberal studies students to economics in the California History/Social Science Standards. Students learn to integrate economic principles and theories with the other social sciences. May not be counted toward fulfillment of requirements in the economics major. (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: Money, Sex, Race, and Power

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= G2) (4 units)

357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People

Examination of lesbian, gay, bisexual and transgendered (LGBT) households and individuals within the economy, including topics such as "gay consumer market," the division of labor within LGBT households, and discrimination based on sexual orientation. (Also offered as WSTD 357. Students may not receive credit for both.) (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)

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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)

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 and 202. (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. (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. Global Economy

Examines factors that give rise to uneven economic growth and economic interdependence among nations. Investigates the organizations and rules of conduct of the global economy. Assesses the costs and benefits of globalization to nations. (4 units)

460. Labor Economics

Micro- and macroeconomic aspects of labor markets including the workings of labor markets in competitive and noncompetitive 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. Quantitative Methods in Economics

Application of mathematical tools and concepts in formulating and solving economic problems. Prerequisites: ECON 200, 202, and MATH 110 or 120. (4 units)

490. Introduction to Econometrics

Various statistical methods of testing economic hypotheses. Prerequisites: ECON 200, 202, MATH 110, and ECON 250 or SCM 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)

571. Economics of Sports

Investigation of professional and amateur sports using economic analysis, including topics such as the impact of media, player-management relations and unionization, the determination of player salaries, and public financing of new arenas and stadiums. Formerly a topic under ECON 390. (4 units)

573. Economics of Crime

Economic analysis of criminal behavior, the criminal legal system, and government anti-crime policies, including topics such as the economic costs and benefits of sentencing policies, capital punishment, drug enforcement laws, and the criminal justice system budgets. Formerly a topic under ECON 390. (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. (1 to 4 units)

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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 370.

EDUCATION

College of Education

Faculty Office Building, Room 182 (909) 537-5600 http://www.csusb.edu/coe/

Basic Teaching Credential Programs

Accredited by the National Council for Accreditation of Teacher Education (NCATE) Multiple Subject Multiple Subject Bilingual, Crosscultural, Language and Academic Development (BCLAD) Multiple Subject Credential and Multiple Subject Credential with Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) (Intern Track) Single Subject Single Subject (Intern Track) Designated Subjects (Vocational and Adult Education) (The following credentials can be found beginning on Page 387.) Preliminary Level I Education Specialist Credential: Early Childhood Special Education Professional Clear Level II Education Specialist Credential: Early Childhood Special Education Internship Education Specialist Credential: Early Childhood Special Education Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities Internship 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: Moderate/Severe Disabilities Master of Arts in Education Bilingual/Cross-Cultural Career and Technical Education Correctional and Alternative Education

Curriculum and Instruction **Environmental Education** Health Education Holistic and Integrative Education Instructional Technology Kinesiology Language, Literacy and Culture (Primary Language) and **BCLAD** Credential Reading/Language Arts Science Education Special Education Teaching English to Speakers of Other Languages (Degree requirements can be found on beginning Page 372.)

Master of Arts

Educational Administration (Degree requirements can be found on Page 418.) Rehabilitation Counseling (Degree requirements can be found on Page 472.)

Master of Science

Counseling and Guidance (Degree requirements can be found on Page 364.)

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: Early Childhood Special Education Professional Clear Level II Education Specialist Credential: Early Childhood Special Education Internship Education Specialist Credential: Early Childhood Special Education Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities Internship 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: Moderate/Severe 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 beginning on Page 386.)

Certificate Programs

Crosscultural, Language and Academic Development (CLAD) Early Adolescent Education Early Childhood Special Education Education of the Gifted and Talented **Educational Professional Services** Educational Technology Environmental Education Reading/Language Arts Rehabilitation Counseling School Business Management (Certificate requirements can be found beginning on Page 398.)

Specialist Certificate Program

Resource Specialist in Special Education (Certificate requirements can be found on Page 400.)

Vocational Education

Bachelor of Vocational Education Bachelor of Science (Degree requirements can be found on Page 320.)

Division of Teacher Education

Credentials Office (C.A.S.E.) Chaparral Hall, Room 123, (909) 537-5609 http://www.csusb.edu/coe/case/

Masters Program Office and Advanced Credentials University Hall, Room 171, (909) 537-5293

http://www.csusb.edu/coe/mac/office/index.html

Multiple Subject Faculty Office Building, Room 125, (909) 537-5650 http://www.csusb.edu/coe/teo/index.html

Single Subject

Faculty Office Building, Room 125, (909) 537-5650 http://www.csusb.edu/coe/teo/index.html

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Special Education

Faculty Office Building, Room 110, (909) 537-7406 Supervision Office Faculty Office Building, Room 130, (909) 537-5698

http://www.csusb.edu/coe/so/index.html

Department of Educational Leadership and Curriculum

Faculty Office Building, FO-144, (909) 537-7404 http://www.csusb.edu/coe/elc/index.html

FACULTY: Alexander Aitcheson, Linda Braatz-Brown, Juan Gutierrez, Phyllis Hensley, James Hill, Tootie Killingsworth, Angela Louque (Chair), Ruth Norton, Deborah Stine, Stanley Swartz, Al Wolf (Emeritus) MASTERS: Curriculum and Instruction

Curriculum and Instruction Educational Administration

Department of Educational Psychology and Counseling

Faculty Office Building, FO-249, (909) 537-5606 http://www.csusb.edu/coe/epc/index.html

FACULTY: Patricia Arlin, Laura Ashcroft, Richard Ashcroft, Susan Brotherton, Margaret Cooney, Susan Daniels, Carolyn Eggleston, Thom Gehring, Young Suk Hwang, Todd Jennings, Kurt Kowalski, Camille Mayers, Kathleen Phillips, Gary Sherwin, Ruth Sandlin (Chair), Donna Schnorr, Sue Spitzer, Dwight Sweeney, Roy Thurston, Joseph Turpin, Michael Verdi, Dudley Wiest, John Winslade, Randall Wright

MASTERS: Educational Counseling Rehabilitation Counseling Special Education

Department of Language, Literacy and Culture

Faculty Office Building, FO-138, (909) 537-7405

http://www.csusb.edu/coe/llc/index.html

MASTERS:

FACULTY: Maria Balderrama, Charlotte Black, Diane Brantley, Mary Jean Comadena, Sam Crowell, Lynne Diaz-Rico, Barbara Flores, Monica Garcia, Rosalie Giacchino-Baker, Kimberly Hartnett, Jose Hernandez, Ina Katz, Barbara Larrivee, Robert London, Corinne Martinez, Marjorie McCabe, Enrique Murillo, Gary Negin, Bonnie Piller, Judy Rymer (Emeritus), Mary Jo Skillings (Chair), Alayne Sullivan, Nena Torrez, Laura Young

> Bilingual/Cross-Cultural Reading/Language Arts Teaching English to Speakers of Other Languages

Department of Science, Mathematics and Technology Education

Chaparral Hall, Room 107, (909) 537-5290 http://www.csusb.edu/coe/smte/index.html

FACULTY: Eun-Ok Baek, Bonnie Brunkhorst, Herbert Brunkhorst (Chair), Joseph Jesunathadas, Amy Leh, James Mason, Brian Newberry, Ron Pendleton, Iris Riggs, Sylvester Robertson, 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

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 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 or Multiple Subject Bilingual Crosscultural, Language and Academic Development (BCLAD) Credential (intern track) for teaching in a self-contained classroom (K-12) with a bilingual or dual immersion program,
- Single Subject Credential for teaching a single subject in a departmentalized school (all grades),
- Single Subject Credential (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 320.

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 371. 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 320.

BASIC TEACHING CREDENTIALS

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 CREDENTIAL

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 Handbook for the Multiple Subject Credential Programs at the Coyote Bookstore and attend an orientation session scheduled through the Teacher Education Office, FO-125. 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 the prerequisite courses and successfully completed or be currently enrolled in the pre/corequisite courses.

Admission to the Program

Students must submit a Program Admission File (PAF) to C.A.S.E. (Credential Assistance for Students in Education, CH-123) at least one quarter prior to enrolling in credential courses.

Students are advised to complete the required California Basic Educational Skills Test (CBEST). Students must provide verification of passing scores on this exam 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. Written verification of a passing score on the CSET examination (credential must be completed within five years of passing the CSET examination;)
- 3. Two written recommendations by persons who can address scholastic performance and suitability for teaching;

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- 4. Present a written, personal narrative to the assigned education advisor, complete the teacher education interview and obtain the signature of the advisor. The following criteria are used to assess the interview: oral and written English language usage, professional aptitude, personality and character;
- Verification of a negative tuberculin examination within the last 5. four years;
- 6. 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 the prerequisite 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.

- 7. Documentation of 45 hours of experience in K-12 classrooms; (Information about this requirement is available in the Handbook for the Multiple Subject Credential Programs.)
- 8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- 9. Completion of a community college or university computer course or an on-line technology skills assessment;
- 10. Written verification that the California Basic Educational Skills Test (CBEST) has been taken or passing score on CBEST;
- 11. Satisfactory completion of prerequisite courses:
- A. ENG 311. The English Language
 - B. One of the following:

EELB 301.	Growth and Development in Socio-
	Educational Contexts (4)
HD 240.	Introduction to Child Development (4) and a
	concurrent observation course (2)

- 12. Satisfactory completion of or current enrollment in:
 - A. HSCI 100. Concepts in Health (4)
 - B. One of the following; ESPE 350. Introduction to Special Populations for General Education Teachers (4) PSYC 350. Development of Exceptional Children (4)

Admission to Supervised Student Teaching

One quarter in advance of the time students intend to enroll in supervised student teaching (EELB 540A), they must submit an application for supervision. This application is due by Friday of the third week of the guarter 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. Verification that the applicant has passed the California Basic Educational Skills Test (CBEST);
- 3. Satisfactory completion of HSCI 100 and either PSYC 350 or ESPE 350 and Phase I coursework (EELB 312, 313, 315, 317 and 519) with a grade point average of 3.0 ("B") and no course grade lower than "B-" and no non-education course grade lower than a "C" (2.0);
- 4. Verification of a negative tuberculin examination within the last 4 years;
- 5. 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. (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)

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 guarter each of EELB 540A (and 422, 423, 425, 529) and EELB 540B (and 532, 533 and 539). 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 422, 423, 425, 529, 532, 533, 539, 540A or 540B will be denied continuation in the program. An appeal process is available. Consult the program director for details.

Program prerequisites (10 units)

- 1. Students entering the program must have successfully completed:
 - A. ENG 311. The English Language (4)
 - B. One of the following:
 - EELB 301. Growth and Development in Socio-Educational Contexts (4) HD 240. Introduction to Child Development (4) and a concurrent observation course (2)

Program prerequisites or corequisites (6 units)

- 1. Students entering the program must have successfully completed or be currently enrolled in:
 - A. HSCI 100. Concepts in Health (2)
 - B. One of the following: ESPE 350. Introduction to Special Populations for
 - General Education Teachers (4) PSYC 350. Development of Exceptional Children (4)

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

- 1. EELB 312. Family, Culture and Schooling (2)
- 2. EELB 313. Pedagogical Foundations for English Language Learners (4)
- 3. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
- 4. EELB 317. Educational Psychology for a Diverse Society (4) Assessment Seminar I (2)

5. EELB 519.

Phase II

First quarter of student teaching

- 1. EELB 422. Classroom Organization, Management and Discipline (2)
- 2. EELB 423. Mathematics Curriculum and Pedagogy (4) 3. EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond (3)
- 4. EELB 529. Assessment Seminar II (2)
- 5. EELB 540A. Supervised Student Teaching in Multiple Subjects (6)

Phase III

Second guarter of student teaching

- Science/Health Curriculum and Pedagogy (4) 1. EELB 532. 2. EELB 533. Social Studies and the Arts Curriculum and
- Pedagogy (4) 3. EELB 539. Assessment Seminar III (2)
- 4. EELB 540B. Supervised Student Teaching in Multiple Subjects (6)

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Additional Requirements

Students must successfully 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)
- 2. The Reading Instruction Competence Assessment (RICA) exam with a passing score;
- 3. The teacher performance assessment with a passing score.

Upon successfully completing the program and additional requirements above, candidates are eligible to apply for the preliminary credential.

- Requirements for the Professional Clear Credential may be obtained from the employing school district.
 - **Note:** Students must consult the current information sheet for this credential in the Teacher Education Office, FO-125. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher Education Office.

MULTIPLE SUBJECT BILINGUAL, CROSS-CULTURAL, LANGUAGE AND ACADEMIC DEVELOPMENT (BCLAD) CREDENTIAL

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 Handbook for the Multiple Subject Credential Programs in the Coyote Bookstore and attend an orientation session scheduled through the Teacher Education Office, FO-125. 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 the prerequisite courses and successfully completed or be currently enrolled in the pre/ corequisite courses.

Admission to the Program

Students must submit a Program Admission File (PAF) to C.A.S.E. (Credential Assistance for Students in Education, CH-123) at least one quarter prior to enrolling in credential courses.

Students are advised to complete the required California Basic Educational Skills Test (CBEST). Students must provide verification of passing scores on this exam 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 application form;
- Written verification of a passing score on the CSET examination (credential must be completed within five years of passing the CSET examination);
- 3. Two written recommendations by persons who can address scholastic performance and suitability for teaching;
- 4. Present a written, personal narrative to the assigned education advisor, complete the teacher education interview and obtain signature of the advisor. The following criteria are used to assess the interview: oral and written English and Spanish language usage, professional aptitude, personality and character;
- 5. Verification of a negative tuberculin examination within the last 4 years;
- 6. 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 the prerequisite 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.

- 7. Documentation of 45 hours of experience in K-12 classrooms; (Information about this requirement is available in the Handbook for the Multiple Subject Credential Programs.)
- Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- 9. Completion of a community college or university computer course or an on-line technology skills assessment;
- 10. Written verification that the California Basic Educational Skills Test (CBEST) has been taken or passing score on CBEST;
- 11. Satisfactory completion of prerequisite courses:
 - A. ENG 311. The English Language (4)
 - B. One of the following:
 - EELB 301. Growth and Development in Socio-Educational Contexts (4) HD 240. Introduction to Child Development (4) and a
- concurrent observation course (2)
- 12. Satisfactory completion of or current enrollment in:
 - A. HSCI 100. Concepts in Health (2)
 - B. One of the following;
 - ESPE 350. Introduction to Special Populations for General Education Teachers (4)
 - PSYC 350. Development of Exceptional Children (4)

Admission to Supervised Student Teaching

One quarter in advance of the time students intend to enroll in student teaching (EELB 540A), they 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. Verification that the applicant has passed the California Basic Educational Skills Test (CBEST);
- Satisfactory completion HSCI 100 and Phase I coursework (EELB 312, 313, 316, 317 and 519) with a grade point average of 3.0 ("B") in education, with no course grade lower than "B-" and no non-education course grade lower than a "C" (2.0);
- 4. Verification of a negative tuberculin examination within the last 4 years;
- 5. 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. (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)

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.

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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 540A (and 422, 423, 425, 529) and EELB 540B (and 532, 534, and 539). No concurrent course work should be taken beyond the elementary education courses without permission of the program director.

Students who fail to complete EELB 422, 423, 425, 529, 532, 534, 539, 540A or 540B will be denied continuation in the program. An appeal process is available. Consult the program director for details.

Program prerequisites (10 units)

- 1. Students entering the program must have successfully completed:
 - A. ENG 311. The English Language (4)
 - B. One of the following:

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EELB 301.	Growth and Development in Socio-
	Educational Contexts (4)
HD 240.	Introduction to Child Development (4) and
	concurrent observation course (2)

Program prerequisites or corequisites (6 units)

- 1. Students entering the program must have successfully completed or be currently enrolled in:
 - A. HSCI 100. Concepts in Health (2)
 - B. One of the following;
 - ESPE 350. Introduction to Special Populations for General Education Teachers (4)
 - PSYC 350. Development of Exceptional Children (4)

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 312. Family, Culture and Schooling (2)
 EELB 313. Pedagogical Foundations for English Language Learners (4)
 EELB 316. Reading/Language Arts (Primary Language) Curriculum and Pedagogy (3)
 EELB 317. Educational Psychology for a Diverse Society (4)
 EELB 519. Assessment Seminar I (2)
 Phase II
 First quarter of student teaching
- EELB 422. Classroom Organization, Management and Discipline (2)
 EELB 423. Mathematics Curriculum and Pedagogy (4)
 EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond (3)
 EELB 529. Assessment Seminar II (2)
 EELB 540A. Supervised Student Teaching in Multiple Subjects (6)

Phase III

Second quarter of student teaching

 EELB 532. Science/Health Curriculum and Pedagogy (4)
 EELB 534. Social Studies and the Arts (Primary Language) Curriculum and Pedagogy (4)
 EELB 539. Assessment Seminar III (2)
 EELB 540B. Supervised Student Teaching in Multiple Subjects (6)

Additional Requirements

Students must successfully complete:

- I. Both of the following: HUM 335. The Origin and Contemporary Role of Latino Culture (4) SPAN 415. Comparative Linguistics: Spanish/English (4)
 - SPAN 415. Comparative Linguistics: Spanish/English (4) (This course has prerequisites.)

- 2. 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;
- 4. The teacher performance assessment with a passing score.

Upon successfully completing the program and additional requirements above, candidates are eligible to apply for a basic preliminary credential.

Requirements for the Professional Clear Credential may be obtained from the employing school district.

Note: Students must consult the current information sheet for this credential in the Teacher Education Office, FO-125. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher Education Office.

MULTIPLE SUBJECT CREDENTIAL and MULTIPLE SUBJECT CREDENTIAL with Bilingual, Crosscultural Language and Academic Development Emphasis (BCLAD) (INTERN TRACK)

Requirements (60 units)

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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 the prerequisite courses and successfully completed or be currently enrolled in the pre/corequisite courses.

Admission to the Program

Students must submit a Program Admission File (PAF). The PAF is to be submitted to C.A.S.E. (Credential Assistance for Students in Education, CH-123) at least one quarter prior to enrolling in program courses.

Admission to the intern track, as part of the PAF is based on the following criteria and conditions:

- 1. Completion of an application form;
- Written verification of a passing score on the CSET examination (credential must be completed within five years of passing the CSET examination);
- Three written recommendations by persons who can address the scholastic performance and suitability for teaching, at least one from the current employer;
- 4. Present a written, personal narrative to the assigned education advisor, complete the teacher education interview and obtain the signature of the advisor. The following criteria are used to assess the interview: oral and written English and for BCLAD Spanish language usage, professional aptitude, personality and character;

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- Verification of a negative tuberculin examination within the last 4 years;
- 6. 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 the prerequisite 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;

- Documentation of 45 hours of experience in K-12 classrooms such as instructional aide or substitute teacher; (Information about this requirement is available in the Handbook for the Multiple Subject Credential Programs.)
- Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- Completion of a community college or university computer course or an on-line technology skills assessment;
- Written verification of a passing score on the California Basic Educational Skills Test (CBEST);
- 11. 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.)
- 12. 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)
- 13. Completion of a bachelor's degree;
- 14. Satisfactory completion of prerequisite courses:
 - A. ENG 311. The English Language (4)
 - B. One of the following:
 - EELB 301. Growth and Development in Socio-Educational Contexts (4) HD 240. Introduction to Child Development (4) and a concurrent observation course (2)
- 15. Satisfactory completion of or current enrollment in:
 - A. HSCI 100. Concepts in Health (2)
 - B. One of the following;
 - ESPE 350. Introduction to Special Populations for General Education Teachers (4) PSYC 350. Development of Exceptional Children (4)

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 Handbook for Multiple Subject Credential Programs.)

Candidates apply for an intern credential once they are admitted to the intern track and have secured a job. The intern is employed full time in a multiple subject teaching assignment in an approved cooperating school district while enrolled in program coursework. The CSUSB Intern Track may begin in any quarter and continues for a maximum timeline of two years. If a candidate does not secure a job, he/she may pursue the basic credential program as a student teacher.

Program prerequisites (10 units)

- 1. Students entering the program must have successfully completed:
 - A. ENG 311. The English Language (4)
 - B. One of the following:

EELB 301.	Growth and Development in Socio-
	Educational Contexts (4)
HD 240.	Introduction to Child Development (4) and a
	concurrent observation course (2)

Program prerequisites or corequisites (6 units)

- 1. Students entering the program must have successfully completed or be currently enrolled in:
 - A. HSCI 100. Concepts in Health (2)
 - B. One of the following: ESPE 350. Introduction to Spec
 - ESPE 350. Introduction to Special Populations for General Education Teachers (4) PSYC 350. Development of Exceptional Children (4)

Credential Requirements (60 units)

Completion of the following coursework with a grade point average of 3.0 ("B") with no course grade lower than "B-."

Phase I: Pre-supervision

- 1. EELB 312. Family, Culture and Schooling (2)
- 2. EELB 313. Pedagogical Foundations for English Language
- Learners (4) 3. Three units chosen from:
 - EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
 - EELB 316. Reading/Language Arts (Primary Language) Curriculum and Pedagogy (3)
- 4. EELB 317. Educational Psychology for a Diverse Society (4)
- 5. EELB 519. Assessment Seminar I (2)

Admission to Supervised Intern Teaching

One quarter in advance of the time students intend to enroll in Phase II courses (EELB 422, 423, 425, and 560A), they must submit an application for supervision. This application is due by Friday of the third week of the quarter prior to enrolling in supervised intern teaching. (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;
- Satisfactory completion of HSCI 100 and either ESPE 350 or PSYC 350 and Phase I course work with a grade point average of 3.0 ("B") and no course grade lower than "B-;"
- 3. 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

First quarter of supervised intern teaching

- 1. EELB 422. Classroom Organization, Management and Discipline (2)
- 2. EELB 423. Mathematics Curriculum and Pedagogy (4)
- 3. EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond (3)

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4	. EELB 560A.	Supervised Intern Teaching in Multiple
		Subjects (8)
F	hase III	
S	Second quarter of	supervised intern teaching
1	. EELB 532.	Science/Health Curriculum and Pedagogy (4)
2	. EELB 529.	Assessment Seminar II (2)
3	. EELB 560B.	Supervised Intern Teaching in Multiple
		Subjects (8)
F	hase IV	
Т	hird quarter of su	pervised intern teaching
1	. Four units cho	sen from:
	EELB 533.	Social Studies and the Arts Curriculum and
		Pedagogy (4)
	EELB 534.	Social Studies and the Arts (Primary Language)
		Curriculum and Pedagogy (4)
2	. EELB 539.	Assessment Seminar III (2)

EELB 560C. Supervised Intern Teaching in Multiple 3. Subjects (8)

Additional Requirements

Students must successfully complete:

For Multiple Subject BCLAD interns only:

Both of the following to meet language and culture requirements:

- 1. HUM 335. The Origin and Contemporary Role of Latino Culture (4)
- 2. SPAN 415. Comparative Linguistics: Spanish/English (This course has prerequisites.) (4)

For Multiple Subject and Multiple Subject BCLAD interns:

- 1. The Reading Instruction Competence Assessment (RICA) exam with a passing score.
- The teacher performance assessment with a passing score. 2. Upon successfully completing the program and additional requirements above, candidates are eligible to apply for a the preliminary credential.

Requirements for the Professional Clear Credential may be obtained from the employing school district.

Students must consult the current information sheet for Note: this credential in the Teacher Education Office, FO-125. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher Education Office.

SINGLE SUBJECT TEACHING CREDENTIAL -**Student Teaching Track**

Requirements (48 units)

Admission to the university must precede admission to the credential program. This is a three-quarter program that begins in the Fall Quarter for full-time students. Part-time students can complete the program in two years (or five quarters) and can enroll in the program in the Fall or Winter Quarter.

Admission to the Program and Student Teaching

In addition to the general requirements for the university, students must meet specific requirements for admission to the student teaching track prior to enrolling in the program:

- 1. Successfully complete the California Basic Educational Skills Test (CBEST):
- 2. Demonstrate Subject Matter Competency (SMC) in the content area they plan to teach. Subject Matter Competency can be demonstrated by having a degree from a California Commission on Teacher Credentialing (CCTC) waiver program or passing (if necessary) the appropriate CSET and/or Single Subject Assessment for Teaching (SSAT) examination as early as possible in order to be able to provide verification of passing scores with their application for admission to the program;

- 3. Complete the Program Application File (PAF) and submit to the C.A.S.E. Office;
- 4. Two written recommendations, at least two from faculty members in the student's major department;
- 5. Meet with and obtain signature of a Secondary Education faculty member on an advising form or attend a program advisory meeting to determine requirements of the program;
- 6. Verification of a negative tuberculin examination within the last 24 months:
- 7. Academic Achievement
 - A. Applicants must possess the following minimum grade point averages:
 - 1. A grade point average of 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 90 guarter 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.

- 8. Complete A or B below:
 - A. Completion of one of the following approved subject matter preparation programs or these majors at this university:

Single Subject	
Credential	Degree Major
Art	B.A. Art (Plan I)
English	B.A. English
Foreign Language	B.A. Spanish or
	B.A. French
Health Science	B.S. Health Sciences
Foundational Mathematics/	B.A. Mathematics
Mathematics	B.S. Mathematics
Music	B.A. Music (Music
	Education)
Physical Education	B.S. Kinesiology
Sciences	B.A. in the Sciences
	B.S. in the Sciences
Social Science	B.A. Social Sciences

Social Science

For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the Teacher Education Office and/or the appropriate major department.

- Completion of the CSET (California Subject Examination for Β. Teachers) and/or the Single Subject Assessment for Teaching (SSAT) in the specialty teaching area the student is planning to teach;
- 9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- 10. 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 39 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.)
- 11. Written verification a passing score on the CBEST;
- 12. In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and interest in multicultural education;

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13. 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. Students transferring units from another institution may be required to take HSCI 100 and ESPE 350.

Each applicant must complete SMC and have a B.A. degree in the content area they are planning to teach before student teaching and internship teaching and associated courses. Student teaching for the preliminary credential is a full-time assignment for three quarters (ESEC 550A, 550B and 550C) that only begins in the fall or winter quarters. No concurrent course work should be taken beyond the required for that quarter without permission from the director of the Single Subject Program. Students who fail to successfully complete any program courses will be denied continuation in the program. An appeals process is available. Consult the Teacher Education Office for details.

Credential Requirements for Student Teaching One Year Program

Once admission to the program has been granted and program requirements have been successfully completed, students may enroll in the following courses. Students must successfully complete all the courses in each quarter before enrolling in subsequent quarters.

First Quarter: Foundational Theories of Secondary Education (16 units)

- 1. ESEC 405. Introduction to Secondary School Culture (4)
- 2. ESEC 407. Secondary School Teaching (4)
- 3. ESEC 410. Adolescent Development and Learning (4)
- 4. ESEC 505. Curriculum and Instruction in the Content Areas I (2)
- 5. ESEC 550A. Student Teaching Experience (2) (These courses must be taken concurrently.)

Second Quarter: Classroom Perspectives (16 units)

1.	ESEC 413.	Language Interaction in the Classroom (4)
2.	ESEC 417.	Educational Psychology: Instructional Theory,
		Assessment and Classroom Management (4)

- ESEC 508. Curriculum and Instruction in the Content Areas II (2)
 ESEC 512. Principles of Pedagogy (2)
- 5. ESEC 550B. Student Teaching (4)

Third Quarter: Implementation of Reflection on Instruction (16 units)

- 1. ESEC 419. Literacy Across the Curriculum (4)
- 2. ESEC 514. Assessment and Reflection of Instruction (2)
- 3. ESEC 550C. Student Teaching (8)
- 4. ESEC 602. Special Topics in Secondary Education (2)

Credential Requirements for Student Teaching Two Year Program

Once admission to the program has been granted and all program requirements have successfully been completed, students may enroll in the following courses. Students must successfully complete all the courses in each quarter before enrolling in subsequent quarters and Subject Matter Competency.

Foundational Theories of Secondary Education and Classroom Perspectives

First Quarter

1.	ESEC 405.	Introduction to Secondary School Culture (4)
2.	ESEC 410.	Adolescent Development and Learning (4)
3.	ESEC 505.	Curriculum and Instruction of Content Area I (2)
Se	cond Quarter	
1.	ESEC 407.	Secondary School Teaching (4)
2.	ESEC 413.	Language Interaction in the Classroom (4)
3.	ESEC 508.	Curriculum and Instruction of Content Area II (2)

Third Quarter

1.	ESEC 417.	Educational Psychology: Instructional Theory, Assessment and Classroom Management (4)
2.	ESEC 419.	Literacy Across the Curriculum (4)
3.	ESEC 550A.	Student Teaching Experience (2)
Fourth Quarter		
1.	ESEC 512.	Principles of Pedagogy (2)
2.	ESEC 550B.	Student Teaching (4)
3.	ESEC 602.	Special Topics in Secondary Education (2)
Fifth Quarter		
1.	ESEC 514.	Assessment and Reflection on Instruction (2)
2.	ESEC 550C.	Student Teaching (8)

Additional Information

Students who fail to successfully complete any program course with a "B-" or better will be denied continuation in the program. An appeal process is available. Consult the Teacher Education Office for details.

Upon completing all requirements for the single subject program, the candidate will be awarded a certificate of completion from California State University, San Bernardino and may apply for a preliminary credential.

Within two years candidates must complete an Induction Program that is offered by the school district in which they secure employment. Preliminary credential students may obtain a professional clear credential by meeting the Induction Program of the school district.

SINGLE SUBJECT CREDENTIAL-INTERN TRACK

Requirements (56 units)

The single subject internship is an alternate program for those student teachers who have been placed in an employed setting. This is a five-quarter program that begins in the Fall or Winter Quarter.

Admission to the Program

In addition to the general admission requirements for the university, students must meet the following requirements prior to enrolling in the student teaching track:

- 1. Successfully complete the California Basic Educational Skills Test (CBEST);
- 2. Demonstrate Subject Matter Competency (SMC) in the content area they plan to teach. Subject Matter Competency can be demonstrated by having a degree from a California Commission on Teacher Credentialing (CCTC) waiver program or passing (if necessary) the appropriate CSET and/or Single Subject Assessment for Teaching (SSAT) examination as early as possible in order to be able to provide verification of passing scores with their application for admission to the program.
- 3. Successfully complete the U. S. Constitution requirement, CPR examination and be employed in a district that has an internship contract with the Division of Teacher Education.

Admission to the Program

Interns must turn in a Program Application File (PAF) with all the information to the C.A.S.E. Office, CH-123. Candidates will not be considered until all the following information is provided:

- Two letters 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;
- Meeting with education advisor and signed advising form or attend a program advisory meeting to determine requirements of the program;

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- 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. Written verification of CCTC waiver program or passing the California Subject Examinations for Teachers (CSET), and/or the Single Subject Assessment for Teaching (SSAT) in the content area in which the candidate is planning to teach.
- 5. Completion of one of the following approved subject matter preparation programs within one of these majors 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

	ucation Onice.
Single Subject	
Credential	Degree Major
Art	B.A. Art (Plan I)
English	B.A. English
Foreign Language	B.A. Spanish or
	B.A. French
Health Science	B.S. Health Sciences
Foundational Mathematics/	B.A. Mathematics
Mathematics	B.S. Mathematics

mainemailee	B.C. Mathematice
Music	B.A. Music (Music
	Education)
Physical Education	B.S. Kinesiology
Sciences	B.A. in the Sciences
	B.S. in the Sciences
Social Science	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 CSET (California Subject Examination for Teachers) and/or the Single Subject Assessment for Teaching (SSAT) in the specialty teaching area the student is planning to teach:

- Submit passage of the U.S. Constitution requirement and the 6 CPR examination:
- 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.)
- Submission of evidence that the applicant has passed the Cali-8. fornia Basic Educational Skills Test (CBEST);
- Interns must be employed in a school district or school site that 9. has an internship contract with the College of Education.
- 10. 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 or internship teaching is never transferable. Students transferring units from another institution may be required to take HSCI 100 and ESPE 350.

Each applicant is reviewed in terms of all of the above criteria. In addition, internship teaching for the preliminary credential is a fulltime assignment for five quarters that only begins in the fall, winter or spring quarters. No concurrent course work should be taken beyond the required program courses without permission from the program coordinator.

Students who fail to successfully complete any aspect of the program will be denied continuation in the program. Students must continue to be employed in a school district that has an internship contract agreement with the Teacher Education Office in their content area for two years. An appeal process is available. Consult the Teacher Education Office for details.

First Year

Foundational Theories of Secondary Education **Requirements for Internship Program** First Quarter (12 units)

- 1. ESEC 405. Introduction to Secondary School Culture (4)
- 2. ESEC 407. Secondary School Teaching (4)
- 3. ESEC 505. Curriculum and Instruction in the Content
- Areas I (2) 4. ESEC 555. Internship Seminar I (2)

Second Quarter (16 units)

- ESEC 410. Adolescent Development and Learning (4) 1.
- 2. ESEC 413. Language Interaction in the Classroom (4)
- ESEC 508. Curriculum and Instruction in the Content 3. Areas II (2)
- 4. ESEC 570A. Intern Supervision (6)

Third Quarter (10 units)

- 1. ESEC 417. Educational Psychology Instructional Theory, Assessment and Classroom Management (4) 2. ESEC 419. Literacy Across the Curriculum (4)
- Internship Seminar II (2)
- 3. ESEC 556.

Second Year

Implementation of Reflection on Instruction

- Admittance to the second year will be satisfactory completion of the first year of the program.
- First Quarter (8 units)
- 1. ESEC 512. Principles of Pedagogy (2)
- 2. ESEC 570B. Intern Supervision (6)

Second Quarter (10 units)

Students must successfully pass ESEC 512 before enrolling in these second quarter classes.

- 1. ESEC 514. Assessment and Reflection on Instruction (2)
- ESEC 570C. Intern Supervision (6) 2.
- ESEC 602. Special Topics in Secondary Education (2) 3

Applications for intern candidacy must be submitted in the guarter prior to the commencement of the internship. 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.

Additional Requirements

Upon completing the requirements for the internship program, candidates may apply for a preliminary credential. Within two years candidates must complete an induction program in the district in which they are employed to meet additional CCTC requirements to obtain a professional clear credential.

Note: Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential in the Teacher Education Office, FO-125. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher 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.

Credential Requirements

Part-time Credential (12 units)

- EVOC 501. Principles and Methods for Teaching Designated Subjects (4)
 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 320.

Health education requirement

(Full-time and Part-time Credentials):

1. One of the following to fulfill the health education requirement: HSCI 332. Health Education in the Elementary 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 418)
- EDCA Correctional and Alternative Education
- ECLG Educational Counseling (listed on Page 364)
- EDCI Curriculum and Instruction
- EDSC Science Education (listed on Page 411)
- EELB Elementary Education
- EENV Environmental Education (listed on Page 409)
- EESL English as a Second Language
- ERDG Reading Education (listed on Page 410)
- EREH Rehabilitation Counseling (listed on Page 473)
- ESEC Secondary Education
- ESPE Special Education
- ETEC Instructional Technology
- EVOC Vocational Education (listed on Pages 320, 416)

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**=F1) (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. (1 to 5 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. (1 to 4 units)

COURSE OFFERINGS IN CORRECTIONAL AND ALTERNATIVE EDUCATION (EDCA)

Upper Division

514. Foundations of Institutional Education: History and Literature

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 EDCA 614. Students may not receive credit for both.) Students in EDCA 614 must complete additional requirements. Formerly EDUC 574. (4 units)

516. Teaching the Institutional Student

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 EDCA 616. Students may not receive credit for both.) Students in EDCA 616 must complete additional requirements. Formerly EDUC 580. (4 units)

518. Social and Cultural Dynamics of Institutional Education

Interpersonal communication and professional identity issues as they relate to the meanings of everyday events in schools and schooling within confinement institutions. Emphases include postmodernism and approaches of communication and critical theories. Addresses issues such as culture shock, typical experiences of institutional educators, the struggle for recognition and respect, burnout and coping strategies to help avoid it, and retributive and restorative justice. (Also offered as EDCA 618. Students may not receive credit for both.) Students in EDCA 618 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

520. Educational Change in Institutional Settings

Reforming prisoners and prisons through democratic methods. Emphasizes student learning and personal/professional growth. (Also offered as EDCA 620. Students may not receive credit for both.) Students in EDCA 620 must complete additional requirements. Formerly EDUC 575. Prerequisite or corequisite: EDCA 514. (4 units)

528. Special Education in Correctional Institutions

Meeting the statutory/regulatory requirements of Federal- and State-funded education for disabled learners in confinement institutions. Special emphases include the identification of students with disabilities, definitions of a free and appropriate public education, staffing and records maintenance, confidentiality and due process, parental involvement, and the impact of current legislation. Historic and legal case histories are addressed, as well as current trends. (Also offered as EDCA 628. Students may not receive credit for both.) Students in EDCA 628 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

530. Alternative and Correctional Education

Similarities of alternative and correctional education students, and dissimilarities of organizational configuration and location in government. Introduction to the history and literature of alternative education, its role in selected urban and rural communities, and current trends. Includes the effects of educational reform, innovations consistent with the aspiration for multicultural education, and the teaching implications for the shift from a behavioral to a cognitive psychological base. (Also offered as EDCA 630. Students may not receive credit for both.) Students in EDCA 630 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

532. Career and Vocational Education in Correctional Institutions

History and specialized literature of vocational education in correctional institutions, linkages between academic/vocational instruction, and strategies for short- and long-term programs. Includes occupational projections, statutory and regulatory prohibitions for exfelons in the workforce, relationships with the State departments of Education and Labor, and job preparation for traditional and emergent employment opportunities. (Also offered as EDCA 632. Students may not receive credit for both.) Students in EDCA 632 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

534. Correctional Education Leadership

Principles of educational administration, educational supervision, and theories and processes of educational management, within correctional education. (Also offered as EDCA 634. Students may not receive credit for both.) Students in EDCA 634 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

536. Pedagogy and Andragogy in Correctional Institutions

Historic and current differences between the education of children (pedagogy) and of adults (andragogy). Emphases include developmental and transpersonal psychology; rationales and procedures associated with the education of children and adults; the issues of learner motivation, life tasks, and curricular concerns; and the similarities and differences of local school education, correctional and alternative education, and adult education. (Also offered as EDCA 636. Students may not receive credit for both.) Students in EDCA 636 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

538. Organization of Correctional and Alternative Education Service Delivery

Three current modes of institutional education delivery (decentralized, bureau, correctional school district), the origins of institutional education in moral and religious instruction, and alternative and continuation education as offered by court schools, municipalities, and counties. Includes patterns of organization that were designed to support schooling in settings characterized by resource inadequacy. (Also offered as EDCA 638. Students may not receive credit for both.) Students in EDCA 638 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

540. Literacy in Adult Confinement Institutions

Concepts of readiness to learn and developmental tasks, family literacy for incarcerates, prevalence of disabling conditions that impact learning, and the establishment of "third space" alphabetic and cultural literacy strategies. Critique of traditional and current curricular approaches and recent research findings. (Also offered as EDCA 640. Students may not receive credit for both.) Students in EDCA 640 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

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542. Library Services for Alternative and Correctional Students

Historic alliances between the American Correctional Association and the American Library Association; Carnegie Fund and the Adult Education Association; and state, county, and agency library services. Emphases include traditional reading interests of juvenile and adult students in alternative and institutional school programs, readability assessments, various funding sources for library services, and the shift from print-based to digital/online delivery capabilities. (Also offered as EDCA 642. Students may not receive credit for both.) Students in EDCA 642 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

544. Pre- and Post-Release Transitions for Correctional Students

Rationale, program opportunities, and coping skills for the offender employment continuum. Directed to the different tasks confronting students "inside" and "outside" the institution with regard to family life, housing, drug abatement, transportation, community resources, basic domestic requirements and strategies to meet them, and finding and keeping regular employment. (Also offered as EDCA 644. Students may not receive credit for both). Students in EDCA 644 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

546. Comparative Correctional Education

Provision of institutional education in rich and poor nations. Comparison of institutional learning opportunities for students with disabilities in various nations, cultural education, the "normalization" of schooling, and professional networking for institutional educators in selected nations. Various United Nations charges for the development of institutional education, and the European Prison Rules. (Also offered as EDCA 646. Students may not receive credit for both.) Students in EDCA 646 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

584. Special Topics in Correctional and Alternative Education

Lives and works of the great institutional educators and prison reformers, including the personalities, life conditions, and general programs of these contributors, their writings, social and professional networks, and alignment with successive correctional education paradigms. (Also offered as EDCA 684. Students may not receive credit for both.) Students in EDCA 684 must complete additional requirements. May be repeated for credit. Prerequisite or corequisite: EDCA 514. (4 units)

COURSE OFFERINGS IN CURRICULUM AND INSTRUCTION (EDCI)

Upper Division

540. Differentiated Curriculum and Instruction

Methods of designing curriculum and instruction to accommodate differences and diversity in learners, with an emphasis on utilizing differentiated instructional methodologies to meet the needs of gifted learners in the regular classroom. (4 units)

543. Creativity, Thinking and Problem Solving

Emphasis on characteristics, needs and appropriate education of creatively gifted individuals. Strategies for regular classroom applications of creative and critical thinking skills and infusion of problem solving across the curriculum. (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 607 for students in the M.S. in Counseling and Guidance and the Pupil Personnel Services Credentials. Prerequisite: approval of admission portfolio. (4 units)

536. Social-Emotional Development of the Gifted and Talented

Social, emotional and related educational needs of gifted and talented children and youth. (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. (1 to 4 units)

COURSE OFFERINGS IN ELEMENTARY/BILINGUAL EDUCATION (EELB)

Lower Division

230. Introduction to Education

Perspectives on public school teaching for potential elementary teachers. Awareness of the learning/teaching process; the various roles of teachers; the social, historical, and philosophical foundations of education. Preparation for admission to the credential portion of the B.A. in Liberal Studies, Integrated Track. A minimum of 30 hours of observation/participation in public schools grades K-8. (4 units)

285. Service Learning Experience

- A. I: Supervised intensive work performed in the classroom. Requires 60 hours of work/study, including weekly classes. Two units must be completed in a K-3 classroom setting and another two units completed in a 4-8 classroom setting taken in either order. Graded A,B,C/no credit. Formerly EELB 275 and 575. (2 units)
- B. II: Continuation of EELB 285A in either a K-3 or 4-8 classroom setting. Formerly EELB 275 and 575. Graded A,B,C/ no credit. Prerequisite: EELB 285A. (2 units)

Upper Division

301. Growth and Development in Socio-Educational Contexts

Developmental characteristics of children from birth through adolescence in the areas of physical, cognitive, language, emotional, personal, social and moral development. Interaction between individual development and social and educational contexts as affected by culture, language, gender, sexual orientation, socioeconomic status, or 7

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physical/emotional/learning disabilities. Emphasis on creating classrooms which allow equitable access to education for all students. Requires a minimum six-hour field component in an approved setting. Formerly EELB 331. (4 units)

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 317. 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 301A. (4 units)

312. Family, 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 minimum six-hour field component in an approved setting. Formerly EELB 321. Must be taken in the first quarter of enrollment in the credential program and may be taken concurrently with EELB 313, 315 or 316, 317 and 519. Prerequisite: admission to the Multiple Subject Credential Program. (2 units)

313. Pedagogical Foundations for English Language Learners

Overview of various theories, principles and instructional practices designed to develop the linguistic, social and academic proficiency of English language learners. Key issues and concepts include: linguistic development, first and second language acquisition, and the relationship between first language literacy and second language development. Relevant state and federal laws pertaining to the education of English learners, the impact of these mandates on student placement and school site instructional programs, the importance of students' families, cultural backgrounds and experiences and how these relate to successful school experiences for English learners are examined. Requires a minimum six-hour field component in an approved setting. Formerly EELB 333. May be taken concurrently with EELB 312, 315 or 316, 317 and 519. Prerequisite: admission to the Multiple Subject Credential Program. (4 units)

315. Reading/Language Arts Curriculum and Pedagogy

Research-based materials, methods, and strategies for teaching reading/language arts, including explicit systematic, meaningful instruction in basic reading skills and comprehension strategies to meet the needs of English learners, proficient English learners, and learners with special needs including learners with varied reading levels and language backgrounds. Emphasis is on emergent reading and writing behaviors, balanced literacy components, and literature. Requires a minimum six-hour field component including participation with beginning readers in an approved setting. Formerly EELB 445. May be taken concurrently with EELB 312, 313, 317, and 519. Prerequisite: admission to the Multiple Subject Credential Program. (3 units)

316. Reading/Language Arts (Primary Language) Curriculum and Pedagogy

Materials, methods, and strategies for teaching reading/language arts with a focus on substantive research-based instruction, including explicit systematic, meaningful instruction in basic reading skills and comprehension strategies to meet the needs of English learners, proficient English learners with special needs including learners with varied reading levels and language backgrounds. Emphasis is on emergent reading and writing behaviors, balanced literacy components, and literature. Part of the course is taught in Spanish. Requires a minimum six-hour field component including participation with beginning readers in an approved Multiple Subject BCLAD setting. Formerly EELB 446. May be taken concurrently with EELB 312, 313, 317 and 519. Prerequisite: admission to the Multiple Subject Credential Program. (3 units)

317. Educational Psychology for a Diverse Society

Overview of psychological principles applied to education using 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 minimum six-hour field component in an approved setting. Formerly EELB 332. May be taken concurrently with EELB 312, 313, 315 or 316 and 519. Prerequisite: admission to the Multiple Subject Credential Program. (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 301 and 312. (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)

422. Classroom Organization, Management and Discipline

Seminar focusing on knowledge, skills and dispositions required to create and maintain a supportive, healthy environment for student learning. Topics include learning about students, encouraging parental involvement and support, understanding multiple factors that influence behavior, using support personnel, establishing procedures which result in using instructional time effectively, and developing a discipline plan based on research and personal educational philosophy. Must be taken with EELB 540A or 560A. May be taken concurrently with EELB 423, 425 and 529. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I courses. (2 units)

423. Mathematics Curriculum and Pedagogy

Introductory course in curriculum and instruction in mathematics. Emphasis on implementing state adopted mathematics curriculum standards and skills in an elementary classroom based on an in depth understanding of concepts, skills, and strategies in mathematics. Includes designing instruction to meet the academic needs of all learners in a diverse classroom including English learners and learners with special needs. Formerly EELB 441. Must be taken in Phase II with EELB 540A or 560A or by consent of instructor. May be taken concurrently with EELB 422, 425 and 529. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I courses. (4 units)

425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond

Continuation of EELB 315 and 316 which extends the study of literacy development for the intermediate reader and beyond for all learners including English learners, proficient English learners, and learners with special needs. Emphasis on developing higher level academic skills for complex reading, writing, speaking, and thinking; approaches to English language development (ELD); planning for both language and content instruction, literacy in the content areas; development of strategies to build comprehension and fluency; assessment techniques; and transfer of literacy skills from first to second language. Formerly EELB 449. Must be taken concurrently with EELB 540A or 560A. May be taken concurrently with EELB 422, 423, and 529. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I courses. (3 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. Prerequisites: 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)

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 533 or 534. 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 312, EESL 536 or ESEC 321; and EELB 313, 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, 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)

519. Assessment Seminar I

Seminar focusing on knowledge, skills and dispositions required of first-year teachers. Emphasis on content specific and developmentally appropriate pedagogy, characteristics of English learners and learners with special needs, and demonstration of Teacher Performance Expectations 1, 3, 4, 6 and 7. Must be the last course taken in Phase I. Graded credit/no credit. Prerequisite: admission to the Multiple Subject Credential program. Prerequisite or corequisite: all courses in Phase I. (2 units)

529. Assessment Seminar II

Seminar focusing on knowledge, skills and dispositions required of first year teachers. Emphasis on connecting instructional planning to student characteristics for academic learning; designing instruction in physical education; and demonstration of Teacher Performance Expectations 1, 4, 6, 7, 8, 9, and 13. Graded credit/no credit. Corequisite: EELB 540A for student teachers or EELB 560B for intern teachers. Prerequisites or corequisites: EELB 422, 423, 425 for student

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teachers or EELB 532 for intern teachers. Prerequisite: admission to the Multiple Subject Credential program and all Phase I courses for student teachers or all courses in Phase I and II for intern teachers. (2 units)

532. Science/Health Curriculum and Pedagogy

Introductory course in curriculum and pedagogy in science and health. Emphasis on implementing state adopted science and health curriculum standards in an elementary classroom. Includes designing instruction to meet academic needs of all learners including English language learners and learners with special needs. Formerly EELB 443. Must be taken with EELB 540B or 560B for those not in supervision or consent of instructor. Corequisite: must be taken concurrently with EELB 533 or 534 and 539 for student teachers or with EELB 529 for intern teachers. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I and II courses. (4 units)

533. Social Studies and the Arts Curriculum and Pedagogy

Introductory course in curriculum and pedagogy in history/social studies and visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary classroom based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic needs of all learners including English language learners and learners with special needs. Formerly EELB 447. Corequisite: EELB 540B or 560C. May be taken concurrently with EELB 532 and 539 for student teachers or with EELB 539 for intern teachers. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I, II and III courses for intern teachers. (4 units)

534. Social Studies and the Arts (Primary Language) Curriculum and Pedagogy

Introductory course in curriculum and pedagogy in history/social studies and the visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary school based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic and language needs of all learners including Spanish-speaking learners and learners with special needs. Part of the course will be taught in Spanish. Formerly EELB 448. May be taken concurrently with EELB 532 and 539 for student teachers or with EELB 539 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and completion of all Phase I and II courses for student teachers or completion of all Phase I, II, and III courses for intern teachers. Corequisite: EELB 540B or 560C. (4 units)

539. Assessment Seminar III

Seminar focusing on knowledge, skills and dispositions required of first year teachers. Emphasis on assessment of learning goals; lesson design, implementation, and reflection after instruction; professional, legal and ethical obligations; and demonstration of Teacher Performance Expectations 1 through 13. Graded credit/no credit. Corequisite: EELB 540B for student teachers or EELB 560C for intern teachers. Prerequisites or corequisites: EELB 532 and 533 or 534 for student teachers or EELB 533 or 534 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and Phase I and II for student teachers or Phase I, II and III for intern teachers. (2 units)

540. Supervised Student Teaching in Multiple Subject

Teaching practicum in public schools in a multiple subject setting as defined by CCTC. Two quarters of student teaching are required. Graded credit/no credit. Formerly EELB 450.

- A. Must be taken concurrently with EELB 529. Should be taken concurrently with EELB 422, 423, and 425. Prerequisite: admission to supervision as a student teacher. (6 units)
- B. Must be taken concurrently with EELB 539. Should be taken concurrently with EELB 532 and 533 or 534. Prerequisites: EELB 422, 423, 425, 529 and 540A. (6 units)
- C. Prerequisite: consent of program director. (6 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. (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 313. 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 315/316 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 425. Formerly EDUC 555. Prerequisites: EELB 315 or 316 and admission to the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). Corequisite: EELB 455A, 455B, or 455C. (4 units)

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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 540. Formerly EDUC 556. Graded credit/no credit. Prerequisite: admission to the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). (2 units)

560. Supervised Intern Teaching in Multiple Subject

Full-time teaching in the public schools under the intern credential in a multiple subject setting as defined by CCTC. Three quarters of supervised intern teaching are required. Formerly EELB 455. Graded credit/no credit.

- A. Prerequisites: admission to the intern program, completion of EELB 312, 313, 315 or 316, and 317 and admission to supervision. Corequisites: EELB 422, 423, and 425. (8 units)
- B. Prerequisites: EELB 312, 313, 315 or 316, 317, 422 423, 425, and 560A. Corequisites: EELB 529 and 532. (8 units)
- C. Prerequisites: EELB 533 or 534 and 539. (8 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)

545. Writing Methods in TESOL

Survey of contemporary approaches to writing, contrasting styles and formats appropriate for creative writing and personal essays with writing intended for purposes of textual analysis and social or cultural expression. Various computer technologies will be used to assist in idea generation, text processing, editing, and desktop publishing. Class will include peer-collaborative tutoring techniques. (4 units)

COURSE OFFERINGS IN	
SECONDARY EDUCATION	(ESEC)

Lower Division

200. Introduction to Careers in Secondary Education

Introductory perspectives on public school teaching for potential secondary teachers (grades 6-12). Early field experience activites including planned observations, instruction and tutoring provide students with the opportunity to link undergraduae subject matter coursework with classroom experience. Enrollment requires a Certificate of Clearance. Includes a minimum of eight hours of field experience in an approved setting. (2 units)

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. (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. (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)

405. Introduction to Secondary School Culture

Examines the importance of students as the center of school culture. Analyzes a broad range of issues and theories that serve as the foundation to the profession of teaching in a diverse society. Prerequisite: admission to the program. (4 units)

407. Secondary School Teaching

Comprehensive and balanced view of teaching and all its complexities. Prerequisite: admission to the program. (4 units)

410. Adolescent Development and Learning

In-depth understanding of the developmental characteristics of early, middle and late adolescence as applicable to teaching in the secondary school settings and teaching. Prerequisite: admission to the program. (4 units)

413. Language Interaction in the Classroom

Examines the philosophy, design, goals and characteristics of schoolbased organizational structures designed to meet needs of English language learners (ELLs). Prerequisites: admission and good standing in the program or consent of program director. (4 units)

417. Educational Psychology: Instructional Theory, Assessment and Classroom Management

Examines psychological principles applied to instructional theory and practice. Develops skills and classroom management for the multicultural, single subject classroom. Prerequisite: knowledge of the Single Subject Program or consent of program director. (4 units)

419. Literacy Across the Curriculum

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Acquire and demonstrate research-based instruction that provides for teaching effective strategies and methods for guiding and developing the content based reading and writing abilities of all students, including students of varied reading levels and language backgrounds. Prerequisites: admission and good standing in the program or consent of program director. (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)

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)

505. Curriculum and Instruction in the Content Areas I

Examines the content to be made accessible to all students from varied populations. Student evaluation, assessment and practice that provides equality and access to content area. Prerequisites: admission and good standing in the program or consent of program director.

- A. Art (2 units)
- E. English (2 units)
- F. Foreign Languages (2 units)
- H. Music (2 units)
- L. Life and Physical Sciences (2 units)
- M. Mathematics (2 units)
- O. Other (2 units)
- P. Physical Education (2 units)
- S. Social Sciences (2 units)

508. Curriculum and Instruction in the Content Areas II

Review and reflect on application of methodologies and strategies through microteaching. Prerequisite: admission and good standing in the program or consent of program director.

- A. Art (2 units)
- E. English (2 units)
- F. Foreign Languages (2 units)
- H. Music (2 units)
- L. Life and Physical Sciences (2 units)
- M. Mathematics (2 units)
- O. Other (2 units)
- P. Physical Education (2 units)
- S. Social Sciences (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 312, EESL 536 or ESEC 321; and EELB 313 or ESEC 333. (4 units)

512. Principles of Pedagogy

Teacher performance assessment of 1 and 2 which consists of Teacher Performance Expectations 1, 3, 4, 6, 7, 8, 9 and 12. Prerequisites: admission and good standing in the program or consent of program director. (2 units)

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514. Assessment and Reflection of Instruction

Teacher performance assessment of 3 and 4 which consists of Teacher Performance Expectations 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 13. Prerequisites: admission and good standing in the program or consent of program director. (2 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. (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. (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)

550. Student Teaching

Full-time teaching in a single subject setting at a public school. Graded credit/no credit.

- A. Experience. Student teaching candidates are required to conduct observations and complete fieldwork assignments from the various program courses. In addition, student teaching candidates are required to tutor a designated English Language Learner and a student with special needs. (100 hours). Prerequisite: must be enrolled in a single subject program or consent of program director. (2 units)
- B. Prerequisite: successful completion of ESEC 550A. (4 units)
- C. Prerequisite: successful completion of ESEC 550B. (8 units)

555. Internship Seminar I

Seminar for interns, focusing on knowledge, skills and attitudes required for a first year teacher. Graded credit/no credit. (2 units)

556. Internship Seminar II

Seminar for Secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Graded credit/no credit. (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)

570. Intern Supervision

Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.

- A. Prerequisite: enrollment in Single Subject Program. (6 units)
- B. Prerequisite: satisfactory completion of ESEC 570A and consent of program coordinator. (6 units)
- C. Prerequisite: satisfactory completion of ESEC 570B. (6 units)
- D. Prerequisite: satisfactory completion of ESEC 570C. (6 units)
- E. Prerequisite: satisfactory completion of ESEC 570D. (6 units)
- F. Prerequisite: satisfactory completion of ESEC 570E. (6 units)

COURSE OFFERINGS IN SPECIAL EDUCATION (ESPE)

Lower Division

350. Introduction to Special Populations for General Education Teachers

Introduction to special populations in the mainstream classroom for general educators. Development of basic skills for teaching special populations in the general education classroom including differentiated instructional strategies within the core curriculum, roles of general education teachers, and creating a positive inclusive climate of instruction for exceptional learners. A minimum of three hours of fieldwork is required. (4 units)

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. (1 to 4 units)

545. Computer Technology and Assistive Devices

Review of, and training in, computer technology and assistive devices that provide solutions to problems in educational and employment environments faced by persons with disabilities. Formerly a topic under ESPE 542. Two hours lecture and two hours laboratory. Graded A,B,C/no credit. Prerequisite: consent of instructor. (3 units)

570. Teaching Students with Disabilities in the General Education Classroom

Advanced study of special populations in the mainstream classroom for general educators. Teachers will display knowledge, skills and strategies for teaching students with disabilities in the general education classroom. Demonstrates the ability to create a positive inclusive climate for individualized assessment and instruction for students with special needs and/or abilities utilizing grade appropriate State adopted standards, collaborative professional relationships, and an understanding of local and federal acts regarding special education. Observations in educational settings are required. Course may be offered on-line. (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, operating systems, networks and multimedia in educational and corporate environments. This is a prerequisite for all other ETEC courses; an IT orientation with program faculty/advisors will be part of the first week of the course. Formerly ETEC 547. (4 units)

537. Computer Based Technology in Education I

Operations, terminology and components of computing systems. Emphasis on the appropriate use of computer-based technology for information collection, analysis and management in the instructional setting. 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 preliminary 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. Graded credit/no credit. Prerequisite: graduate standing or consent of instructor. (1 to 4 units)

543. Technology and Learning I

Explores connections between technology and the teaching and learning process through current research in instructional technology and learning theories. Prerequisite: ETEC 500. (4 units)

544. Design and Development of Instructional Materials I

Examination of various models of instructional design and procedures used in the production of instructional materials. Prerequisite: ETEC 500. (4 units)

546. Computer Based Technology in Education II

Application of computer-based technology for information collection, analysis and management to support teaching, learning and learning environments. Meets technology competencies for the professional credential. Three hours lecture and two hours laboratory. (4 units)

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7

ENGLISH

Department of English

University Hall, Room 334 (909) 537-5824 http://cal.csusb.edu/Depts/english/

Bachelor of Arts

English Literature Track Creative Writing Track Linguistics Track

Teacher Preparation Program

English

Minor

English Script Writing (Requirements for this certificate can be found on Page 311.)

Master of Arts

English Composition English Composition English Literature Teaching English as a Second Language (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 (Chair), Milton Clark, Kimberly Costino, Cynthia Cotter, Juan Delgado, Margaret Doane, Bertram (Pete) Fairchild (Emeritus), Ellen Gil-Gomez, Bruce Golden (Emeritus), Gabrielle Halko, Carol Haviland, Holly Henry, Sunny Hyon, Bret Johnston, Sandra Kamusikiri, Alexandria LaFaye, Suzanne Lane, E. Clark Mayo (Emeritus), Susan Meisenhelder, Maureen Newlin, E. Philip Page, Renee Pigeon, Luz Elena Ramirez, Jacqueline Rhodes, Treadwell (Ted) Ruml II, DeShea Rushing, Peter Schroeder (Emeritus),Wendy Smith, Caroline Vickers, Salaam Yousif

Like English departments in most colleges and universities, the English Department at California State University, San Bernardino is devoted to the study of literature and language. The major in English consists of a common core and three tracks. The core provides background for more advanced courses, with offerings in English literature, American literature, noncanonical literature, as well as analysis of particular genres, literary theory, and introduction to linguistics.

The Literature Track offers courses focused on particular themes, genres, authors, topics, and periods. The Creative Writing Track gives students the opportunity to do extensive, sequenced work in poetry or fiction writing and exposes them to the writing of other genres. The Linguistic Track enables students to understand human language in its many facets: its history, its structure, its variation, its relationship with society and culture, and how it is acquired by children and adults.

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 20.

B.A. IN ENGLISH

Requirements (73 units)

Total units required for graduation: 180

Requirements for the B.A in English:

To be recommended for a single subject teaching credential program in English, students must include the courses under the English Teacher Preparation Program requirements on Page 156.

Lower-division requirements: (8 units) 1. Four units chosen from:

Four units	chosen from:
ENG 210.	English Literature I (4)
ENG 211.	English Literature II (4)
Four units	chosen from:
ENG 212.	English Literature III (4)

ENG 212. English Literature III (4) ENG 213. English Literature IV (4)

Upper-division requirements (29 units)

1. Four units chosen from:

2.

- ENG 301A. Analysis of Poetry (4)
- ENG 301B. Analysis and Writing of Poetry (4)
- **Note:** Students who are seeking to be recommended for a single subject teaching credential program in English must take ENG 301B.
- 2. Four units chosen from:
 - ENG 302A. Analysis of Drama (4)
 - ENG 302B. Analysis and Writing of Drama (4)
 - ENG 303A. Analysis of Prose Fiction (4)
 - ENG 303B. Analysis and Writing of Prose Fiction (4)
 - ENG 304A. Analysis of Nonfiction Prose (4)
 - ENG 304B. Analysis and Writing of Nonfiction Prose (4) **Note:** Students who are seeking to be recommended for a sin-
 - gle subject teaching credential program in English must take four units from ENG 302B, 303B, 304B.
- 3. ENG 311. The English Language (4)
- 4. Four units chosen from:
 - ENG 325. American Literature I (4)
 - ENG 326. American Literature II (4)
- 5. 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)
 - 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 single subject teaching credential program in English may substitute another upper-division English course for ENG 385.
- 7. Four units chosen from:
 - ENG 475. Shakespeare I (4)
 - ENG 476. Shakespeare II (4)
- 8. ENG 516. Senior Project (1)
- Track requirements (36 units)
- Students must take thirty-six units chosen from one of the following tracks:

Literature Track

6.

- **Note:** Of the five courses taken in categories 1 and 2 below, at least one must be designated British-centered, at least one must be designated American-centered, and at least one must be designated pre-1800. Students should consult an English advisor for a list of courses with these designations.
- 1. Sixteen units from any of the following courses, at least 12 units of which must be from 400-level courses.

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	Studies in a Literary Topic		
	ENG 324.	Studies in Literary Topics (4)	
	ENG 463.	Advanced Studies in Literary Topics (4)	
	Studies in a L	iterary Genre	
	ENG 315.	Studies in a Literary Genre (4)	
	ENG 333.	Myth and Epic (4)	
	ENG 335.	Studies in the Novel (4)	
	Studies in a L	iterary Period or Movement	
	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 440.	Studies in a Literary Period or Movement (4)	
	ENG 442.	Modern Poetry (4)	
	ENG 443.	Contemporary Poetry (4)	
	ENG 447.	Modern Fiction (4)	
	ENG 448.	Contemporary Fiction (4)	
	Studies in a Major Author or Authors		
	ENG 441.	Studies in a Major Author or Authors (4)	
	Studies in a Literary Theme		
	ENG 423.	Studies in a Literary Theme (4)	
2.	ENG 515.	Senior Seminar in Literature (4)	

3. Sixteen units of electives in English. At least eight of these units must be upper-division and may include up to eight units of upper-division foreign literature or upper-division literature in translation. The only lower-division courses that may be used as electives are ENG 210, 211, 212 and 213, as long as these courses have not been used to satisfy other requirements in the English major. Students seeking to be recommended for a single subject teaching credential program in English can use their elective units to take some of the required English coursework specified under category 1 in the English Teacher Preparation Program below.

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)
- Four units chosen from: ENG 507. Advanced Creative Writing: Poetry (4) ENG 508. Advanced Creative Writing: Fiction (4)
- 5. Four units chosen from:
 - ENG 316. Introduction to Creative Writing: Specialized Genres (4)
 - ENG 347. Playwriting (4)
 - ENG 511. Creative Writing in the Classroom (4)
 - ENG 513. Advanced Creative Writing in Specialized Genres (4)
 - ENG 522. Independent Study in Writing (4)
 - TA 347. Playwriting (4)

Any of ENG 417, 418, 507 or 508 that is not used to satisfy one of the foregoing requirements.

6. Sixteen units of electives in English. At least eight of these units must be upper-division and may include up to eight units of upper-division foreign literature or upper-division literature in translation. The only lower-division elective courses that may be used as electives are ENG 210, 211, 212 and 213, as long as these courses have not been used to satisfy other requirements in the English major. Students seeking to be recommended for a single subject teaching credential program in English can use

their elective units to take some of the required English coursework specified under category 1 in the English Teacher Preparation Program below.

Linguistics Track

1.	ENG 312.	Theories of Language Acquisition and
		Learning (4)
2.	ENG 420.	English Grammar I (4)

- 3. ENG 422. History of the English Language (4)
- 4. ENG 523. English Grammar II (4)
- 5. ENG 524. Sociolinguistics (4)
- 6. Sixteen units of electives in English. At least eight of these units must be upper-division and may include up to eight units of upper-division foreign literature or upper-division literature in translation. The only lower-division elective courses that may be used as electives are ENG 210, 211, 212 and 213, as long as these courses have not been used to satisfy other requirements in the English major. Students seeking to be recommended for a single subject teaching credential program in English can use their elective units to take some of the required English course-work specified under category 1 in the English Teacher Preparation Program below.

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.

ENGLISH TEACHER PREPARATION PROGRAM

Note: This program is being revised to meet the new CTCC standards. The requirements listed below apply only to students under the 2004-2005 or earlier catalog.

In order to be recommended for a teaching credential (English Subject Matter Program), students must complete the requirements for the English major as well as the following requirements:

1. Students must take the following:

ENG 240. Writing in the Public Sphere (4)		Writing in the Public Sphere (4)
ENG 31	2.	Theories of Language Acquisition and
		Learning (4)
ENG 32	7.	Literature for Adolescents and Young Adults (4)
ENG 32	9.	Issues in Literacy and Writing Studies (4)
ENG 42	0.	English Grammar I (4)
ENG 51	0.	English in the Secondary Classroom (4)
Note:	Stude	ents can apply these courses toward the elective

- units in their track. 2. Students must take ENG 306 or HUM 306 to satisfy the upperdivision writing requirement of the university.
- Students must include the following among their General Education Requirements:
 - a. Four units chosen from:
 - ENG 110. World Literature I (4)
 - ENG 111. World Literature II (4)
 - b. TA 260. Introduction to Theatre (4)

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 142 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.

SUSB 2006-200

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MINOR IN ENGLISH

Requirements (32 units)

Re	quirements	for a minor in English:
1.	ENG 311.	The English Language (4)
2.	Four units cho	sen from:
	ENG 301A.	Analysis of Poetry (4)
	ENG 301B.	Analysis and Writing of Poetry (4)
	ENG 302A.	Analysis of Drama (4)
	ENG 302B.	Analysis and Writing of Drama (4)
	ENG 303A.	Analysis of Prose Fiction (4)
	ENG 303B.	Analysis and Writing of Prose Fiction (4)
	ENG 304A.	Analysis of Nonfiction Prose (4)
	ENG 304B.	Analysis and Writing of Nonfiction Prose (4)
3.	Eight units cho	
	ENG 210.	English Literature I (4)
	ENG 211.	English Literature II (4)
	ENG 212.	English Literature III (4)
	ENG 213.	English Literature IV (4)
	ENG 325.	American Literature I (4)
	ENG 326.	American Literature II (4)
4.	Four units cho	
	ENG 475.	Shakespeare I (4)
_	ENG 476.	Shakespeare II (4)
5.	Four units cho	
	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. ENG 415.	Romantic Prose and Poetry (4) Victorian Literature (4)
	ENG 415. ENG 442.	Modern Poetry (4)
	ENG 442. ENG 443.	Contemporary Poetry (4)
	ENG 443. ENG 447.	Modern Fiction (4)
	ENG 448.	Contemporary Fiction (4)
6.	Four units cho	
0.	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.		al units chosen from any upper-division English
	course except	
	ENG 300.	English Workshop (4)
	ENG 306.	Expository Writing (4)
	ENG 399.	Community Service Project (4)
_		
DF	PARTMEN	TAL HONORS

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;
- Earned a grade point average of at least 3.5 in all courses at-2. tempted in the major at this university;
- Earned an overall undergraduate grade point average of at least 3. 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. See Page 55 for additional certificate information.

Certificate in Writing: Creative Writing

Certificate Requirements (28 units)

- Introduction to Creative Writing: Poetry (4) ENG 317. 1.
- 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. Four units chosen from:
 - ENG 507. Advanced Creative Writing: Poetry (4)
 - ENG 508. Advanced Creative Writing: Fiction (4)
 - Advanced Creative Writing in Specialized ENG 513. Genres (4)
- 5. Four units chosen from:
 - ENG 301A. Analysis of Poetry (4)
 - Analysis and Writing of Poetry (4) ENG 301B.
 - ENG 302A. Analysis of Drama (4)
 - Analysis and Writing of Drama (4) ENG 302B.
 - ENG 303A. Analysis of Prose Fiction (4)
 - ENG 303B. Analysis and Writing of Prose Fiction (4)
 - Analysis of Nonfiction Prose (4) ENG 304A.
 - ENG 304B. Analysis and Writing of Nonfiction Prose (4)
- 6. Eight units from any upper-division English courses which may include ENG 621.

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)
- Eight units chosen from: 3.
 - COMM 342. Publication Design and Makeup (4)
 - COMM 442. Public Relations Campaigns (4)
 - Approaches to Professional Writing (4) ENG 631.
- Eight units chosen from Group A or B below: 4.
- Group A
 - 1. Four units chosen from:
 - ENG 420. English Grammar I (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)
 - Publication Design and Makeup (if not taken COMM 342. 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)
 - Newspaper Editing and Makeup (if not taken COMM 342. as a required course) (4)

ENG 522. ENG 565.	Independent Study in Writing (4) 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 RP ("report in progress") results in placement in ENG 85B; a grade of RP 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/report in 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 RP ("report in progress") results in placement in ENG 86B or 85B; a grade of RP 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/report in 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 RP. 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**=A1) (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)

210. English Literature I

Readings in English literature from the Middle Ages through the Renaissance. Formerly ENG 230. Prerequisite: ENG 101 or equivalent. (ENG 210+211+212=**CAN** ENGL SEQ B) (4 units)

211. English Literature II

Readings in English literature from the Restoration through the eighteenth century. Formerly ENG 231. Prerequisite: English 101 or equivalent. (ENG 210+211+212=**CAN** ENGL SEQ B) (4 units)

212. English Literature III

Readings in nineteenth-century English literature. Formerly ENG 232. Prerequisite: ENG 101. (ENG 210+211+212=**CAN** ENGL SEQ B) (4 units)

213. English Literature IV

Readings in English literature from the twentieth century to the present. Formerly ENG 232. Prerequisite: ENG 101. (4 units)

240. Writing in the Public Sphere

Consideration of how writers use texts (including visual, digital, and print media) to represent public issues and effect public action. Emphasizes the social and material aspects of public writing and public rhetorics, and includes practice in writing for the public sphere. Pre-requisite: ENG 101. (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 or analysis and writing courses (ENG 301, 302, 303, 304) before taking other upper-division courses.

301. Analysis of Poetry

Credit allowed for only one of the following:

- A. Analysis. Literary analysis of selected lyric poems with special emphasis on how to write about literature. Formerly ENG 301. Prerequisite: ENG 101. (4 units)
- B. Analysis and Writing. Literary analysis of selected lyric poems with special emphasis on how to write about literature, as well as practice in writing poetry. Students seeking recommendation for a teaching credential (English subject matter program) must take ENG 301B. Prerequisite: ENG 101.

302. Analysis of Drama

Credit allowed for only one of the following:

 A. Analysis. Literary analysis of selected plays with special emphasis on how to write about dramatic literature. Formerly ENG 302. (Also offered as TA 302A. Students may not receive credit for both.) Prerequisite: ENG 101. (4 units)

B. Analysis and Writing. Literary analysis of selected plays with special emphasis on how to write about dramatic literature, as well as integrated practice in writing for performance. (Also offered as TA 302B. Students may not receive credit for both.) Students seeking recommendation for a teaching credential (English subject matter program) must take ENG 302B. Prerequisite: ENG 101. (4 units)

303. Analysis of Prose Fiction

Credit allowed for only one of the following:

- A. Analysis. Literary analysis of selected narrative prose with special emphasis on how to write about literature. Formerly ENG 303. Prerequisite: ENG 101. (4 units)
- B. Analysis and Writing. Literary analysis of selected narrative prose with special emphasis on how to write about literature, as well as practice in writing fiction. Students seeking recommendation for a teaching credential (English subject matter program) must take ENG 303B. Prerequisite: ENG 101. (4 units)

304. Analysis of Nonfiction Prose

Credit allowed for only one of the following:

- A. Analysis. Literary analysis of selected nonfiction prose with special emphasis on how to write about literature. Formerly ENG 304. Prerequisite: ENG 101. (4 units)
- B. Analysis and Writing. Literary analysis of selected nonfiction prose with special emphasis on how to write about literature as well as practice in writing nonfiction. Students seeking recommendation for a teaching credential (English subject matter program) must take ENG 304B. 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**=F1) (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)

312. Theories of Language Acquisition and Learning

Examination of linguistic, psychological and social aspects of language acquisition and learning. Explores connections between first and second language acquisition theories and language teaching. (Also offered as HUM 312. Students may not receive credit for both.) Prerequisite: ENG 311. (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=G2) (4 units)

315. Studies in a Literary Genre

Intensive study of a selected genre. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B. (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: one course from ENG 302A, 302B, 303A, 303B, 304A, 304B. (4 units)

321. Studies in Language and Linguistics

Intensive study in selected topics in linguistics or language. 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. (4 units)

324. Studies in Literary Topics

Study of a selected topic in literature. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B. (4 units)

325. American Literature I

Readings in American literature from the Colonial period through the Civil War. Formerly ENG 330 and 331. (4 units)

326. American Literature II

Readings in American literature from the Civil War to the present. Formerly ENG 332. (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: one course from ENG 301A, 301B, 302A, 302B, 303A, 303B, 304A, 304B. (4 units)

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329. Issues in Literacy and Writing Studies

Examination of literacy as a historically and socially mediated set of values and practices, with specific consideration of how literacy functions in specific communities. Introduces students to related theories of writing and language use. (4 units)

333. Myth and Epic

Myths and epics of folklore and of classical literature, emphasizing relationships to later Western literature. Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B. (4 units)

335. Studies in the Novel

Studies in the novel with emphasis on close reading of specific texts. Prerequisites: ENG 301A or 301B; and one course from ENG 302A, 302B, 303A, 303B, 304A, 304B. (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. Playwriting

Fundamentals of play development, including plot, character, structure, and theme. Students will create individual scripts. (Also offered as TA 347. Students may not receive credit for both.) Prerequisite: one course from ENG 302A, 302B ,TA 302A, 302B; 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. May not be counted toward fulfilling requirements in the English major or minor. 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. (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. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

403. English Literature of the Renaissance

Poetry, prose and drama of the sixteenth century. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

406. Seventeenth Century Literature

English prose and poetry from Bacon through Milton. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

409. English Literature of the Restoration and Eighteenth Century

English poetry and prose of the Restoration and eighteenth century. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

412. Romantic Prose and Poetry

Major English romantics such as Blake, Wordsworth, Keats, Coleridge, Shelley and Byron. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level courses in the English major; or consent of instructor. (4 units)

415. Victorian Literature

Major writers of Victorian England. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (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. English Grammar I

Study and analysis of grammatical structures of English. 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)

423. Studies in a Literary Theme

Intensive study of a selected theme. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major. (4 units)

440. Studies in a Literary Period or Movement

Intensive study of literature within historical and/or cultural contexts. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

441. Studies in a Major Author or Authors

Intensive study of a selected author or authors. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major. (4 units)

442. Modern Poetry

Studies in British, American and European poetry from the late nineteenth century to World War II. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

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443. Contemporary Poetry

Studies in British and American poetry from World War II to the present. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

447. Modern Fiction

Fiction from 1900 through World War II. Formerly ENG 446. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (4 units)

448. Contemporary Fiction

Fiction from World War II to the present. Formerly ENG 446. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major; or consent of instructor. (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)

463. Advanced Studies in Literary Topics

Advanced study of a topic in literature. May be repeated for credit as topics change. Prerequisites: ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; and 12 additional units of 200-, 300-, and/or 400-level literature courses in the English major. (4 units)

475. Shakespeare I

Comedies and histories. (Also offered as TA 475. Students may not receive credit for both.) Prerequisite: one course from ENG 301A, 301B, 302A, 302B; or consent of instructor. (4 units)

476. Shakespeare II

Tragedies and romances. (Also offered as TA 476. Students may not receive credit for both.) Prerequisite: one course from ENG 301A, 301B, 302A, 302B; or consent of instructor. (4 units)

507. Advanced Creative Writing: Poetry

Advanced-level workshop in poetry writing; discussion of student writing and exemplary texts by established poets. Formerly a topic under ENG 513. Prerequisite: ENG 417 or consent of instructor. (4 units)

508. Advanced Creative Writing: Fiction

Advanced-level workshop in fiction writing; discussion of student writing and exemplary texts by established fiction writers. Formerly a topic under ENG 513. Prerequisite: ENG 418 or consent of instructor. (4 units)

510. English in the Secondary Classroom

English as a secondary school subject including language, literature and composition. Emphasis on theories and practices associated with reading, writing, and assessment. Prerequisites: ENG 301B, 306, 311, 329, 385; and one course from ENG 302B, 303B, 304B. (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 in Specialized Genres

Advanced 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 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. ENG 301A or 301B; one course from ENG 302A, 302B, 303A, 303B, 304A, 304B; ENG 385; and consent of instructor. (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 Grammar II

Advanced study and analysis of grammatical structures of English. 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)

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535. Images of Culture Through Children's Literature

Becoming acquainted with the children's literature of various cultures and organizing this literature for curricular choices. (Also offered as ERDG 642. Student may not receive credit for both.) Graduate students are required to do coursework appropriate for graduate students. Prerequisite: ERDG 620 for students enrolled in the College of Education; consent of instructor for other students. (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. (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. (2 to 5 units)

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ENVIRONMENTAL HEALTH SCIENCE

Department of Health Science and Human Ecology

Jack Brown Hall, Room 263 (909) 537-5339 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 188.

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 Courses

Core Courses

- 1. HSCI 120. Health and Society: An Ecological Approach (5)
- 2. HSCI 315. Statistics for the Health Sciences ((4)
- 3. HSCI 352. Principles of Environmental Health (4)
- HSCI 478. Environmental Health Management (4) 4
- HSCI 367. Human Disease Mechanisms (4) 5.
- HSCI 451. Principles of Epidemiology (4) 6.
- 7. HSCI 470. Health Behavior (4)

Concentration Courses

- 1. BIOL 200. Biology of the Cell (5)
- 2. BIOL 201. Biology of Organisms (5)
- BIOL 202. Biology of Populations (5) 3.
- Five units chosen from: 4. Principles of Microbiology (5) BIOL 220. 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, choose 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
- Principles of Organic Chemistry I (5) CHEM 321.

	CHEM 322.	Principles of Organic Chemistry II (5)
	CHEM 323.	Principles of Organic Chemistry III (5)
8.	HSCI 380.	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 (4)
14.	Four units cho	sen 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.	Six units of he	alth 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 358.	Water Quality and Pollution Control (4)
	HSCI 381.	Occupational Safety (4)
	HSCI 477.	Environmental Health Engineering (4)
	HSCI 499.	Directed Reading (1-4)
	HSCI 530.	Food-Borne Illnesses and Their Prevention (4)
	HSCI 531.	Bioterrorism (4)
	HSCI 557.	Hazardous Material Control (4)
	HSCI 558.	Management of Water Quality (4)

HSCI 595. Independent Study (1-4)

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ENVIRONMENTAL STUDIES

Department of Geography and

Environmental Studies

Social and Behavioral Sciences Building, Room 327J

(909) 537-5519 http://geog.csusb.edu/

Bachelor of Arts

Environmental Studies - Track A

Environmental Studies - Track B

Minor

Environmental Studies

COORDINATOR: Ted McDowell

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 (28 units)

1.	BIOL 100.	Topics in Biology (5)
2.	CHEM 205.	Fundamentals of Chemistry I: General
		Chemistry (5)
3.	GEOG 201.	Map Interpretation (4)
4.	A minimum of	fourteen units chosen from:
	ANTH 100.	Introduction to Anthropology: Human
		Evolution (4)
	CHEM 206.	Fundamentals of Chemistry II: Organic
		Chemistry (5)
	GEOG 103.	Physical Geography (5)
	GEOL 101.	Introductory Geology (5)
	HSCI 120.	Health and Society: An Ecological Approach
	May choose o	nly one of the following two courses:
	PHYS 100	 Physics in the Modern World (5)
PHYS 121. Basic Concepts of Physics I (5)		
l In	nor division roa	uiromanta (20 unita)

Upper-division requirements (30 units)

1.	A minimum of	four units chosen from:
	BIOL 349.	Biology of Ecosystems (5)
	GEOG 370.	Landscape Analysis (4)

2. 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 306. Remote Sensing of Environment (4)
- GEOG 350. Conservation and Natural Resources (4)
 Four units chosen from: GEOG 360. Weather and Climate (4)
- GEOG 365. Climate Change (4)6. Four units chosen from: GEOG 480. Geomorphology (4)
 - GEOG 480. Geofforphology (4) GEOL 312. Geology of California (4)
- Four units chosen from: GEOG 305. Geographic Statistics and Research Methods (4) MATH 305. Statistics: Hypothesis Testing and Estimation (4)
 GEOG 500. Senior Seminar (2)

Electives (20 units)

 A minimum of 20 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 370.	Landscape Analysis (4)
GEOG 380.	Population Geography (4)
GEOG 415.	Urban Planning and Land Development (4)
GEOG 470.	Hydrology and Water Resources (4)
GEOG 480.	Geomorphology (4)
GEOL 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 202.	Introduction to Geographic Information
	Systems and Mapping (5)
GEOG 304.	Field Methods in Geography (4)
GEOG 308.	Advanced Geographic Information Systems (5)
GEOG 402.	Geographic Information Systems Applications (5)
GEOL 301.	Introduction to Geologic Mapping (4)
HSCI 324.	Radiological Health and Safety (2)
HSCI 478.	Environmental Health Management (4)
Optional cou	irses not a part of the major. Students are encour-
aged to contin	ue their studies of the environment through the use

B.A. IN ENVIRONMENTAL STUDIES - TRACK B

of independent study courses and approved internships.

Requirements (79 units)

(5)

Total units required for graduation: 180

Requirements for the B.A. in Environmental Studies - Track B:

Lower-division requirements (32 units)

- 1. BIOL 200. Biology of the Cell (5)
- 2. BIOL 201. Biology of Organisms (5)
- 3. BIOL 202. Biology of Populations (5)
- 4. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- 5. CHEM 216. General Chemistry II: Principles of Chemical Reactions (6)

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6. Five units chosen from: PHYS 100. Physics in the Modern World (5) PHYS 121. Basic Concepts of Physics I (5) Upper-division requirements (31 units) 1. CHEM 345. Modern Quantitative Analysis (5) 2. Four units chosen from: Economics of the Environment (4) ECON 360. HSCI 478. Environmental Health Management (4) 3. Four units chosen from: GEOG 304. Field Methods in Geography (4) GEOG 306. Remote Sensing of Environment (4) GEOG 350. Conservation and Natural Resources (4) 4. 5. Four units chosen from: GEOG 360. Weather and Climate (4) GEOG 365. Climate Change (4) 6. Four units chosen from: GEOG 480. Geomorphology (4) Geology of California (4) GEOL 312. Senior Seminar (2) 7. GEOG 500. 8. Four units chosen from: Geographic Statistics and Research Methods (4) GEOG 305. MATH 305. Statistics: Hypothesis Testing and Estimation (4) Electives (a minimum of 16 units) 1. A minimum of 16 units chosen from one of the following Groups 1 or 2 below: Group 1 GEOG 370. Landscape Analysis (4) 1. 2. Five units chosen from: BIOL 450. Ecology (5) BIOL 455. Marine Biology and Oceanography (5) 3. 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) May choose only one of the following two courses: Physical Geography (5) GEOG 103. Introductory Geology (5) GEOL 101. HSCI 352. Principles of Environmental Health (4) HSCI 401. Advanced Environmental Health (5) Group 2 1. CHEM 221A. Organic Chemistry I: Lecture (3) CHEM 221B. Organic Chemistry I: Laboratory (1) CHEM 222A. Organic Chemistry II: Lecture (3) 2. CHEM 222B. Organic Chemistry II: Laboratory (1) 3. A minimum of eight units chosen from: BIOL 319. Local Flora (5) GEOG 370. Landscape Analysis (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) Introductory Geology (5) GEOL 101. 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 encour-

aged to continue their studies of the environment through the use of independent study courses and approved internships.

MINOR IN ENVIRONMENTAL STUDIES

Requirements (38 units)

Requirements for a minor in Environmental Studies:

Lower-division requirements (14 units)

		,
1.	Five units cho	osen from:
	BIOL 100.	Topics in Biology (5)
	BIOL 202.	Biology of Populations (5)
	HSCI 120.	Health and Society: An Ecological Approach (5)
2.	Five units cho	osen from:
	GEOG 103.	Physical Geography (5)

- Introductory Geology (5) GEOL 101.
- 3. GEOG 201. Map Interpretation (4)

Upper-division requirements (12 units)

- 1. GEOG 350. Conservation and Natural Resources (4)
- Four units chosen from: 2. ECON 360. Economics of the Environment (4) HSCI 478. Environmental Health Management (4) 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 349.	Biology of Ecosystems (5)
BIOL 450.	Ecology (5)
ECON 360.	Economics of the Environment (4)
GEOG 202.	Introduction to Geographic Information Systems
	and Mapping (5)
GEOG 304.	Field Methods in Geography (4)
GEOG 305.	Geographic Statistics and Research Methods (4)
GEOG 370.	Landscape Analysis (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

- At least one-half of the course work required by the major is 1 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.
- Completion of a senior project approved in advance by the 4. program coordinator.

Students interested in receiving this recognition must initiate the process by making a formal application with the Geography Department administrative support coordinator.

ETHNIC STUDIES

College of Social and Behavioral Sciences

Social and Behavioral Sciences Building, Room 207 (909) 537-7500 http://csbs.csusb.edu/

Minor

166 /

- Ethnic Studies
- with options in:
- General Ethnic Studies
- African American Studies Chicano(a)/Latino(a) Studies Native American Studies Asian American Studies
- COORDINATOR: Mary Fong

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 Chicano(a)/Latino(a) Studies Native American Studies Asian American Studies

Requirements for a minor in Ethnic Studies:

Core Courses (8 units)

- 1. ES 100. Ethnicity and Race in America (4)
- 2. ES 300. Research Methods in Ethnic Studies (4)

Topic Courses (4 units)

- 1. 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:

- 1. Four units chosen from:
 - ANTH 305. North American Prehistory (4)
 - ANTH 306. Aztecs, Maya, and Their Predecessors (4)
 - ANTH 323. Native North American Art (4)
 - ANTH 325. Human Biological Variation and the Concept of Race (4)

	ANTH 330. ANTH 333. ANTH 335. ANTH 351. ANTH 352. ANTH 354. ANTH 357.	Cross-Cultural Child-Rearing Practices (4) Sex and Gender in Cross-Cultural Practices (4) Cross-Cultural Perspectives on Crime and Deviance (4) Indians of North America (4) Indians of the Southwest (4) Cultures of Mexico and South America (4) African Societies (4)
	ANTH 362. ANTH 365.	Peoples of Asia (4) Asian-American Cultures (4)
	ANTH 466.	Anthropology of Health, Illness and Healing (4)
	ANTH 472.	Colonial and Postcolonial Anthropology (4)
2.	ANTH 493. Four units cho	Urban Anthropology (4) sen from:
۷.	ECON 352.	Political Economy of Poverty and
	50 505	Discrimination (4)
	ES 595. HIST 340.	Independent Study (1-4) for a total of (4) African-American History, 1620-1865 (4)
	HIST 341.	African-American History, 1865-Present (4)
	HIST 391.	Chicano History (4)
	HIST 465.	Modern Central America (4)
	HIST 470. HIST 565.	Modern Latin America (4) Ethnic Minorities in American History (4)
	HIST 566.	Ethnic Minorities in the American Southwest:
		Past and Present (4)
	HIST 567. PSCI 352A.	The Asian-American Experience (4) Minority Politics: Ethnic Politics (4)
	PSCI 352A.	Minority Politics: African American Politics (4)
	PSCI 352C.	Minority Politics: Latino Politics (4)
	PSCI 352D.	Minority Politics: Asian American Politics (4)
	PSCI 352E. PSYC 340.	Minority Politics: Native American Politics (4) Prejudice, Race and Racism (4)
	SOC 336.	Black Women and Feminism (4)
	SOC 341.	Marriage and Family Among Blacks (4)
	SOC 342. SOC 441.	The Chicano Family (4) Black Social Stratification (4)
	SOC 441.	Chicano Social Stratification (4)
	SSCI 300.	Nonwestern World (4)
	SSCI 316.	Race and Racism (4)
3.	SSCI 350. Eight units cho	Roots of Modern Racism in America (4)
0.	ART 310.	Asian Art (4)
	ART 323.	Native North American Art (4)
	ART 328.	Mexican Art (4)
	ART 329. COMM 302.	Chicano Art (4) Communication, Language and Culture (4)
	COMM 304.	Intercultural Communication (4)
	COMM 401.	Gender, Race and Media (4)
	COMM 402. COMM 580.	Ethnography of Communication (4) Culture and Ethnicity in Language (4)
	ENG 314.	American Indian Literature (4)
	ENG 323.	Chicano Literature (4)
	ENG 339. HUM 335.	African American Literature (4) The Origin and Contemporary Role of Latino
	TIOM 335.	Culture (4)
	HUM 370.	African Heritage in the Arts (4)
	HUM 450.	Aspects of Chicana/o Culture (4)
	HUM 460. MUS 352.	Cultural Studies (4) African American Music (4)
	PHIL 364.	Philosophy of Race and Ethnicity (4)
	PHIL 375.	Non-Western Philosophy (4)
	SPAN 435. TA 462.	Chicano Literature in Spanish (4) African-American Theatre and Drama (4)
	-	ents may receive credit for only one of the
	follow	/ing:
		H 323. Native North American Art 323. Native North American Art
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African American Studies

- 1. 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)
 - HUM 370. African Heritage in the Arts (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)
- Chicano(a)/Latino(a) 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)
HUM 450.	Aspects of Chicana/o Culture (4)
PSCI 352C.	Minority Politics: Latino Politics (4)
SOC 342.	The Chicano Family (4)
SOC 442.	Chicano Social Stratification (4)
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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. In consultation with an advisor from the Ethnic Studies Program Committee sixteen 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) HIST 567. The Asian-American Experience (4)
 - PHIL 375. Non-Western Philosophy (4)
 - PSCI 352D. Minority Politics: Asian American Politics (4)

MINOR IN ETHNIC STUDIES -CHICANO(A)/LATINO(A) STUDIES

Requirements (28 units)

Designed to provide increased awareness, knowledge and an indepth understanding, the minor in Ethnic Studies, Chicano(a)/ Latino(a) Studies will address issues of language, history, culture, politics, economics, education, immigration and the creative expression of the Chicano/Latino presence in this country. Students will examine this growing ethnic group's experience in a social context and its interdependence with other populations by addressing interracial, intercultural and international understanding.

Requirements for a minor in Ethnic Studies - Chicano(a)/Latino(a) Studies

1. FS 102. Chicano(a)/Latino(a) Culture: An Overview (4) ES 300. Research Methods in Ethnic Studies (4) 2. ES 394. Topics in Ethnic Studies (4) 3. 4. Eight units chosen from: Aztecs, Maya, and Their Predecessors (4) ANTH 306. Independent Study (2 or 4) ES 595. HIST 391. Chicano History (4) HIST 566. Ethnic Minorities in the American Southwest: Past and Present (4) PSCI 352C. Minority Politics: Latino Politics (4) SOC 342. The Chicano Family (4) Chicano Social Stratification (4) SOC 442. Eight units chosen from: 5. Mexican Art (4) ART 328. ART 329. Chicano Art (4) ENG 323. Chicano Literature (4) HUM 335. The Origin and Contemporary Role of Latino Culture (4) HUM 450. Aspects of Chicana/o Culture (4) SPAN 435. Chicano Literature in Spanish (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=D4) (4 units)

102. Chicano(a)/Latino(a) Culture: An Overview

Introduction to the central concepts and historical experiences that define Chicano(as)/Latino(as) in the United States and an examination of current trends through a multidisciplinary perspective. (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. (1 to 4 units)

FINANCE

Department of Accounting and Finance

Jack Brown Hall, Room 459 (909) 537-5704 http://www.acf.csusb.edu/

FACULTY: Gene Andrusco (Emeritus), Francisca Beer, Haiwei Chen, James Estes, Rauf Khan (Emeritus), Dong Man Kim, David Schalow (Chair), Mo Vaziri, Taewon Yang

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 69. The Master of Business Administration can be found on Page 343. 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)
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Lower Division

101. Financial Choices in Life

An introduction to how financial choices affect lifestyle decisions, economic stress, and wellbeing. Topics include how students deal with credit cards, student loans, leasing vs. buying cars, insurance, employee benefits, housing, investments, and retirement decisions. (GE=E1) (2 units)

Upper Division

Enrollment in upper-division courses restricted to students who have met all prerequisites and have completed at least 90 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, MATH 110 and SCM 210. (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. 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)

460. Retirement Planning

Analysis of key issues in retirement planning: Individual Retirement Accounts, 401k's, defined benefit plans, profit sharing plans, and other retirement planning instruments. Prerequisite: FIN 360. (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)

481. Real Estate Practice

Legal, marketing and financial aspects of running a real estate business. Focus will be on the practical application of real estate theory to the operation of the firm. Meets state requirements applicable toward the real estate broker license. (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)

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523. Security Trading and Analysis

An applied investment analysis course, emphasizing the application of modern portfolio theory and asset allocation models in selecting and evaluating stocks and bonds. This web-enhanced course utilizes modern computer and data facilities to conduct extensive fundamental and technical analysis, security portfolio tracking, performance measurement, and trading simulation and strategies. Prerequisite: FIN 503 or equivalent. (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. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (2 or 4 units)

FOREIGN LANGUAGES AND LITERATURES

Department of World Languages and Literatures

University Hall, Room 314 (909) 537-5847

FACULTY: Jacques Benzakein, Ruth Burke, Myung Choi, Rafael Correa,Khamla Dhouti, Arturo Fernández-Gilbert, M. Antonietta Gallegos-Ruiz, Mirta A. González, Jorun Johns (Emeritus), Terri Nelson, Walter Oliver (Emeritus), Margaret Perry (Interim Chair), Daniel Whitaker, Aurora Wolfgang, Eri Yasuhara

The Department of World 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. Arabic, 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 world 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, foreign trade specialist, international trade, diplomacy, intelligence and law enforcement.

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. Pre-requisite: 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)
- 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**=C3)

- A. American Sign Language (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. (GE=C3)

- A. American Sign Language (4 units)
- C. Italian (4 units)
- D. Portuguese (4 units)
- E. Greek (4 units)
- F. Latin (4 units)
- G. Russian (4 units)
- H. Turkish (4 units)

232. Introduction to ASL Interpreting

Overview and practical application of interpretation. Emphasis on the professional code of ethics and professional concerns. Prerequisite: FLAN 150A. (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)

350. Language Acquisition and Early Field Experience for Future Teachers

Theories of language acquisition, including supervised observation of the public school classroom. Taught in English for all prospective single-subject teachers in the department. Prerequisite: junior standing or consent of instructor. (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)

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COURSE OFFERINGS IN ARABIC

Lower Division

101. College Arabic I

Introduction to Arabic including fundamentals of grammatical structure, pronunciation and culture. Formerly a topic under FLAN 101. (4 units)

102. College Arabic II

Further study of the fundamentals of grammatical structure, pronunciation and culture. Emphasis in oral communication, reading and writing. Formerly a topic under FLAN 102. Prerequisite: ARAB 101 or equivalent. (GE=C3) (4 units)

150. Intermediate Arabic III

Emphasis on oral and writing competencies at the intermediate level in a cultural context. Formerly a topic under FLAN 150. Prerequisite: ARAB 102. (**GE**=C3) (4 units)

214. Conversation in Arabic

Practice of oral Arabic including current topics, panel discussions, debates, and oral presentations. Students will become familiar with dayto-day social and business expressions. Prerequisite: ARAB 150 or equivalent. (**GE**=C3) (4 units)

290. Arabic Literature in Translation

Introduction to Arabic literature in English translation. (**GE**=C3) (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**=C3) (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**=C3) (4 units)

290. Japanese Literature in English

Introduction to Japanese literature read in English translation. Selection of writers and genres from classical and contemporary Japanese literature. (**GE**=C3) (4 units)

COURSE OFFERINGS IN MANDARIN (MAND)

Lower Division

(ARAB)

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**=C3) (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**=C3) (4 units)

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FRENCH

Department of World Languages and

Literatures

University Hall, Room 314 (909) 537-5847 http://flan.csusb.edu/

Bachelor of Arts

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Teaching Credential Program

French

French

Minor

French

Certificate Program

French/English and English/French Translators

COORDINATOR: Aurora Wolfgang

The study of French combines training in world 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:

Masterpieces of Literature
Independent Study
Comparative Studies in the Arts: East and West
Cultural Studies
Methods and Materials in the Teaching of
Humanities

B.A. IN FRENCH

Requirements:

Literature Track - 70 units Culture Studies Track - 70 units Business Track - 70 units Total units required for graduation: 180

Requirements for the B.A. in French:

Core requirements (32 units)

- 1. Proficiency in French equal to that of French 201 or equivalent.
- 2. FREN 202. Culture and Communication III (4)
- 3. FREN 295. Intermediate Assessment (2)
- 4. FREN 303. Contemporary Spoken French (4)
- 5. FREN 307. Phonetics (4)
- 6. FREN 350. Advanced French Composition (4)
- 7. FREN 381. French Civilization I (4)
- 8. FREN 382. French Civilization II (4)
- 9. FREN 450. Advanced Grammar Review (4)
- 10. FREN 496. Senior Assessment (2)

11. One of the following tracks:

Literature Track (38 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)

Studies in the Novel (4) FREN 411. FREN 412. Studies in Theater (4) FREN 413. Studies in Poetry (4) Special Topics in French Literature (4) FREN 420. Culture and Identity (4) FREN 471. 3. Eighteen units chosen from: FREN 250. Reading and Interpretation (4) FREN 575. Internship (1-4) HUM 312. Theories of Language Acquisition and Learning (4)

Any upper-division French course.

Culture Studies Track (38 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 (2-4) FREN 471. Culture and Identity (4) 2. Twenty-two units chosen from: FREN 250. Reading and Interpretation (4) FREN 575. Internship (1-4)
 - 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 (2)
 - FREN 350. Advanced French Composition (4)
 - FREN 460. Contemporary France (4)
 - FREN 461. Contemporary Issues in the Francophone World (4)
 - FREN 471. Culture and Identity (4)
 - FREN 575. Internship (1-4)
- 4. Sixteen units taken in the College of Business and Public Administration:
 - ACCT 211. Introductory Accounting I (4)
 - INFO 102. Introduction to Information Technology (2)
 - INFO 103. Using Information Technology Applications (2)
 - 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.
 - B. Eight additional upper-division units chosen from the courses listed above in category 3.

TEACHING CREDENTIAL PROGRAM

The B. A. in French, Literature Track and B. A. in French, Culture Studies Track are approved as single subject teaching credential programs provided that students complete at least 36 hours of upper-division coursework in courses taught in French. Upper-division coursework must include FREN 407 and 500. Students may complete no more than 32 units of the required coursework for the B.A. in French through courses taught at other institutions or through International Programs. FREN 295, 496 and 500 may only be completed at CSUSB. For information about the professional education component, admission to the teacher education program or specific requirements of the single subject waiver program, see Page 142 or contact the Credentials Office (C.A.S.E.).

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MINOR IN FRENCH

Requirements (34 units)

Requirements for a minor in French:

- 1. Proficiency in French equal to that of FREN 150. Intermediate French or equivalent.
- 2. FREN 201. Culture and Communication II (4)
- 3. FREN 202. Culture and Communication III (4) 4 Four units chosen from:
- Four units chosen from: FREN 250. Reading ar
- FREN 250. Reading and Interpretation (4) FREN 310. Approaches to Literature (4)
- 5. FREN 295. Intermediate Assessment (2)
- 6. Eight units chosen from:
 - FREN 303. Contemporary Spoken French (4) FREN 307. Phonetics (4) FREN 309A. French for Translators: General Tra
 - FREN 309A. French for Translators: General Translation (4)
 - FREN 350. Advanced French Composition (4)
- 7. 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:

- 1. Earned a 3.5 grade point average in the major.
- 2. Completed at least 45 units of the major at this university.
- 3. 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. See Page 55 for additional certificate information.

Certificate for French/English and English/French Translators

Certificate Requirements (26 units)

- 1. 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)
- 3. FREN 295. Intermediate Assessment (2)
- 4. FREN 309A. French for Translators: General Translation (4)
- 5. FREN 309B. French for Translators: Commercial Translation (2)
- 6. FREN 309C. French for Translators: Technical Translation (2)
- 7. FREN 350. Advanced French Composition (4)
- 8. Four units chosen from:
 - FREN 382. French Civilization II (4)
 - FREN 460. Contemporary France (4)
 - FREN 461. Contemporary Issues in the Francophone World (4)
- 9. 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. (FREN 101+102+150=**CAN** FREN SEQ A) (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**=C3) (FREN 101+102+150=**CAN** FREN SEQ A) (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**=C3) (FREN 101+102+150=**CAN** FREN SEQ A) (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=C3) (4 units)

201. Culture and Communication II

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 200 or consent of department. (**GE**=C3) (4 units)

202. Culture and Communication III

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**=C3) (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. (\mathbf{GE} =C3) (4 units)

295. Intermediate Assessment

Assessment of skills in reading, writing, listening, speaking and knowledge of culture based on defined performance standards. Students will be advised on how to improve skills and will also begin their on-line assessment portfolios. Satisfactory completion is required for enrollment in all upper-division French courses except FREN 303 and 307. Graded credit/no credit. (2 units)

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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 or consent of department. 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 written expression in a variety of genres, including narrative, correspondence, summaries and research reports. Frequent writing required. Course may be repeated once for credit. 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. (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. Advanced Grammar Review

An intensive review of advanced French grammar, including vocabulary building, proficiency in the written and spoken language. Prerequisites: FREN 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)

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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. (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

Assessment of proficiency and performance in five skill areas: listening, speaking, reading, writing and culture. Submission of a student portfolio. Students who have not yet demonstrated the required proficiencies in all areas will not pass the course. Additional coursework may be assigned before the course can be repeated; therefore, students should take this course at least two quarters prior to their anticipated graduation. Students planning on entering a teacher credential program should take FREN 500 concurrently. Graded credit/no credit. (2 units)

500. Advanced Performance Assessment

Students' performance in the five skills assessments of FREN 496 and the portfolio will be measured according to the outcomes expectations for teacher credential candidates. Minimum required performance in all areas is advanced-low with a required overall average of advanced-mid. Students will have additional required items in their assessment portfolios, including an official oral proficiency interview (additional fees required). Graded credit/no credit. Corequisite: FREN 496. (2 units)

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

Internship offers students wishing to pursue careers using French opportunities to observe and work with professionals in the field. Requires 30 hours of work/study per unit of credit plus a report documenting their activities and reflecting on their experiences. Graded credit/no credit. May be repeated for credit for a maximum of four units. Prerequisites: FREN 250 and 295, and consent of department. (1 to 4 units)

GEOGRAPHY

Department of Geography and Environmental Studies

Social and Behavioral Sciences Building, Room 327J

(909) 537-5519 http://geog.csusb.edu/

Bachelor of Arts

Geography

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Minor

Geography

Certificate Programs

Geographic Information Systems Urban Planning

FACULTY: Julie Cidell, Jeffrey Hackel (Chair), Michal Kohout, Ted McDowell, Norman Meek, James Mulvihill, 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 20.

B.A. IN GEOGRAPHY

Requirements (64 units)

Total units required for graduation: 180

Requirements for the B.A. in Geography:

Lower-division requirements (18 units)

- 1. GEOG 100. Introduction to Human Geography (4)
- 2. GEOG 103. Physical Geography (5)
- 3. GEOG 201. Map Interpretation (4)
- 4. GEOG 202. Introduction to Geographical Information Systems and Mapping (5)

Upper-division requirements (46 units)

- 1. GEOG 305. Geographic Statistics and Research Methods (4)
- 2. Twelve units chosen from:
 - GEOG 320. Geography of Social Issues (4)
 - GEOG 322. United States and Mexico Border Issues (4)
 - GEOG 350. Conservation and Natural Resources (4)
 - GEOG 380. Population Geography (4)
 - GEOG 420. Geography of Economic Activity (4)

- May choose only one of the following two courses: GEOG 415. Urban Planning and Land Development (4) GEOG 440. Understanding the City (4)
- Twelve units chosen from: GEOG 304. Field Methods in Geography (4) May choose only one of the following two courses: GEOG 360. Weather and Climate (4) GEOG 365. Climate Change (4) GEOG 370. Landscape Analysis (4) GEOG 470. Hydrology and Water Resources (4) GEOG 480. Geomorphology (4)
- 4. Eight units chosen from: GEOG 312. Geography of the Developing World (4) May choose one of the following two courses: GEOG 313. Geography of the Developed World (4) GEOG 323. Area Study: North America (4)
- 5. A minimum of four units chosen from: GEOG 306. Remote Sensing of the Environment (4)
 - GEOG 307. Transportation Issues and Development (4)
 - GEOG 308. Advanced Geographic Information Systems (5)
 - GEOG 402. Geographic Information Systems Applications (5)
 - GEOG 403. Advanced Map Design (5)
 - GEOG 406. Digital Image Processing (4)
- 6. GEOG 500. Senior Seminar (2)
- Four units of upper-division course work in geography except GEOG 300 and 311 which cannot count for the Geography major.

MINOR IN GEOGRAPHY Requirements (24 units)

Requirements for a minor in Geography:

- 1. GEOG 420. Geography of Economic Activity (4)
- Twenty units chosen from any geography courses, of which at least fifteen must be upper-division. Only four of these units may be drawn from the area studies group.

DEPARTMENTAL HONORS

Students majoring in geography are eligible to receive honors in geography at graduation if they have:

- 1. Completed at least one-half of the course work required by the major at this university;
- 2. Earned a grade point average of at least 3.5 in the major, both at this university and overall;
- 3. Earned an overall undergraduate grade point average of 3.0 or better;
- 4. Completed a senior project approved in advance by the department chair.

Students interested in receiving this recognition must initiate the process by making a formal application with the Geography Department Administrative Support Coordinator.

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 55 for additional certificate information.

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Certificate in Geographic Information Systems

Certificate Requirements (27 units)

- 1. GEOG 201. Map Interpretation (4)
- 2. GEOG 202. Introduction to Geographic Information Systems and Mapping (5)
- 3. GEOG 308. Advanced Geographic Information Systems (5)
- 4. GEOG 402. Geographic Information Systems Applications (5)
- 5. A minimum of eight units chosen from:
 - GEOG 306. Remote Sensing of Environment (4)
 - GEOG 403. Advanced Map Design (5) GEOG 406. Digital Image Processing (4)
 - GEOG 575. Internship in Geography (5)

Certificate in Urban Planning

Certificate Requirements (25 units)

1.	GEOG 202.	Introduction to Geographic Information Systems and Mapping (5)
2.	GEOG 306.	Remote Sensing of Environment (4)
3.	GEOG 307.	Transportation Issues and Development (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)
	ECON 360.	Economics of the Environment (4)
	GEOG 350.	Conservation and Natural Resources (4)
	GEOG 575.	Internship in Geography (4)
	HSCI 478.	Environmental Health Management (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**=D4) (GEOG 100=**CAN** GEOG 4) (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. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (**GE**=B.3) (GEOG 103=**CAN** GEOG 6) (5 units)

104. Physical Geography Laboratory

Physical geography laboratory course designed to supplement a physical geography lecture course taken elsewhere without an accompanying laboratory. Materials fee required. Prerequisites: satisfactory score on the Entry Level Mathematics examination, the transferable equivalent of Introductory Physical Geography lecture, and permission of department. (1 unit)

201. Map Interpretation

Introduction to maps as a communication tool, focusing on map fundamentals, such as scale, symbols and design, as well as using maps as a practical device for navigation and spatial measurement. Participation in a weekend outdoor map reading exercise is required. Formerly GEOG 300. (4 units)

202. 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. Materials fee required. Formerly GEOG 301. (5 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

300. Geography in the Elementary and Middle School Classroom

Introduces liberal studies students to geography in the California/Social Science Standards. Students learn to integrate geographic principles and theories with the other social sciences. May not be counted toward fulfillment of requirements in the geography major or minor. (4 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. Materials fee required. Prerequisites: GEOG 103 and 201. (4 units)

305. Geographic Statistics and Research Methods

Introduction to basic statistical concepts and quantitative methods used in geography, including spatial analysis and the writing of geographic research reports. A computer statistical program is used. (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)

307. Transportation Issues and Development

Transportation geography using both theory and applications. Topics include historical, economic, political, social and environmental aspects of road, rail, water, and air transportation. Examples will be global but will largely focus on the United States and the Inland Empire. (4 units)

308. Advanced Geographic Information Systems

Advanced study of the principles and theories involved when working with geographic information systems (GIS). Emphasis on the input, storage, manipulation, and analysis of geographic data. Four hours lecture and three hours laboratory. Materials fee required. Formerly GEOG 401. Prerequisite: GEOG 202 or consent of instructor. (5 units)

311. The Dynamic Earth

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Tailored to students intending to teach grades K-8. A systematic survey of Earth's physical environment, including the spatial and temporal interrelationships among the Earth's atmosphere, oceans and land. Students will be introduced to selected methods and tools of scientific inquiry and analysis used in the earth and space sciences. May not be counted towards fulfillment of requirements in the geography major or minor. Four hours lecture and three hours laboratory. prerequisites: a college-level chemistry course and a college-level physics course, or consent of instructor. (5 units)

312. Geography of the Developing World

Geographic exploration of the developing regions of the world, including economic, political, social, and cultural issues. Emphasis will be on comparative analysis and spatial distribution. (4 units)

313. Geography of the Developed World

Geographic exploration of the developed regions of the world, including economic, political, social, and cultural issues. Emphasis will be on comparative analysis and spatial distribution. (4 units)

320. Geography of Social Issues

Description and analysis of the causes of socially derived geographic variation in the United States and the world. Emphasis is on political, economic, gender and ethnic group characteristics and interactions. (4 units)

322. United States and Mexico Border Issues

Introduction to U.S.-Mexico border issues, including the social interactions and processes that distinguish the area. Analysis will focus on the characteristics of everyday life as shaped by political, economic, and cultural issues from inside and outside the region. (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)

341. Military Geography

Examination of terrain, climate, and other physical geography factors that influence military operations. Formerly a topic under GEOG 390. (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)

370. Landscape Analysis

Analysis of the earth as a mosaic of varying size habitat patches. Principles of geography, ecology, and biogeography are used to examine the characteristics and processes that work within and between patches. The application of landscape concepts to land use planning will be discussed, as will methods for determining spatial patterning. Formerly GEOG 460. Prerequisites: BIOL 100 or HSCI 120; and GEOG 103; or consent of instructor. (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)

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. Materials fee required. Formerly a topic under GEOG 390. Prerequisite: GEOG 202 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. Materials fee required. Formerly GEOG 303. Prerequisite: GEOG 202 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)

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)

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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 and environmental studies majors, will be made by assembling an academic portfolio of completed coursework. Graded credit/no credit. Prerequisites: senior standing in geography or environmental studies and permission of Geography 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. (2 to 4 units)

Graduate level courses can be found on Page 430.

GEOLOGY

Department of Geological Sciences

Biological Science Building, Room 122A (909) 537-5336 http://geology.csusb.edu/

Bachelor of Arts

Geology

Bachelor of Science

Geology

General Geology Option Environmental Geology Option

Master of Science

Environmental Sciences

(Degree requirements can be found on Page 431.)

Minor

Geology

FACULTY: Bonnie J. Brunkhorst, Louis A. Fernández, Joan E. Fryxell, W. Britt Leatham, Sally F. McGill, Erik Melchiorre, 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 (92-95 units)

Total units required for graduation: 180

Requirements for the B.A. in Geology:

Lower-division requirements (37-40 units)

- 1. BIOL 200. Biology of the Cell (5)
- A minimum of five units chosen from: 2. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5) CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6) 3. GEOL 101. Introductory Geology (5) Historical Geology (5) 4. GEOL 250. Basic Concepts of Calculus (4) 5. MATH 211. 6. 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:

6

PHYS 221.	General Physics I (5)
PHYS 222.	General Physics II (5)
PHYS 223.	General Physics III (5)

Upper-division requirements (55 units)

1. GEOL 301. Introduction to Geologic Mapping (4)

2. Two units chosen from:

GEOL 307.	Service Learning in the Earth Sciences (1-2)
GEOL 310.	Regional Field Geology (2)
GEOL 395.	Directed Studies (2-4)
GEOL 399.	Undergraduate Geological Research (2-4)
GEOL 595.	Independent Study (2-6)
GEOL 312.	Geology of California (4)
GEOL 320.	Mineralogy and Crystallography (5)
GEOL 321.	Optical Mineralogy (3)
GEOL 322.	Introduction to Geochemistry (4)
GEOL 325.	Igneous and Metamorphic Petrology (5)
GEOL 330.	Sedimentary Petrology (5)
GEOL 340.	Stratigraphy (5)
GEOL 350.	Paleontology (5)
GEOL 360.	Structural Geology (5)
GEOL 370.	Tectonics (4)
GEOL 399.	Undergraduate Geologic Research (2)
	GEOL 310. GEOL 395. GEOL 399. GEOL 595. GEOL 312. GEOL 320. GEOL 321. GEOL 322. GEOL 325. GEOL 330. GEOL 340. GEOL 350. GEOL 360. GEOL 370.

 GEOL 399. Undergraduate Geologic Research (2 14. GEOL 590. Senior Seminar (2)

B.S. in Geology Requirements (119 units)

Total units required for graduation: 183-187

Requirements for the B.S. in Geology:

Lower-division requirements (50 units)

	BIOL 100. BIOL 200.	Topics in Biology (5) 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. PHYS 221. General Physics I (5)
- 9. PHYS 222. General Physics II (5)
- 10. PHYS 223. General Physics III (5)

Upper-division requirements (69 units)

- 1. GEOL 301. Introduction to Geologic Mapping (4)
- 2. GEOL 320. Mineralogy and Crystallography (5)
- 3. GEOL 321. Optical Mineralogy (3)
- 4. GEOL 322. Introduction to Geochemistry (4)
- 5. GEOL 325. Igneous and Metamorphic Petrology (5)
- 6. GEOL 330. Sedimentary Petrology (5)
- GEOL 340. Stratigraphy (5)
 GEOL 360. Structural Geolog
- GEOL 360. Structural Geology (5)
 Eight units chosen from:
 - GEOL 390. Field Camp (8)
 - GEOL 391. Advanced Geologic Mapping (2-6)
- 10. GEOL 399. Undergraduate Geologic Research (2)
- 11. GEOL 590. Senior Seminar (2)

General Geology Option (21 units)

- 1. GEOL 312. Geology of California (4)
- 2. GEOL 350. Paleontology (5)
- 3. GEOL 370. Tectonics (4)

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(FWS)

- Four units chosen from: GEOL 307. Service Learning in the Earth
 - GEOL 307. Service Learning in the Earth Sciences (1-2) GEOL 310. Regional Field Geology (2)
 - GEOL 395. Directed Studies (2)
 - GEOL 399. Undergraduate Geologic Research (2-4)
 - GEOL 575. Internship in Geology (2-4)
 - GEOL 595. Independent Study (2-6)
- 5. A minimum of four units chosen from:
- GEOG 202. 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)
 - MATH 262. Applied Statistics (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. A minimum of four units chosen from:
- CHEM 206. Organic Chemistry (5)
 - GEOG 202. 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 557. Hazardous Material Control (4)
 - MATH 262. Applied Statistics (4)

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, 306 or 309.

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;
- 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

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. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (**GE=B.3**) (GEOL 101=**CAN** GEOL 2) (5 units)

102. Introductory Geology Laboratory (FWS)

Designed for students who have taken an introductory geology lecture elsewhere. Hands-on introduction to the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. Three hours laboratory. Materials fee required. Prerequisites: satisfactory score on the Entry Level Mathematics examination, and the transferable equivalent to the Introductory Geology lecture, and permission of department. (1 unit)

205. Volcanic Hazards, Surveillance and Prediction (W-07)

An introduction to the study of volcanic eruptions; assessment of their hazards; methods used in their surveillance and in the prediction of eruptions. Effects of volcanic eruptions on humans, buildings, economic activities, and world climate. Two hours lecture. (**GE**=B4) (2 units)

210. Earthquakes: Science and Public Policy

(F06, S07)

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**=B4) (2 units)

250. Historical Geology (S)

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. Materials fee required. 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. (1 or 2 units)

Upper Division

301. Introduction to Geologic Mapping (F)

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. Materials fee required. Prerequisite: GEOL 101 or GEOG 103. (4 units) 7

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(FWS) 304. Geology in the Classroom

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. Materials fee required. Prerequisite or corequisite: GEOL 304. (1 unit)

306. Oceans and Atmospheres for the Science Teacher (W-07)

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. Materials fee required. Field trips may be required. Prerequisite: one laboratory course in physics or chemistry. (3 units)

307. Service Learning in the Earth Sciences (FWS)

Supervised activities in geology or geological education providing service to campus or community constituents. Minimum of 30 hours required per unit of credit. May be repeated for credit. Graded credit/no credit. Prerequisite: consent of instructor. (1 to 2 units)

309. Earth: The Blue Planet

Tailored for students intending to teach grades K-8. Planet Earth studied as a whole, comprising many separate but interacting systems. Earth's place and role in the solar system; what the planet is made of and how it is changing; surface processes that shape its exterior; influences on its habitable envelope. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: a college-level chemistry course and a college-level physics course, or consent of instructor. (5 units)

310. Regional Field Geology

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)

(F)

(FWS)

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

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. Materials fee required. Field trips may be required. Prerequisite: GEOL 101. Prerequisite or corequisite: CHEM 205 or 215. (5 units)

321. Optical Mineralogy

(W)

Theory and application of petrographic microscopy for the analysis and identification of minerals. Two hours lecture and three hours laboratory. Materials fee required. Formerly GEOL 315. Prerequisite: CHEM 205 or 215. Recommended: GEOL 320. (3 units)

322. Introduction to Geochemistry

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. Four hours lecture. Formerly GEOL 300. Prerequisite: CHEM 205 or 215. Recommended: GEOL 320. (4 units)

325. Igneous and Metamorphic Petrology (S)

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. Materials fee required. Overnight field trips may be required. Prerequisite: GEOL 320 and 321. Prerequisite or corequisite: CHEM 216. (5 units)

(W) 330. Sedimentary Petrology

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. Materials fee required. Prerequisite: GEOL 101 or equivalent. (5 units)

340. Stratigraphy (S)

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. Materials fee required. Overnight field trips may be required. Prerequisite: GEOL 330. (5 units)

350. Paleontology

Concepts of paleobiology exemplified by systematic study of important fossil groups. Four hours lecture and three hours laboratory. Materials fee required. Overnight field trips may be required. Prerequisite: an introductory geology or biology course. (5 units)

360. Structural Geology

(W)

(W)

(F)

(S)

Mechanics and characteristics of rock deformation and analytical techniques for the solution of structural relationships. Four hours lecture and three hours laboratory. Materials fee required. Overnight field trips may be required. Prerequisites: GEOL 101 and PHYS 121 or 221. (5 units)

370. Tectonics

(S) 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 (F)

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

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 Materials fee required. Field trips are required. Prerequisite: GEOL 375. (4 units)

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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. Materials fee required. Prerequisites: GEOL 301, 340, 360 and consent of instructor. (8 units)

391. Advanced Geologic Mapping

(WS)

(S)

Techniques of geologic mapping as applied to selected disciplines within the broad field of geosciences. May be repeated for credit with departmental consent. A total of eight units may be applied towards the degree. Prerequisites: GEOL 301 and consent of instructor. (2 to 6 units)

395. Directed Studies (FWS)

Individual laboratory, field or library study conducted under the direction of a faculty member. May be repeated for credit, a total of six units in GEOL 395 may be applied toward graduation. Prerequisites: consent of the department 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. (1 to 4 units)

399. Undergraduate Geological Research (FWS) Individual scholarly research project conducted under the direction of a faculty member. Project will include a written description of research question, research design, methods used, data collected, and interpretation of results will be presented. Oral presentation as well is encouraged. May be repeated for credit with department consent. A total of six units may be applied towards graduation. Prerequisites: consent of instructor and department chair prior to beginning of quarter in which work will be done. (2 to 4 units)

430. Engineering Geology

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. Materials fee required. 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 Materials fee required. (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. Materials fee required. (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. Materials fee required. (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: 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 per unit enrolled. Materials fee required. May be repeated for credit as topics change. Overnight field trips may be required. Prerequisite: consent of instructor. (1 to 2 units)

575. Internship in Geology (FWS)

Work experience off and on campus in geologically related work. Supervised by a member of Geological Sciences faculty. May be repeated for credit with department consent. A total of four units may be applied towards graduation. Graded credit/no credit. Prerequisite: consent of instructor. (2 to 4 units)

590. Senior Seminar

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. Pre-requisite or corequisite: GEOL 395, 399 or 595. (2 units)

595. Independent Study

(FWS)

(S)

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. (1 to 6 units)

Graduate level courses can be found on Page 431.

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GERMAN

Department of World Languages and Literatures

University Hall, Room 314

(909) 537-5847 http://flan.csusb.edu/

Minor

German

Certificate Program

German/English Translators

COORDINATOR: Ruth Burke

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 World Languages and Literatures.

Courses taught in English are listed under Foreign Languages and Literatures (Page 170) and Humanities (Page 216). 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 World 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. See Page 55 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 World 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. (GER 101+102+150=**CAN** GERM SEQ A) (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. (GER 101+102+150=**CAN** GERM SEQ A) (**GE**=C3) (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. (GER 101+102+150=**CAN** GERM SEQ A) (**GE**=C3) (4 units)

212. Composition

Comprehensive review of the principles of German grammar, emphasizing their application to composition. Prerequisite: GER 150 or equivalent. (GE=C3) (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**=C3) (4 units)

216. Introduction to Literary Texts

Techniques of literary study and analysis. Vocabulary development. Prerequisite: GER 150 or equivalent. (**GE**=C3) (4 units)

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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**=C3) (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. (1 or 2 units) С

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HEALTH CARE MANAGEMENT

Department of Health Science and Human Ecology

Jack Brown Hall, Room 263

(909) 537-5339 http://health.csusb.edu/hsci/

Bachelor of Science in Health Science

Concentration in Health Care Management

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 Care Management 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 188.

Health Care Management Concentration

Core Courses

- HSCI 120. Health and Society: An Ecological Approach (5)
 HSCI 315. Statistics for the Health Sciences (4)
- 3. HSCI 352. Principles of Environmental Health (4)
- 4 Four units chosen from:
- HSCI 355. Health, Consumer and Environmental Law (4)
- HSCI 478. Environmental Health Management (4)
- 5. HSCI 367. Human Disease Mechanisms (4)
- 6. HSCI 451. Principles of Epidemiology (4)
- 7. HSCI 470. Health Behavior (4)

Concentration Courses

1.	ACCT 211.	Introductory Accounting I (4)
2.	ACCT 212.	Introductory Accounting II (4)
3.	ECON 200.	Principles of Microeconomics (4)
4.	HSCI 271.	Introduction to Community Health (4)
5.	HSCI 273.	Software Applications in the Health Sciences (3)
6.	HSCI 415.	Medical Care Organizations (4)
7.	HSCI 423.	Health and Wellness of Older Adults (4)
8	HSCI 436.	Human Resource Management in Ambulatory
		Care/Group Practice Management (4)
9.	Eight units cho	osen from:
	HSCI 438.	Financial Management of Ambulatory Care/
		Group Practice Management (4)
	HSCI 452.	Special Topics in Health Science and Human
		Ecology (4)
	HSCI 510.	Hospital Administration (4)
	HSCI 511.	Organization and Management Of Long-Term
		Care Facilities (4)
	HSCI 513.	Managed Care Systems (4)
10.	HSCI 460.	Strategic Planning and Marketing in the Health
		Care System (4)
11.	HSCI 489.	Pre-Field Experience (2)

12. HSCI 490. Health Service Administration (4)

- 13. HSCI 493. Field Experience Seminar (1)
- 14. HSCI 495A. Field Experience (5)
- 15. HSCI 498. Undergraduate Research Methodology in Health Science (5)
- 16. MGMT 302. Management and Organizational Behavior (4)
- 17. Twelve units of health science electives or other electives approved by an advisor.

HEALTH EDUCATION

Department of Health Science and Human Ecology

Jack Brown Hall, Room 263 (909) 537-5339 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 Certificate 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 188.

Community Health Education and Promotion Concentration School Health Concentration

Core Courses

00.			
1. 2. 3. 4 5. 6. 7.	HSCI 120. HSCI 315. HSCI 352. Four units cho HSCI 355. HSCI 478. HSCI 367. HSCI 451. HSCI 470.	Health and Society: An Ecological Approach (5) Statistics for the Health Sciences ((4) Principles of Environmental Health (4) sen from: Health, Consumer and Environmental Law (4) Environmental Health Management (4) Human Disease Mechanisms (4) Principles of Epidemiology (4) Health Behavior (4)	
Co	ncentration Cou	irses	
1. 2. 3. 4.	BIOL 220. BIOL 223. BIOL 224. CHEM 205.	Principles of Microbiology (5) Human Physiology and Anatomy I (5) Human Physiology and Anatomy II (5) Fundamentals of Chemistry I: General Chemistry (5)	
5. 6. 7.	HSCI 271. HSCI 273. HSCI 301.	Introduction to Community Health (4) Software Applications in the Health Sciences (3) Principles of Health Education for Health Educators (4)	
11. 12.	HSCI 310. HSCI 342. HSCI 359. HSCI 364. HSCI 471. HSCI 472.	Health and Human Sexuality (4) Nutrition for Your Health (4) International Perspectives on Health (4) Drug and Alcohol Use and Abuse (4) Health Promotion: Program Planning and Implementation (4) Program Evaluation (4)	
14. 15. 16.	HSCI 473. HSCI 489. HSCI 495A. HSCI 495B.	Instructional Methods in Health Education (4) Pre-Field Experience (2) Field Experience (5) Field Experience (6)	

- 18. HSCI 498. Undergraduate Research Methodology in Health Science (5)
- School Health Concentration (in addition to those listed above)
- HSCI 432. School Health Administration and Planning (4)
 HSCI 433. School Health (4)
- Students are not required to take HSCI 359, 492A, or 492C.

HEALTH SCIENCE

Accredited by the National Environmental Health Science and Protection Accreditation Council; California Department of Health Services-Environmental Health Specialist Registration Committee (Environmental Health Science Option)

Department of Health Science and Human Ecology

Jack Brown Hall, Room 263

(909) 537-5339 http://health.csusb.edu/

Bachelor of Science

Health Science

with concentrations in: Ambulatory Care/Group Practice Management Community Health Education and Promotion Environmental Health Science Health Care Management School Health Nutrition and Food Sciences

(Nutrition and Food Sciences requirements can be found on Page 267.)

Teaching Credential Preparation Program

Health Science

Minor

Health Science Nutrition and Food Sciences

Master of Arts

Health Education Concentration, M.A. in Education (Degree requirements can be found on Page 378.)

Master of Public Health

(Degree requirements can be found on Page 470.)

Master of Science

Health Services Administration (Degree requirements can be found on Page 432.)

Certificate Programs

Ambulatory Care/Group Practice Management Community Mental Health Gerontology Health Care Management (Gerontology certificate requirements can be found on Page 298.)

Certification

Audiometrist Certification

FACULTY: Dorothy Chen-Maynard, Kim Clark, Richard Eberst (Emeritus), Daniel Fahey, Marsha Greer, Joe Hughes, Robert LaChausse, 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 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 See Page 267 of this catalog for the description of this degree. In addition the department offers a Master of Science in Health Services Administration, see Page 432 and a Masters in Public Health, see Page 470. Within the M.A. in Education, students have the opportunity to take the option in Health Education. See Page 378 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.

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 see Page 60 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 (105-116 units)

Total units required for graduation: 180-187

Requirements for the B.S. in Health Science:

Note: Certain required courses also apply in the university's general education program (See Page 63).

Lower-division requirement (5 units)

1. HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements (24 units)

- 1. HSCI 315. Statistics for the Health Sciences (4)
- 2. HSCI 352. Principles of Environmental Health (4)
- 3. Four units chosen from:
- HSCI 355. Health, Consumer and Environmental Law (4) HSCI 478. Environmental Health Management (4) required for Environmental Health Science concentration
- 4. HSCI 367. Human Disease Mechanisms (4)

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6. HSCI 470. Health Behavior (4)

Concentration (76-87 units)

One of the following five concentrations is required for the major:

Ambulatory Care/Group Practice Management Concentration (76 units)

Co	ncentration (7	6 units)
1.	ACCT 211.	Introductory Accounting I (4)
2.	ACCT 212.	Introductory Accounting II (4)
3.	ECON 200.	Principles of Microeconomics (4)
4.	HSCI 271.	Introduction to Community Health (4)
5.	HSCI 273.	Software Applications in the Health Sciences (3)
6.	HSCI 415.	Medical Care Organizations (4)
7.	HSCI 436.	Human Resources Management in Ambulatory
		Care/Group Practice Management (4)
8.	HSCI 437.	Information Systems as Applied to Ambulatory
		Care/Group Practice Management (4)
9.	HSCI 438.	Financial Management of Ambulatory Care/
		Group Practice Management (4)
10.	HSCI 460.	Strategic Planning and Marketing in the Health
		Care System (4)
	HSCI 489.	Pre-Field Experience (2)
12.	HSCI 490.	Health Service Administration (4)
13.	HSCI 495A.	Field Experience (5)
14.	HSCI 512.	Clinical Operations of Ambulatory Care/Group
		Practices (4)
15.	HSCI 513.	Managed Care Systems (4)
	MGMT 302.	Management and Organizational Behavior (4)
17.	Fourteen units	of health science electives or other electives
	approved by a	n advisor.
Co	mmunity Healt	h Education and Promotion
Co	ncentration (7)	7 units)
1.	BIOL 220.	Principles of Microbiology (5)
2.	BIOL 223.	Human Physiology and Anatomy I (5)
	BIOL 224.	Human Physiology and Anatomy II (5)
4.	CHEM 205.	Fundamentals of Chemistry I: General
		Chemistry (5)
5.	HSCI 271.	Introduction to Community Health (4)
6.	HSCI 273.	Software Applications in the Health Sciences (3)
7.	HSCI 301.	Principles of Health Education for Health
		Educators (4)
8.	HSCI 310.	Health and Human Sexuality (4)
9.	HSCI 342.	Nutrition for Your Health (4)
10.	HSCI 359.	International Perspectives on Health (4)
11.	HSCI 364.	Drug and Alcohol Use and Abuse (4)
12.	HSCI 471.	Health Promotion: Program Planning and
		Implementation (4)
	HSCI 472.	Program Evaluation (4)
	HSCI 473.	Instructional Methods in Health Education (4)
15.	HSCI 489.	Pre-Field Experience (2)
	HSCI 490.	Health Service Administration (4)
	HSCI 493.	Field Experience Seminar (1)
	HSCI 495B.	Field Experience (6)
19.	HSCI 498.	Undergraduate Research Methodology in Health
		Science (5)
Env	vironmental He	ealth Science Concentration (87 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 chose	c , i ()
		Principles of Microbiology (5)
	BIOL 320.	Microorganisms (6)
5.	CHEM 215.	General Chemistry I: Atomic Structure and

^{5.} CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)

6.	CHEM 216.	General Chemistry II: Principles of Chemical
7.	Organic chem Group A, B, o	Reactions (6) istry, a minimum of five units, choose from
	Group A, D, O	0.
	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. Group C	Organic Chemistry III: Laboratory (1)
	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.		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)
-	HSCI 496.	Internship in Environmental Health (4)
14.	Four units cho	
	MATH 192.	Methods of Calculus (4)
15	MATH 211.	Basic Concepts of Calculus (4)
15.	Group A:	thirteen units, choose Group A or B below:
	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.		alth science electives chosen from:
	HSCI 322.	Air Pollution (2)
	HSCI 324. HSCI 354.	Radiological Health and Safety (2) Solid Waste Management (2)
	HSCI 356.	Housing and Institutions (2)
	HSCI 358.	Water Quality and Pollution Control (4)
	HSCI 381.	Occupational Safety (4)
	HSCI 477.	Environmental Health Engineering (4)
	HSCI 499.	Directed Reading (1-4)
	HSCI 530.	Food-Borne Illnesses and Their Prevention (4)
	HSCI 531.	Bioterrorism (4)
	HSCI 557.	Hazardous Material Control (4)
	HSCI 558.	Management of Water Quality (4)
	HSCI 595.	Independent Study (1-4)
Не	alth Care Man	agement Concentration (76 units)
1.	ACCT 211.	Introductory Accounting I (4)
2.	ACCT 212.	Introductory Accounting II (4)
3. ⊿	ECON 200.	Principles of Microeconomics (4)
4. 5	HSCI 271.	Introduction to Community Health (4)
5. 6.	HSCI 273. HSCI 415.	Software Applications in the Health Sciences (3) Medical Care Organizations (4)
о. 7.	HSCI 415. HSCI 423.	Health and Wellness of Older Adults (4)
7. 8.	HSCI 436.	Human Resource Management in Ambulatory
0.	1001-100.	Care/Group Practice Management (4)
9.	Eight units cho	
	HSCI 438.	Financial Management of Ambulatory Care/
		Group Practice Management (4)
	HSCI 452.	Special Topics in Health Science and Human

Ecology (4)

Hospital Administration (4)

HSCI 510.

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	HSCI 511.	Organization and Management Of Long-Term
		Care Facilities (4)
10	HSCI 513. HSCI 460.	Managed Care Systems (4) Strategic Planning and Marketing in the Health
-		Care System (4)
	HSCI 489.	Pre-Field Experience (2)
	HSCI 490.	Health Service Administration (4)
-	HSCI 493.	Field Experience Seminar (1)
	HSCI 495A.	Field Experience (5)
15.	HSCI 498.	Undergraduate Research Methodology in Health Science (5)
	MGMT 302.	Management and Organizational Behavior (4)
17.	Twelve units o	f health science electives or other electives
	approved by a	n advisor.
Sc	hool Health Co	oncentration (77 units)
1.	BIOL 220.	Principles of Microbiology (5)
2.		Human Physiology and Anatomy I (5)
-	BIOL 224.	Human Physiology and Anatomy II (5)
4.	CHEM 205.	Fundamentals of Chemistry I: General Chemistry (5)
5.	HSCI 271.	Introduction to Community Health (4)
6.	HSCI 273.	Software Applications in the Health Sciences (3)
7.	HSCI 301.	Principles of Health Education for Health
		Educators (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 432.	School Health Administration and Planning (4)
	HSCI 433.	School Health Education (4)
13.	HSCI 471.	Health Promotion: Program Planning and
		Implementation (4)
	HSCI 472.	Program Evaluation (4)
-	HSCI 473.	Instructional Methods in Health Education (4)
-	HSCI 489.	Pre-Field Experience (2)
	HSCI 493.	Field Experience Seminar (1)
-	HSCI 495B.	Field Experience (6)
19.	HSCI 498.	Undergraduate Research Methodology in Health Science (5)

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 142 or contact the Credentials Office (C.A.S.E.).

For teachers needing to clear their credential, the following course meets the Single Subject Waiver Requirement for Health:

HSCI 540. School Health Programs and Practices

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 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)

1. HSCI 120. Health and Society: An Ecological Approach (5)

Upper-division requirements (26 units)

- 1. HSCI 352. Principles of Environmental Health (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;
- 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. See Page 55 for additional certificate information.

Certificate in Ambulatory Care/Group Practice Management

Certificate requirements (36 units)

ACCT 211. Introductory Accounting I (4) 1 2. HSCI 415. Medical Care Organizations (4) Human Resources Management in Ambulatory HSCI 436. 3. Care/Group Practice Management (4) 4. HSCI 437. Information Systems as Applied to Ambulatory Care/Group Practice Management (4) 5. HSCI 438. Financial Management in Ambulatory Care/Group Practice Management (4) 6. HSCI 460. Strategic Planning and Marketing in the Health Care System (4) 7. HSCI 512. Clinical Operations of Ambulatory Care/Group Practices (4) 8. HSCI 513. Managed Care Systems (4) MGMT 302. Management and Organizational Behavior (4) 9.

Certificate in Community Mental Health

Certificate requirements (30 units)

- 1. HSCI 271. Introduction to Community Health (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)

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HSCI 495A. Field Experience (5) PSYC 201. Developmental Psychology (4) PSYC 315. Communication Processes (4) Psychology of Adulthood and Aging (4) PSYC 329. Drugs and Behavior (4) PSYC 333. 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 298.

Certificate in Health Care Management

Certificate requirements (32 units)

1.	ACCT 211.	Introductory Accounting I (4)
2.	HSCI 120.	Health and Society: An Ecological Approach (4)
3.	HSCI 415.	Medical Care Organizations (4)
4.	HSCI 460.	Strategic Planning and Marketing in the Health
		Care System (4)
5.	HSCI 490.	Health Service Administration (4)
6.	Eight units chosen from:	
	HSCI 271.	Introduction to Community Health (4)
	HSCI 511.	Organization and Management of Long-Term
		Care Facilities (4)
	HSCI 512.	Clinical Operations of Ambulatory Care/Group
		Practices (4)
	HSCI 513.	Management Care Systems (4)
7.	MGMT 302.	Management and Organizational Behavior (4)

CERTIFICATION

Audiometrist Certification

Certification requirements (4 units)

Offered through the College of Extended Learning, 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

100. Concepts in Health

Course content is formulated for those planning a career in K-12 education, including: psychosocial health and family life; alcohol, tobacco and other drugs; nutrition; chronic and communicable disease; consumer health; and environmental health. Standards and guidelines for coordinated school health programs and comprehensive health education are introduced. This course does not include instructional methodology, and should not be taken by post-baccalaureate students to meet state standards for the clear credential. (2 units)

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**=B2) (5 units)

225. The Dietetic Profession

An overview of the professional development of dietetic education and scope of dietetic practice. (1 unit)

244. Introduction to Culinary Arts

The basics of food preparation and culinary skills; students will learn about shopping, preparation and handling of food, food safety, and selection and use of kitchen equipment and tools. Provides students with basic food preparation and culinary techniques, appropriate for non-majors. One hour lecture and three hours laboratory. (2 units)

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)

246. Computer Technology in Nutrition and Food Sciences

Introduction, use and application of dietetic and nutrition software and technology, including programs for diet analysis, menu analysis, productivity in foodservice, SPSS, other web-based technology and PDA as appropriate for nutrition profession. One hour lecture and three hours laboratory. Materials fee required. (2 units)

271. Introduction to Community Health

Introduction to health issues and needs in various types of communities, and to the concepts underlying community health efforts of public, private and voluntary organizations. Formerly HSCI 371. (4 units)

273. 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. Formerly HSCI 373. Materials fee required. Two hours lecture and three hours laboratory. (3 units)

295. Special Projects in Health Science

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of department. (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)

303. AIDS and Society

The HIV/AIDS epidemic continues to threaten the cultural, economic and political stability of affected populations. This course uses HIV/AIDS as an example for exploration of the local, national and world community's historical, current and future social and political response to this and similar health problems. (2 units)

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305. Stress Management

Examines the history of stress-related research, sources of stress in modern society, the body's response to stress, and recent advances in psycho-neuro-immunology. Also included is the exploration of a variety of stress control techniques applicable to both personal and professional settings. (2 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)

315. Statistics for the Health Sciences

Introduction to the analysis, interpretation and presentation of data acquired for health sciences and public health. Emphasis will be on application rather than theory. Four hours lecture. Prerequisite: HSCI 271 and 273 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. Pre-requisites: college-level courses in biology and chemistry. (2 units)

324. Radiological Health and Safety

lonizing 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)

335. Reproductive Health

Provides an overview of reproductive health issues facing men and women today, including but not limited to: human reproductive anatomy; self-care and medical examinations; commonly occurring reproductive disorders; symptoms and treatment including fertility-related disorders; birth control methods; abortion; threats to health during pregnancy; access to quality health care. (2 units)

342. Nutrition for Your Health

Application of basic nutrition principles including functions of food and nutrients in health and disease prevention through the life cycle; understanding the impact of food choices and lifestyle on health; discussion of current trends, fads and fallacies in nutrition, including dietary supplements. May not be counted towards fulfilling requirements in the Nursing, or the Nutrition and Food Sciences Programs. (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. Fours 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, socioeconomic and ethnic factors and their influence on health. (2 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. (4 units)

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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. Pre-requisite: HSCI 350. (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)

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. (Also offered as KINE 382. Students may not receive credit for both.) (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. Nutrition Assessment and Research Methodology

Integration and application of experimental designs and methods employed in nutritional science research. Students will gain an understanding of interactions among nutrients and metabolic functions through data collection and analysis. Students will perform experiments and participate in discussions of nutritional assessment methods involving anthropometric, dietary, clinical and biochemical tests. One hour lecture and three hours laboratory. Prerequisites: HSCI 350 and 351 with concurrent enrollment in HSCI 383; or consent of instructor. (2 units)

385. Food and Culture: 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. Three hours lecture and three hours laboratory. (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. (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. Prerequisite: HSCI 352 or consent of instructor. Collegelevel course work in chemistry and physics is recommended. (5 units)

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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 271 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 271 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)

432. School Health Administration and Planning

Philosophical framework and history of the school health education program, including organization, funding, administration, and legal aspects. Emphasis on the roles of health teachers and school nurses within the context of a coordinated school health program, including parent-community advisory groups. Formerly HSCI 334 and 434. (4 units)

433. School Health Education

Health education concepts and content applied specifically to grades 7-12. Stresses instruction in health education for the teacher/school nurse, within the context of a coordinated school health system; teaching strategies and their adaptation to special populations; the identification and assessment of instructional resources; alignment with state and federal standards for health education. Formerly HSCI 333. Prerequisite: HSCI 120 or consent of instructor. (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)

436. Human Resource Management in Ambulatory Care/Group Practice Management

Principles of effective human resource management as applied to medical group and ambulatory care organizations. Issues involving wage and hour laws, state and federal regulations of the work place, recruitment and retention of staff, training, compensation and benefits, professional credentialing, licensure and continuing education. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

437. Information Systems as Applied to Ambulatory Care/Group Practice Management

Information system needs of medical group/ambulatory care organizations including the selection of software and hardware for an integrated information system. Solve problems related to the integration of clinical and financial data, understand the development of electronic medical records, patient scheduling systems, disease state management and HIPPA regulations. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

438. Financial Management of Ambulatory Care/Group Practice Management

Financial requirements of medical groups and ambulatory care organizations, including balance sheets and operating statement. Financial analysis and planning, budgeting, coding, billing and collecting, co-payments and deductibles, capitation and sub-capitation techniques, accounts receivable and claims payments. Previously offered as a topic under HSCI 452. Prerequisites: ACCT 211 and HSCI 120 or consent of instructor. (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. Further development and skills and knowledge necessary for nutrition and dietary intervention in disease processes: special emphasis on interrelationships between pathophysiology of disease processes and dietary modifications that are part of the treatment of disease/disability and/or to improve the quality of life. Formerly HSCI 369. Three hours lecture and three hours activity. Prerequisites: HSCI 350, 351, 365, 383, 384 and 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 473 and 444. (4 units)

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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)

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 498 or permission of instructor. (4 units)

473. 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. Four hours lecture. Formerly HSCI 302. Prerequisites: HSCI 120, 271, 273, 310, 342, 364, and 470; or consent 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 Experience

Preparatory work for field assignments through classroom discussion, agency contacts and experience. Prerequisites: completion of all prerequisite courses with a "C" or better, prior or concurrent enrollment in HSCI 310, 342, 364, 471 and 473 (for community and school health education majors); HSCI 415, 460 and 490 (for health care/ambulatory care management majors); HSCI 432 and 433 (for school health education 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. Graded credit/no credit. One hour seminar and twelve hours field study per week. Prerequisite: HSCI 489 or consent of instructor.

- A. (5 units)
- B. (5 units)
- C. (5 units)

493. Field Experience Seminar

Analyzes the field experience, examines trends in the profession, and prepares students for formal presentation of their internship project to department faculty, agency preceptors and other students. Must be taken concurrently with HSCI 495 until completion of field experience. Prerequisite: HSCI 489. (1 unit)

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. (1 to 5 units)

495. Field Experience

Structured practical pre-professional experience in approved public or private agency, health care or school settings. Graded credit/no credit. Prerequisites: HSCI 489; concurrent enrollment in HSCI 493; and signed consent of program advisor.

- A. A minimum of 240 hours of field experience for health care management or ambulatory care management majors. (5 units)
- B. A minimum of 320 hours of field experience for school or community health education majors. (6 units)

496. Internship in Environmental Health

Individual studies in environmental health. Students will be placed with public agencies to gain applied and/or research experience. Graded credit/no credit. Prerequisites: health science majors with

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concentration in environmental health science and senior class standing or consent of advisor. (4 units)

498. Undergraduate Research Methodology in Health Science

Entry-level research methods and application to contemporary health problems. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. Four hours lecture and three hours data analysis laboratory. Materials fee required. Formerly HSCI 598. Prerequisite: HSCI 315 or consent of instructor. (5 units)

499. Directed Reading

Library/literature research of special topic under the direction of a faculty member. May be repeated for credit, 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. (1 to 4 units)

503. Public Health Statistics

Statistical methods commonly used in the collection and analysis of public health data. Includes descriptive statistics, basic concepts of probability, statistical inference, analysis of variance, correlation, regression, non parametric statistics, and introduction to the use of statistical software. Emphasis on understanding and applying statistical concepts to the interpretations of health research data. Prerequisites: college algebra and admission to the department's graduate program or consent of instructor. (4 units)

504. Environmental and Occupational Health

Physical, chemical and biological factors of the environment and their impacts on human health and wellbeing. Includes air quality, water hygiene, food sanitation, radiation, solid and hazardous wastes, vector control and work place hazards with emphasis on contemporary issues. Prerequisite: graduate standing in the department's graduate program or consent of instructor. (4 units)

505. School Nurse Credential Program Orientation

Overview of the School Nurse Credential Program including coursework, expectations, timelines and basic skills needed to provide screening for vision, scoliosis, and dental needs. Graded credit/no credit. Prerequisite: admission to the School Nurse Credential Program. (2 units)

506. Epidemiology

Examination of epidemiologic concepts in relation to specific public health issues. Disease investigation techniques, causal factors, case histories, and related biostatistics are examined, including implications for public health policy and intervention. Prerequisites: HSCI 501, 502 and 503 or consent of instructor. (4 units)

510. Hospital Administration

Organization and administration of hospital facilities including planning and evaluation of services. Role of the hospital as part of the community. Formerly HSCI 427. Prerequisites: HSCI 271 and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

511. Organization and Management of Long-Term Care Facilities

Examination of the professional administrative role and managerial concepts in long-term facilities, including nursing homes. Formerly HSCI 455. Prerequisites: HSCI 271 and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

512. Clinical Operations of Ambulatory Care/Group Practices

The management of physician practices, medical groups, and ambulatory care organizations such as imaging centers, outpatient surgery centers and other outpatient services. Students will develop an understanding of issues and acquire skills in the management of nonacute care organizations owned or substantially controlled by physicians. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

513. Managed Care Systems

Principles and process of utilization management, risk contracting, capitation, provider contracting, contract negotiations, division of financial responsibility and Health Maintenance Organization (HMO) relationships, including quality outcomes measurements, patient satisfaction, and the specialist referral process. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (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 consent of instructor. (4 units)

530. 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. Formerly HSCI 430. Prerequisite: HSCI 352 or consent of instructor. (4 units)

531. Bioterrorism

History, identification, properties and mode of transmission of agents of bioterrorism, including preventive, control and treatment measures against bioterrorism. Prerequisites: college level biology and chemistry or consent of instructor. (4 units)

540. School Health Programs and Practices

Advanced examination of the teachers' role within a coordinated school health program. State and national guidelines are also reviewed. Prerequisite: must be a "2042" or Ryan credential candidate, 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 452. (4 units)

557. 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. Formerly HSCI 357. Prerequisites: college-level biology and chemistry courses. (4 units)

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558. Management of Water Quality

Survey of water quality parameters and pollution control techniques. Includes in-depth discussion on current topics in water legislation, water pollution and its impact on public health, flood impacts, water conservation options and drought management. Prerequisite: prior or concurrent enrollment in HSCI 506 or consent of instructor. (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)

561. Maternal and Child Nutrition

Significance and role of nutrition during pregnancy, lactation, and childhood including conditions that result from undernutrition. (2 units)

562. Issues in International Nutrition

Incidence of malnutrition in developing and industrialized countries. Focus on the multiple causes of malnutrition around the world, including food production and distribution, politics and economic policies. (2 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)

591. Health Education Curriculum and Instruction

Overview of health education curriculum development and implementation, including the parent-community advisory process, curriculum selection and alignment with state standards, course design, student grading and assignments, units of study and lesson plans, lesson presentations, and course evaluation methods. Prerequisite: completion of HSCI 332 or 333 or consent of instructor. (4 units)

592. Health Teaching Practicum

Classroom-based practice in teaching methods and materials used in K-16 health education, including planning, class management and student evaluation. One hour lecture and 12 hours fieldwork per week. Prerequisite: HSCI 591 or consent of instructor. (4 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. Graded credit/no credit. 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. (1 to 4 units)

HISTORY

Department of History

Social and Behavioral Sciences Building, Room 327F (909) 537-5524 http://csbs.csusb.edu/history/

Bachelor of Arts

History - Track A (Teaching Track)

History - Track B

History - Track C (Public and Oral History Option)

Teaching Credential Program Single Subject

Minor

History

FACULTY Elliot Barkan (Emeritus), Robert Blackey, Lanny Fields (Emeritus), Brett Flehinger, Joyce Hanson, Ward McAfee (Emeritus), Michael Persell (Emeritus), Pearl Ponce, Tim Pytell, Cheryl Riggs, Pedro Santoni (Chair), David Yaghoubian

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 three tracks: Track A (designed for students wishing to be history teachers), Track B (designed for students interested in any of the other fields open to History majors), and Track C (designed to provide skills and training in historical methodologies for public and oral history professionals in museums, archives, libraries, historic houses and such. Each track includes 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, Middle Eastern 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 (Teaching Track)

Requirements (125 units)

Total units required for graduation: 180

All students who are enrolled in the teacher track program should see a faculty advisor for assistance in choosing courses.

Requirements for the B.A. in History -Track A (Teaching Track):

Core Requirements (69 units, 25 of which also count toward meeting General Education requirements):

- 1. ANTH 102. Introduction to Anthropology: Culture and Society (4)
- Four units chosen from: ANTH 140. World Civilizations I, the Rise of Civilization (4) HIST 140. World Civilizations I, the Rise of Civilization (4)
- 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)
- 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. HIST 394. Introduction to History (4)
- 5. Twelve units of other upper-division coursework in history.
- 1. Four units chosen from:
 - HIST 383. Classical Islamic Civilization (4)
 - HIST 384. Modern Middle East (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)

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	3. Four units	s chosen from:
	HIST 390	, , , , , , , , , , , , , , , , , , , ,
	HIST 465	
	HIST 466	
	HIST 467 HIST 469	, , ,
	HIST 469 HIST 470	
6.		of upper-division coursework in history.
0.		bur units chosen from:
	HIST 340	. African-American History, 1620-1865 (4)
	HIST 341	
	HIST 344	
	HIST 345	
	HIST 391	
	HIST 565	, , ,
	HIST 566	Southwest: Past and Present (4)
	HIST 567	
		bur units chosen from:
	HIST 350	
	HIST 351	
		1783-1840 (4)
	HIST 352	. The Age of Jackson (4)
	HIST 353	
	HIST 354	()
	HIST 356	, , , , , , , , , , , , , , , , , , , ,
	HIST 357	
	HIST 358 HIST 359	
	HIST 559	
	HIST 540	
7.		of electives must be chosen from any of the previ-
		story courses (provided that none have been used
		rements for the major) or any from the following:
	May choose of	only one of the following two courses:
	ANTH 31	
	HIST 312	3 , ()
	HIST 320.	History of Ancient Greece (4)
	HIST 321. HIST 360.	History of Rome (4) American History Through Film (4)
	HIST 300. 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 415.	Studies in War and Society (4)
	HIST 422.	20th Century Americans (4)
	HIST 480.	History of Christianity I (4)
	HIST 481. HIST 485.	History of Christianity II (4) Arab-Israeli Conflict (4)
	HIST 486.	Modern Iran (4)
	HIST 487.	Topics in Modern Middle Eastern History (4)
	HIST 492.	U.S. Media and the Middle East (4)
	HIST 493.	Iran-U.S. Relations (4)
	HIST 493. HIST 495.	Iran-U.S. Relations (4) Politics of Oil (4)
	HIST 493. HIST 495. HIST 500.	Iran-U.S. Relations (4) Politics of Oil (4) Tudor and Stuart England (4)
	HIST 493. HIST 495. HIST 500. HIST 501.	Iran-U.S. Relations (4) Politics of Oil (4) Tudor and Stuart England (4) Britain, 1688-1901 (4)
	HIST 493. HIST 495. HIST 500. HIST 501. HIST 503.	Iran-U.S. Relations (4) Politics of Oil (4) Tudor and Stuart England (4) Britain, 1688-1901 (4) Europe Since 1945 (4)
	HIST 493. HIST 495. HIST 500. HIST 501. HIST 503. HIST 509.	Iran-U.S. Relations (4) Politics of Oil (4) Tudor and Stuart England (4) Britain, 1688-1901 (4) Europe Since 1945 (4) United States History in the Classroom (4)
	HIST 493. HIST 495. HIST 500. HIST 501. HIST 503. HIST 509. HIST 520.	Iran-U.S. Relations (4) Politics of Oil (4) Tudor and Stuart England (4) Britain, 1688-1901 (4) Europe Since 1945 (4) United States History in the Classroom (4) Tsarist Russia (4)
	HIST 493. HIST 495. HIST 500. HIST 501. HIST 503. HIST 509. HIST 520. HIST 521.	Iran-U.S. Relations (4) Politics of Oil (4) Tudor and Stuart England (4) Britain, 1688-1901 (4) Europe Since 1945 (4) United States History in the Classroom (4) Tsarist Russia (4) The Soviet Union (4)
	HIST 493. HIST 495. HIST 500. HIST 501. HIST 503. HIST 509. HIST 520.	Iran-U.S. Relations (4) Politics of Oil (4) Tudor and Stuart England (4) Britain, 1688-1901 (4) Europe Since 1945 (4) United States History in the Classroom (4) Tsarist Russia (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) The Origin and Contemporary Role of Latino HUM 335. Culture (4) HUM 350. The Cultures of American Childhood (4) HUM 370. African Heritage in the Arts (4) The World of Islam (4) HUM 375. Comparative Studies in the Arts: East and HUM 380. 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:

Requirements for the B.A. in History - Track B:		
1.	Four units cho	sen 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 394.	Introduction to History (4)
7.	HIST 494.	Proseminar in History (4)
8.	HIST 594.	Research Seminar in History (4)
9.		of other upper-division course work in history
		nsultation with an advisor, 24 of which must be
	chosen from o	ne of the following areas:
Afr	ican History	
	ANTH 302.	African Archaeology (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)
Asi	an History	
	HIST 383.	Classical Islamic Civilization (4)
	HIST 384.	Modern Middle East (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)
Eu	ropean 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. HIST 500. HIST 501. HIST 503. HIST 520. HIST 521. HIST 535.	History of Christianity II (4) Tudor and Stuart England (4) Britain, 1688-1901 (4) Europe Since 1945 (4) Tsarist Russia (4) The Soviet Union (4) Studies in European National History (4)
Latin American I	History
HIST 390. HIST 391. HIST 465. HIST 466. HIST 467. HIST 469. HIST 470.	History of Modern Mexico (4) Chicano History (4) Modern Central America (4) Foreign Relations of Latin America (4) Latin American History Through Film (4) Colonial Latin America (4) Modern Latin America (4)
United States Hi	story
HIST 340. HIST 341. HIST 344. HIST 345. HIST 350. HIST 351.	African-American History, 1620-1865 (4) African-American History, 1865-Present (4) Women in U.S. History, 1620-1865 (4) Women in U.S. History, 1865-Present (4) The American Colonies, 1607-1783 (4) The Evolution of American Democracy, 1783-
HIST 352. HIST 353. HIST 354. HIST 356. HIST 357. HIST 358. HIST 359. HIST 360. HIST 422. HIST 509. HIST 540. HIST 556. HIST 566. HIST 565. HIST 566.	1840 (4) The Age of Jackson (4) The Coming of the Civil War (4) Civil War and Reconstruction (4) The United States, 1877-1917 (4) The United States, 1917-1945 (4) United States in World War II (4) The United States Since 1945 (4) American History Through Film (4) 20th Century Americans (4) United States History in the Classroom (4) Constitutional History of the United States (4) Foreign Relations of the United States (4) History of the American West (4) History of Southern California (4) Ethnic Minorities in American History (4) Ethnic Minorities in the American Southwest: Past and Present (4)
	The Asian-American Experience (4) s from supporting disciplines outside the History nay be included with approval of the advisor or

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.

In exceptional circumstances HIST 595D may be substituted for either HIST 494 or 594, but not both, with consent of advisor and department chair.

B.A. IN HISTORY - TRACK C (Public and Oral History Option)

Requirements (80 units)

Total units required for graduation: 180

Requirements for the B.A. in History - Track C (Public and Oral History Option):

1. Four units chosen from:

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	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

 HIST 144. World Civilizations III, the Expansion o Europe (4)

- 4. HIST 200. United States to 1877 (4)
- 5. HIST 201. United States, 1877 to the Present (4)
- 6. HIST 323. Theories and Methods in Public History (4)
- 7. HIST 324. Theories and Methods in Oral History (4)
- 8. HIST 325. Public and Oral History Ethics (4)
- 9. Twelve units of professional preparation electives selected from:
 - HIST 326. Historic Preservation (4)
 - HIST 328. Oral History of Southern California (4)
 - HIST 329. Topics in Public History (4)
 - HIST 330. Topics in Oral History (4)
 - HIST 376. Exhibit Design (4)
 - May choose only one of the following two courses: ANTH 375. Museum Methods (4)
 - HIST 375. Museum Methods (4)
- 10. HIST 394. Introduction to History (4)
- 11. Eight units of supervised internship
 - HIST 575. Internship in History (4) for a total of (8)
- 12. Twenty-four units of upper-division course work (only four units of which may be chosen from outside of history) selected in consultation with an advisor which must be chosen from among any of the following:

African History

ANTH 302.	African Archeology (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)

Asian History

HIST 383.	Classical Islamic Civilization (4)
HIST 384.	Modern Middle East (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
HIST 307.	1815 (4) Modern Europe, 1815 to the Dresent (4)
	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 466. Foreign Relations of Latin 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)	HIST 467. Latin American History Through Film
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200 / History

History / 201

United States History

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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 352.	The Age of Jackson (4)
HIST 353.	The Coming of the Civil War (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 358.	United States in World War II (4)
HIST 359.	The United States Since 1945 (4)
HIST 360.	American History Through Film (4)
HIST 370.	History of California (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)

TEACHING CREDENTIAL PROGRAM

Students wishing to prepare for a single subject teaching credential in history are encouraged to 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 142 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 followin

/lay	choose	only	one	of	the	fol	lowing	two	courses:	

may encode en	ing the black of the following the bounded.
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 352.	The Age of Jackson (4)
HIST 353.	The Coming of the Civil War (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 358.	United States in World War II (4)
HIST 359.	The United States Since 1945 (4)
HIST 360.	American History Through Film (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 hist	
	Four units cho	
	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 I (4)
	HIST 500.	Tudor and Stuart England (4)
	HIST 500.	8 ()
	HIST 501. HIST 503.	Britain, 1688-1901 (4)
		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 h	5
	Four units cho	
	HIST 380.	History of World Religions (4)
	HIST 383.	Classical Islamic Civilization (4)
	HIST 384.	Modern Middle East (4)
	HIST 385.	Africa to 1500 (4)
	HIST 386.	Africa 1500 to 1870 (4)
	HIST 387.	Africa 1870 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 467.	Latin American History Through Film (4)
	HIST 469.	Colonial Latin America (4)
	HIST 470.	Modern Latin America (4)
Oth	ner Requiremer	nts (20 units)
	Sixteen units	
1. 2.		nich also count toward meeting General Education
۷.	requirements,	
	HUM 325.	
	HUM 325.	Perspectives on Gender (4) The Origin and Contemporary Polo of Lating
	10101 333.	The Origin and Contemporary Role of Latino Culture (4)

- HUM 350. The Cultures of American Childhood (5)
- HUM 370. African Heritage in the Arts (4)
- HUM 375. The World of Islam (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)

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DEPARTMENTAL HONORS

Students majoring in history are eligible to receive honors in history at graduation if the following conditions are met:

- 1. At least one-half of the course work required in the major is completed at this university;
- 2. Earned a grade point average of at least 3.5 in the major,
- including courses for the major taken elsewhere;
- 3. Earned an overall undergraduate grade point average of 3.0 ("B") or better;
- 4. 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.

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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.) (**GE**=D3) (HIST 140+142+144=**CAN** HIST SEQ C) (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**=D3) (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**=D3) (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**=D1) (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**=D1) (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=D1**) (HIST 201=**CAN** HIST 10; HIST 200+201=**CAN** HIST SEQ B) (4 units)

270. California History

Cultural and political history of California from pre-Columbian times to the present. Topics will include Native cultures, Spanish colonization, the mission system, Mexican rule, the Mexican war, the gold rush, the state constitution, Progressive-era political reforms, and immigration. Meets the subject matter requirements for the Liberal Studies degree, in preparation for teaching grades K-8. This course meets the state code requirement in state and local government. (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)

323. Theories and Methods in Public History

Introduction to the theories and methods used in public history, focusing on museums, historic sites, libraries, and archives, and the diverse media employed in the production of public history. Projects and field trips are required. (4 units)

324. Theories and Methods in Oral History

Introduction to the theories and methods used in oral history, focusing on the origins of the oral history movement, the issues involved in oral history, interviewing techniques, and the diverse media and technologies employed in the production of oral history. Oral history projects are required. (4 units)

325. Public and Oral History Ethics

Examines codes of ethics and professional conduct pertaining to oral history projects, research with human subjects, museum collections and exhibitions, the repatriation and handling of human remains and sacred objects, the management of historic sites, the documentation and handling of material culture, and the dissemination of information. (4 units)

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326. Historic Preservation

Examination of the methods, theories, and issues in historic preservation. Field trips and projects are required. Prerequisites: HIST 324 and 325, or consent of instructor. (4 units)

328. Oral History of Southern California

History course of Southern California with a focus on the Inland Empire. Field trips and oral history projects are required. Prerequisites: HIST 324 and 325, or consent of instructor. (4 units)

329. Topics in Public History

Examination of topics in public history, including local history, conservation, historic architecture, living history and material culture. May be repeated for credit as topics change. Prerequisites: HIST 323 and 325, or consent of instructor. (4 units)

330. Topics in Oral History

Examination of topics in oral history, including regional or ethnic groups, World War II, the Civil Rights movement, or the Vietnam War. May be repeated for credit as topics change. Prerequisites: HIST 324 and 325, or consent of instructor. (4 units)

340. African-American History, 1620-1865

History of African-American people in the United States during the slave era. Examines 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. Places 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)

346. Women in the Black Freedom Movement

Examines the roles of women in the struggle for social justice and black equality in America. Treats the historical background to the movement including the key women activists of the civil rights decade, 1954-1964. (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)

352. The Age of Jackson

Examines the influence of various political, social, economic religious and intellectual developments during the Age of Jackson (1815-1848) to the formation of modern American culture. (4 units)

353. The Coming of the Civil War

Examines the period from 1820 to 1860 focusing on the complex issues leading to the American Civil War. (4 units)

354. Civil War and Reconstruction

Background and causes of the Civil War and the problems of Reconstruction. (4 units) $\label{eq:construction}$

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

The United States homefront during World War II, focusing on social, economic and constitutional issues. (4 units)

359. The United States Since 1945

Major changes in the United States since the end of World War II. (4 units)

360. American History Through Film

Explores the cultural, social and economic issues that have shaped American history through the study and analysis of feature films. (Not a course in film studies or criticism.) Formerly a topic under HIST 395. (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. (4 units)

375. Museum Methods

Examination of the management of museums and archival collections, including accessioning, cataloging and storage of objects. Field trips and projects are required. (Also offered as ANTH 375. Students may not receive credit for both.) (4 units)

376. Exhibit Design

Examination of the theories and methods used in designing exhibits for museums, libraries, and historic houses, focusing on interpretation and exhibit creation. Some exhibits may be implemented in the Anthropology Museum. Field trips and completion of an exhibition brief are required. (Also offered as ANTH 376. Students may not receive credit for both.) Prerequisites: HIST 323 and 325 or consent of instructor. (4 units)

380. History of World Religions

Historical development of Judaism, Hinduism, Buddhism, Christianity and Islam. (4 units)

383. Classical Islamic Civilization

Introduction to the classical 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, and the rise of the Ottoman empire. (4 units)

384. Modern Middle East

Survey of the history of the Middle East since the eighteenth century, emphasizing the political and social history of Turkey, Iran, Iraq, Egypt, and the Levant (Lebanon, Palestine/Israel, Syria, Jordan). Prerequisite: HIST 383 or consent of instructor. (4 units)

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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)

394. Introduction to History

Introduction to historical thought and study through the use of sources, development of genres of history, general historiography and conventions of historical writing. May not be taken for credit by students who have received credit for HIST 490. (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. (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 four-teenth 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)

405. Nazi Germany and the Holocaust

The rise of Nazi Germany with a focus on the intertwined worlds of perpetrators and victims of the Holocaust. (4 units)

406. European Intellectual History

The intellectual history of Europe from the Renaissance to the present. (4 units)

409. Twentieth Century Europe

Political and cultural history of Europe from the rise of facism to the fall of communism. (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)

415. Studies in War and Society

Intensive study of war and its impact on society. Conflicts from different parts of the world are examined. May be repeated for credit as topics change. (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)

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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. (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)

475. The Old South

Examination of the antebellum South and the Southern Civil War experience. Formerly a topic under HIST 395. (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)

485. Arab-Israeli Conflict

Survey of the history of the Arab-Israeli conflict, concentrating on the evolution of political Zionism and Palestinian nationalism, the Palestine Mandate, and the wars and peace negotiations between Israel and neighboring Arab nations, and between Israel and the Palestinians since 1948. Formerly a topic under HIST 395. (4 units)

486. Modern Iran

Examines the political, economic, and social history of Iran from the fall of the Safavid Empire in 1722 to the present, with emphasis on the Pahlavi era and the Islamic Revolution of 1979. Formerly a topic under HIST 395. Prerequisite: HIST 383 or consent of instructor. (4 units)

487. Topics in Modern Middle Eastern History

Examines the modern political, economic, and social history of either Iraq, Turkey, Egypt, Syria or Saudi Arabia. May be repeated for credit as topics change. Prerequisite: HIST 383 or consent of instructor. (4 units)

491. Nationalism and Conflict in the Middle East

Investigates the origins and evolution of nationalism and national identity in the Middle East, and the relationship between nationalism and conflict in the region. Course utilizes a variety of materials that include explanatory theories of nationalism, secondary monographs, primary writings of Middle Eastern nationalists, and social biographical portraits of the lives and experiences of "ordinary" non-elite Middle Eastern men and women. Prerequisites: HIST 383 and 384 or consent of instructor. (4 units)

492. U. S. Media and the Middle East

Explores the evolution of U.S. news media coverage of events in the Middle East during the twentieth century and the complex links between news reporting, public opinion, and American foreign policy in the region. Formerly a topic under HIST 395. Prerequisites: HIST 383 and 384 or consent of instructor. (4 units)

493. Iran-U.S. Relations

Explores the evolution of the relationship between Iran and the United States from 1857 to the present. Readings will draw from primary and secondary sources, including documents, memoirs, biographies, and monographs emphasizing political and diplomatic encounters. Prerequisites: HIST 383 and 384 or consent of instructor. (4 units)

494. Proseminar in History

Historiographical seminar introducing advanced junior-level students to a specific topic or sub-field of history. Provides training and introduction to historical argumentation and criticism with an emphasis on secondary works and contrasting interpretations. Prerequisite: HIST 394 or consent of instructor. (4 units)

495. Politics of Oil

Survey of the history of the petroleum industry and its impact on global politics and economics, with an emphasis on the Middle East and United States foreign policy. Prerequisite: HIST 383 and 384 or consent of instructor. (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)

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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 102 and 103, and ACCT 211; 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)

594. Research Seminar in History

Senior-level seminar focused on the use of historical primary sources with the final goal of producing a substantial research paper. Involves seminar discussions and individual meetings with instructor. Prerequisites: HIST 394 and 494 or consent of instructor. (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. (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 438.

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HUMAN DEVELOPMENT

Department of Psychology

Social and Behavioral Sciences Building, Room 425 (909) 537-5570 http://psychology.csusb.edu/

Bachelor of Arts

Human Development

Child Development, Track I Child Development, Track II Adult Development and Aging Track Life-Span Development Track

FACULTY: Esteban Diaz (Emeritus), Chuck Hoffman, Todd Jennings, Laura Kamptner, Rosemary McCaslin, Jim Pierson, Jason Reimer, Robert Ricco, Sue Spitzer, Sharon Ward, Amanda Wilcox-Herzog (coordinator), Eugene Wong, 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 Infant/Toddler Lab and CSUSB Children's Center are integral components of this track, and are used as observation and practicum sites for students. Students selecting this track may also earn Child Development Master Teacher and Site Supervisor Permits (i.e., early childhood teaching and administrative credentials).

Child Development, Track II is designed for students who plan to pursue an elementary teaching credential. This track is comprised of two components: 1) general education requirements, and 2) child development coursework designed to prepare students with a solid foundation in child growth and development. The latter 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.

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 Gerontology (see Page 298 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. Guidance of Young Children: Laboratory (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)
- Four units chosen from: PSYC 358. Cognitive Development (4) PSYC 384. Personality and Social Development (4)
 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)

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Ele	ctives (8 units)	
1.	Fight units cho	osen from (at least four must be upper-division):
1.	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 388.	Language and Culture (4)
	ANTH 480.	Magic, Religion and Science (4)
	BIOL 306.	Human Heredity and Development (4)
	EELB 312.	
	EESL 536.	Family, Culture and Schooling (2) Crosscultural Teaching (4)
	ESPE 530.	Psychology and Education of Exceptional
	ESFE 550.	Individuals (4)
	ENC 220	
	ENG 320.	Children's Literature (4)
	HD 282A.	Early Childhood Curriculum and Programs (4)
	HD 282B.	Early Childhood Curriculum and Programs:
		Laboratory (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)
	PSYC 303.	Parenting and Family Relations (4)
	PSYC 305.	Psycholinguistics (4)
	PSYC 311.	Introduction to Experimental Psychology (6)
	PSYC 328.	Psychology of Adolescent Development (4)
	PSYC 329.	Psychology of 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

Requirements (180 units)

Total units required for graduation: 180

BASIC PROGRAM (180 units)

- A. Language Arts (28 units)
- B. Humanities and the Arts (16 units)
- C. Visual and Performing Arts (13 units)
- D. Mathematics and Sciences (38 units)
- E. Social and Behavioral Sciences (28 units)F. Lifelong Understanding, Physical Education
- and Health (10 units)
- G. Multicultural/Gender Category
- H. Child Development Core (47 units)

PROGRAM TOTAL: 180 units

All students choosing this track should give special attention to the following points before they begin their course work:

- Since this program contains a variety of choices, students should seek advisement as early as possible;
- By completing this track, students also can fulfill the general education requirements of the university;
- A course can be counted only once for credit within this track, except for courses which meet both capstone and multicultural requirements;
- With advisement and a careful selection of courses, students can also complete a second major in certain fields;
- 5. Students who plan to seek a multiple subject teaching credential at CSUSB should achieve a minimum grade point average of at least 2.7.

Requirements for the B.A. in Human Development - Child Development, Track II

- A. Language Arts Breadth Area (28 units)
- 1. Written Communication (G.E.)
- ENG 101. Freshman Composition (4)
- 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. No unit credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.
- 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
 - 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 301A. Analysis of Poetry (4)
- ENG 302A. Analysis of Drama (4)

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ENG 303A. Analysis of Prose Fiction (4) ENG 304A. Analysis of Nonfiction Prose (4) TA 302A. Analysis of Drama (4) 7. Children's Literature Four units chosen from: ENG 320. Children's Literature (4) ENG 327. Literature for Adolescents and Young Adults (4) B. Humanities and the Arts Breadth Area (16 units) Critical Thinking (G.E.) 1 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) Critical Thinking Through Symbolic Logic (4) PHIL 200. 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) Introduction to Philosophy of Religion (4) PHIL 192. PHIL 193. Introduction to Eastern Philosophy (4) PHIL 194. Introduction to Knowledge and Reality (4) 3. Foreign Language (G.E.) Four units chosen from: ARAB 150. Intermediate Arabic III (4) ARAB 214. Conversation in Arabic (4) FLAN 150. Intermediate Language Study (4) FREN 150. Intermediate French (4) FREN 200. Culture and Communication (4) Conversation and Composition I (4) FREN 201. Conversation and Composition II (4) FREN 202. GER 150. Intermediate German (4) GER 212. Composition (4) GER 214. Conversation (4) Introduction to Literary Texts (4) GER 216. JAPN 150. Intermediate Japanese (4) Intermediate Mandarin (4) MAND 150. SPAN 150. Intermediate Spanish (4) SPAN 155. Intermediate Spanish for Heritage/Native Speakers (4) SPAN 212. Composition (4) SPAN 213. Composition for Heritage/Native Speakers (4) SPAN 214. Conversation (4) Integrative Capstone in the Humanities (G.E.) 4. Four units chosen from: HUM 319. Myth, Metaphor and Symbol (4) HUM 325. Perspectives on Gender (meets the requirement in category G1) (4) Arts and Ideas (4) HUM 330. HUM 335. The Origin and Contemporary Role of Latino Culture (meets the requirement in category G1) (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 G1) (4) HUM 375. The World of Islam (4) African Heritage in the Arts (meets the HUM 370. requirement in category G1) (4) HUM 380. Comparative Studies in the Arts: East and West (meets the requirement in category G1) (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. Visual and Performing Arts (13 units) 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. Visual Arts Activity Three units chosen from ART 395. Art in the Classroom (3) ART 400. Teaching Art in the Elementary Classroom (4) Music Activity 3. MUS 531. Musical Development for the Elementary Teacher (3) Theatre Activity 4. Three units chosen from: TA 481. Creative Drama in the Classroom (3) TA 484. Readers Theatre in the Classroom (3) TA 486. Puppetry in the Classroom (3) D. Mathematics and Sciences (38 units) Ideas of Mathematics (G.E.) 1 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) Fundamental Concepts of Mathematics for Educators (12 units) 2. MATH 301A. Fundamental Concepts of Arithmetic and Geometry (4) MATH 301B. Transition from Concrete to Abstract in Algebra and Geometry (4) MATH 301C. Further Developments in Algebra and Geometry (4) Life Science (G.E.) 3. BIOL 100. Topics in Biology (5) 4 Physical Science (10 units) (G.E.) Chemistry in the Modern World (5) CHEM 100. PHYS 100. Physics in the Modern World (5) 5. Earth and Space Science Five units chosen from: GEOG 311. The Dynamic Earth (5) GEOL 309. Earth: The Blue Planet (5) A Cosmic Perspective of Earth (5) PHYS 311. 6. Technology (G.E.) CSCI 129. Science, Computing and Society (2) E. Social and Behavioral Sciences Breadth Area (28 units) American Civilization (G.E.) 1. Four units chosen from: HIST 146. American Civilization (4) United States History to 1877 (4) HIST 200. HIST 201. United States History, 1877 to the Present (4) American Government (G.E.) 2. American Government (4) PSCI 203. World Civilizations I (G.E.) 3 Four units chosen from: World Civilizations I, the Rise of Civilization (4) ANTH 140. HIST 140. World Civilizations I, the Rise of Civilization (4) World Civilizations II (G.E.) 4 HIST 142. World Civilizations II, the Civilizations of the East

and West (4)

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5. California His	
HIST 270.	History of California (4)
 Geography GEOG 300. 	Geography in the Elementary and Middle School
7. Integrative Ca	Classroom (4) apstone in the Social and Behavioral
Sciences (G.I	
Four units ch	
SSCI 300.	
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 G1) (4)
SSCI 320.	Understanding Capitalism (4)
SSCI 321.	Urbanization and the Urban Environment (4)
SSCI 325.	Perspectives on Gender (meets the requirement
0001040	in category G1) (4)
SSCI 343.	Understanding Socialism (4) Religious Expression in America (4)
SSCI 345. SSCI 350.	Roots of Modern Racism in America (4) (meets
0001 000.	the requirement in Category G1)
	lents may receive credit for only one of the
	wing courses:
HU	M 325. Perspectives on Gender
	CI 325. Perspectives on Gender
	CI 325. Perspectives on Gender derstanding, Physical Education
and Health (
1. Physical Edu	
Two units cho	
KINE 101.	
KINE 114. KINE 120.	Physical Fitness and Conditioning Activities (2)
KINE 120. KINE 121.	Combative and Martial Arts Activities (2) 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)
 Physical Fitne KINE 205. 	Ess (G.E.) Foundations for Lifetime Fitness and
MINE 205.	Wellness (2)
3. Movement SI	
Four units ch	osen from:
DAN 481.	Creative Dance in the Classroom (4)
KINE 352.	Movement for Children (4)
 Health HSCI 100. 	Concepts in Health (2)
	/Gender Category (G.E.)
	st take one upper-division course designated as
meeting this requ	irement, chosen from groups 1 or 2 below:
	te Integrative capstone course in B4 or E7.
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 375.	The World of Islam (4)
HUM 380.	Comparative Studies in the Arts: East and
	West (4) Perspectives on Conder (4)
NSCI 325. SSCI 316.	Perspectives on Gender (4) Race and Racism (4)
SSCI 310.	Perspectives on Gender (4)
SSCI 350.	Roots of Modern Racism in America (4)
	n general education elective courses that satisfy the

2.	Upper-division general education elective courses that satisfy the)
	Multicultural/Gender requirement:	

ANTH 325. Human Biological Variation and the Concept of Race (4)

AC	B.A. IN HUMAN DEVELOPMENT - ADULT DEVELOPMENT AND AGING TRACK Requirements (85 units)			
12.	PSYC 358. PSYC 400.	Cognitive Development (4) Child Assessment (5)		
11.	PSYC 320.	Psychology of Middle Childhood (4)		
	SOC 340.	Sociology of the Family (4)		
10.	Four units cho PSYC 303.	sen from: Parenting and Family Relations (4)		
9. 10	HD 324.	Developmental Psychobiology (4)		
8.	HD 303.	Theories of Play (4)		
	HD 282B.	Early Childhood Curriculum Laboratory (2)		
-	HD 282A.	Early Childhood Curriculum (4)		
5.	HD 281B.	Guidance of Young Children Laboratory (2)		
4.	HD 281A.	Guidance of Young Children (4)		
	PSYC 350.	Development of Exceptional Children (4)		
3.	Exceptional CI			
_		Adolescence (2)		
	HD 247.	Observation and Methods in Child Development:		
		Middle Childhood (2)		
	HD 246.	Observation and Methods in Child Development:		
	110 240.	Early Childhood (2)		
	HD 245.	Observation and Methods in Child Development:		
۷.		oncurrently with HD 240, two units chosen from:		
2.		and Methods in Child Development		
••	HD 240.	Introduction to Child Development (4)		
1.	Child Develop			
н.		oment Core (47 units)		
	TA 463.	Asian Theatre (4)		
	TA 462.	African-American Theatre and Drama (4)		
	PHIL 367.	Gender and Philosophy (4)		
	PHIL 364.	Philosophy of Race and Gender (4)		
	171000.	Societies (4)		
	PA 305.	Organizations in Multicultural and Diverse		
	MUS 350.	Music of World Cultures (4)		
	MUS 308.	Women in Music (4)		
	ENG 314. HUM 460.	American Indian Literature (4) Cultural Studies (4)		
	ENG 314.	Discrimination (4)		
	ECON 352.	Political Economy of Poverty and		
	CJUS 451.	Women and Crime (4)		
	COMM 401.	Gender, Race and Media (4)		
	COMM 304.	Intercultural Communication (4)		
		Perspective (4)		
	ANTH 333.	Sex and Gender in Cross-Cultural		

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:

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	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)	
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6. HSCI 423. Health and Wellness of Older Adults (4)

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7. Four units cho	
PSYC 303.	Parenting and Family Relations (4)
SOC 340.	Sociology of the Family (4)
8. PSYC 329.	Psychology of Adulthood and Aging (4)
 Four units choose PSYC 390. 	
SOC 354.	Abnormal Psychology (4) Deviant Behavior (4)
10. SOC 330.	Social Gerontology (4)
11. Four units cho	
HD 372.	Psychology of Death and Dying (4)
HSCI 550.	The Health Aspects of Death and Dying (4)
12. Four units cho	
HD 540.	Work, Retirement and Leisure (4)
SOC 368.	Sociology of Work (4)
Applications:	
	four units chosen from:
EVOC 504.	Principles of Adult Education (4)
HSCI 271.	Introduction to Community Health (4)
	only one of the following two courses:
PSCI 380	
PA 380. PSYC 387.	Introduction to Public Administration (4)
SOC 418.	Community Psychology (4) Sociology of Social Welfare (4)
SOC 418.	Social Casework (4)
Statistics/Methodo	
	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	5)
1. Twelve units of	chosen from:
ANTH 326.	Human Origins (4)
ANTH 327.	Drimete Evolution and Ecology (4)
	Primate Evolution and Ecology (4)
ANTH 331.	Anthropology of Human Development (4)
ANTH 331. ANTH 332.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4)
ANTH 331.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural
ANTH 331. ANTH 332. ANTH 333.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 388.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 480.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 480. ART 415.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2)
ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 460. ART 415. BIOL 306.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4)
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ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 422. ECON 352. EVOC 504.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 422. ECON 352. EVOC 504. HD 280.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5)
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ANTH 331. ANTH 332. ANTH 333. ANTH 388. ANTH 466. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 422. ECON 352. EVOC 504. HD 280.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5) Psychology of Death and Dying (4) Intergenerational Aspects of Human
ANTH 331. ANTH 332. ANTH 333. ANTH 333. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 422. ECON 352. EVOC 504. HD 280. HD 372. HD 520.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5) Psychology of Death and Dying (4) Intergenerational Aspects of Human Development (4)
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ANTH 331. ANTH 332. ANTH 333. ANTH 333. ANTH 480. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 422. ECON 352. EVOC 504. HD 280. HD 372. HD 520. HD 540. HD 582. HD 595.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5) Psychology of Death and Dying (4) Intergenerational Aspects of Human Development (4) Work, Retirement and Leisure (4) Special Topics in Human Development (1-5) Independent Study (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 333. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 422. ECON 352. EVOC 504. HD 280. HD 372. HD 520. HD 540. HD 582. HD 595. HIST 357.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5) Psychology of Death and Dying (4) Intergenerational Aspects of Human Development (4) Work, Retirement and Leisure (4) Special Topics in Human Development (1-5) Independent Study (4) The United States, 1917-1945 (4)
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ANTH 331. ANTH 332. ANTH 333. ANTH 333. ANTH 388. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 402. ECON 352. EVOC 504. HD 372. HD 520. HD 520. HD 540. HD 582. HD 595. HIST 357. HIST 359. HSCI 271.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5) Psychology of Death and Dying (4) Intergenerational Aspects of Human Development (4) Work, Retirement and Leisure (4) Special Topics in Human Development (1-5) Independent Study (4) The United States, 1917-1945 (4) The United States Since 1945 (4) Introduction to Community Health (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 333. ANTH 388. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 402. ECON 352. EVOC 504. HD 372. HD 520. HD 520. HD 540. HD 520. HD 540. HD 582. HD 595. HIST 357. HIST 359. HSCI 271. HSCI 310.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5) Psychology of Death and Dying (4) Intergenerational Aspects of Human Development (4) Work, Retirement and Leisure (4) Special Topics in Human Development (1-5) Independent Study (4) The United States, 1917-1945 (4) The United States Since 1945 (4) Introduction to Community Health (4) Health and Human Sexuality (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 333. ANTH 388. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 403. COMM 402. ECON 352. EVOC 504. HD 280. HD 372. HD 520. HD 520. HD 540. HD 520. HD 540. HD 582. HD 595. HIST 357. HIST 359. HSCI 271. HSCI 310. HSCI 342.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5) Psychology of Death and Dying (4) Intergenerational Aspects of Human Development (4) Work, Retirement and Leisure (4) Special Topics in Human Development (1-5) Independent Study (4) The United States, 1917-1945 (4) The United States Since 1945 (4) Introduction to Community Health (4) Health and Human Sexuality (4) Nutrition for Your Health (4)
ANTH 331. ANTH 332. ANTH 333. ANTH 333. ANTH 388. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 402. ECON 352. EVOC 504. HD 372. HD 520. HD 520. HD 540. HD 520. HD 540. HD 582. HD 595. HIST 357. HIST 359. HSCI 271. HSCI 310.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5) Psychology of Death and Dying (4) Intergenerational Aspects of Human Development (4) Work, Retirement and Leisure (4) Special Topics in Human Development (1-5) Independent Study (4) The United States, 1917-1945 (4) The United States Since 1945 (4) Introduction to Community Health (4) Health and Human Sexuality (4)
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ANTH 331. ANTH 332. ANTH 333. ANTH 333. ANTH 388. ANTH 466. ANTH 480. ART 415. BIOL 306. BIOL 314. CJUS 462. COMM 304. COMM 403. COMM 403. COMM 403. COMM 402. ECON 352. EVOC 504. HD 280. HD 372. HD 520. HD 540. HD 520. HD 540. HD 582. HD 595. HIST 357. HIST 359. HSCI 271. HSCI 310. HSCI 314. HSCI 342. HSCI 364. HSCI 374.	Anthropology of Human Development (4) Cross-Cultural Perspectives on Aging (4) Sex and Gender in Cross-Cultural Perspective (4) Language and Culture (4) Anthropology of Health, Illness and Healing (4) Magic, Religion and Science (4) Senior Seminar: Art and Society (2) Human Heredity and Development (4) Biology of Human Sexuality (4) Family Violence (4) Intercultural Communication (4) Interpersonal Relations (4) Communication in Conflict (4) Economics of Poverty and Discrimination (4) Principles of Adult Education (4) Early Childhood Development (5) Psychology of Death and Dying (4) Intergenerational Aspects of Human Development (4) Work, Retirement and Leisure (4) Special Topics in Human Development (1-5) Independent Study (4) The United States Since 1945 (4) Introduction to Community Health (4) Health and Human Sexuality (4) Nutrition for Your Health (4) Drug and Alcohol Use and Abuse (4) Basic Auditory and Hearing Problems (4)

Health Behavior (4)
Organization and Management of Long-Term
Care Facilities (4)
The Health Aspects of Death and Dying (4)
Foundations for Lifetime Fitness and
Wellness (2)
Introduction to Kinesiology: Adapted Physical
Education (2)
Recreation Programming (4)
Movement Skill Assessment for Individuals with
Disabilities (4)
Topics in Adapted Physical Education (2)
Exercise Prescription (5)
only one of the following two courses:
. Introduction to Public Administration (4)
Introduction to Public Administration (4)
Ethics (4)
Contemporary Ethical Issues (4)
Philosophy of Religion (4)
Infant and Toddler Development (4)
Psychology of Human Sexuality (4)
Parenting and Family Relations (4)
Introduction to Experimental Psychology (6)
Communication Processes (4)
Health Psychology (4)
Psychology of Middle Childhood (4)
Psychology of Adolescent Development (4)
The Psychology of Women (4)
Drugs and Behavior (4)
Prejudice, Race, and Racism (4)
Cross-Cultural Psychology (4)
Cognitive Development (4)
Biological Psychology (4)
Personality and Social Development (4)
Community Psychology (4)
Abnormal Psychology (4)
Experimental Psychology: Developmental (6)
Social Research I (4)
Socialization (4)
Sociology of the Family (4)
Marriage and Family Among Blacks (4)
The Chicano Family (4)
Deviant Behavior (4)
Medical Sociology (4)
Sociology of Work (4)
Sociology of Religion (4)
Sociology of Race and Ethnicity (4)
Sociology of Social Welfare (4)
Community Organization (4)
Group Dynamics (4)
Sociology of Gender (4)
Social Casework (4)
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.

С

S U S B

-	AN DEVELOPMENT - LIFE-SPAN
DEVELOPM	
Requirements	quired for graduation: 180
	s for the B.A. in Human
	- Life-Span Development Track:
Lower-division re	quirements (17 units)
1. BIOL 100.	Topics in Biology (5)
 2. PSYC 100. 3. PSYC 201. 	Introduction to Psychology (4) Developmental Psychology (4)
4. SOC 100.	The Study of Society (4)
Upper-division re-	quirements (32 units)
1. ANTH 331.	Anthropology of Human Development (4)
 2. HD 324. 3. HD 480. 	Developmental Psychobiology (4) Advanced Human Development (4)
4. HD 575.	Internship (4)
5. Four units ch	
PSYC 303. SOC 340.	Parenting and Family Relations (4) Sociology of the Family (4)
6. PSYC 358.	Cognitive Development (4)
 PSYC 384. Four units ch 	Personality and Social Development (4)
ANTH 327.	Primate Evolution and Ecology (4)
HD 302.	History of Childhood (4)
HD 305. HD 520.	Multicultural Child Development (4) Intergenerational Aspects of Human
110 520.	Development (4)
SOC 339.	Socialization (4)
Developmental S	o ()
 A minimum o HD 280. 	f 12 units chosen from: Early Childhood Development (5)
PSYC 270.	Infant and Toddler Development (4)
PSYC 320.	Psychology of Middle Childhood (4)
PSYC 328. May choose (Psychology of Adolescent Development (4) only one of the following two courses:
PSYC 32	
SOC 330	
Statistics/Method	
 A minimum o PSYC 210. 	f four units chosen from: Psychological Statistics (5)
SSCI 215.	Statistics for the Social Sciences (4)
SOC 307.	Social Research I (5)
Electives (20 unit	
1. Twenty units be upper-divi	chosen from (of which at least sixteen must
ANTH 326.	Human Origins (4)
ANTH 327.	Primate Evolution and Ecology (4)
ANTH 330. ANTH 333.	Cross-Cultural Child-Rearing Practices (4) Sex and Gender in Cross-Cultural
ANTTI 355.	Perspective (4)
ANTH 388.	Language and Culture (4)
ANTH 480. BIOL 306.	Magic, Religion and Science (4) Human Heredity and Development (4)
BIOL 314.	Biology of Human Sexuality (4)
EELB 312.	Family, Culture and Schooling (2)
May choose taken:	one of the following two courses, if not previousl
HD 280.	Early Childhood Development (5)
PSYC 28	
HD 281A.	Guidance of Young Children (4)

HD 281B.	Guidance of `	Young Children:	Laboratory	(2)
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	HD 282A.	Early Childhood Curriculum and Programs (4)
	HD 282B.	Early Childhood Curriculum and Programs: Laboratory (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
	110 320.	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)
	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 390.	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 434.	Group Dynamics (4)
	SOC 430. SOC 444.	Sociology of Gender (4)
	SOC 444.	Social Casework (4)
		as electives may not have been used to satisfy
unr		uirements previously in the major.
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**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.

# CSUSB 2006-2007

### Lower Division

### 240. Introduction to Child Development

Comprehensive introduction to child development from conception through adolescence. Emphasis is on physical, cognitive, social, emotional and language development. (Also offered as PSYC 240. Students may not receive credit for both.) (4 units)

### 245. Observation and Methods in Child Development: Early Childhood

Introduction to observational methodologies and techniques used in the study of early childhood behavior. Students will observe, record, analyze and interpret early childhood behavior as they relate to developmental principles, theories and current research. Prerequisite or corequisite: HD 240. (2 units)

### 246. Observation and Methods in Child Development: Middle Childhood

Introduction to observational methodologies and techniques used in the study of middle childhood behavior. Students will observe, record, analyze and interpret middle childhood behavior as they relate to developmental principles, theories and current research. Prerequisite or corequisite: HD 240. (2 units)

### 247. Observation and Methods in Child Development: Adolescence

Introduction to observational methodologies and techniques used in the study of adolescent behavior. Students will observe, record, analyze and interpret adolescent behavior as they relate to developmental principles, theories and current research. Prerequisite or corequisite: HD 240. (2 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 PSYC 280. Students may not receive credit for both.) Pre-requisite: 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. This course is only for students majoring in Human Development: Child Development Track I. 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. This course is only for students majoring in Human Development: Child Development Track I. Six hours laboratory. Prerequisite or corequisite: HD 281A. Prerequisites: HD 280 or PSYC 280, and current TB test. (2 units)
- C. Child development theories and their implications for communicating and interacting with young children, for guiding child behavior, and for designing early childhood settings. This course is only for students majoring in Human Development: Child Development Track II. Prerequisite: HD 280 or PSYC 280. (4 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, concurrent enrollment in HD 282A and current TB test. (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. (3 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.) Pre-requisite: 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)

### 214 / Human Development

### 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)

### 530. Issues in Early Childhood Education

Current theories, research and methodology in early childhood education with an emphasis on practice with children and families. Formerly a topic under HD 582D. Prerequisite: upper-division or graduate status. (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 upperdivision 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)

### 576. International Experience

Written research project based on traveling or living in a Spanish- or Portuguese-speaking country. Research for the project will be completed in the country of choice. Approval of written proposal for project will be submitted on a standard application form filed in advance of the quarter in which the project is to be completed. Prerequisite: junior standing or consent of instructor. (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. (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. (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. (2 to 4 units)

Graduate level courses can be found on Page 438.

### Department of Sociology

Social and Behavioral Sciences Building, Room 327 (909) 537-5541 http://csbs.csusb.edu/sociology/

### **Bachelor of Arts**

Human Services

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)
- PSYC 100. Introduction to Psychology (4) 2.
- 3. SOC 100. The Study of Society (4)

Human Development and Behavior (20 units)

- PSYC 201. Developmental Psychology (4) 1
- PSYC 390. Abnormal Psychology (4) 2.
- 3. SOC 340. Sociology of the Family (4)
- SOC 354. Deviant Behavior (4) 4.
- Four units chosen from: 5. 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 271. Introduction to Community Health (4)
- Community Psychology (4) PSYC 387.
- 2. SOC 434. Community Organization (4)

Human Services Practice (16 units)

1. Sixteen units chosen from:

Sixteen units chosen nom.		
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 (4)	
HSCI 489.	Pre-Field Experience (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 498. Undergraduate Research Methodology in Health
  - Science (5) 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 495A. Field Experience (5)
  - HSCI 495B. Field Experience (6)
  - B. PSYC 575. Internship in Psychology (4) for a total of (8)
  - C. SOC 575. Internship in Sociology (4) for a total of (8)

### 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:

- At least one-half of the course work required by the major is 1. completed at this university;
- At least a 3.5 grade point average in the major, both at this 2 university and overall;
- An overall undergraduate grade point average of 3.0 ("B") or 3. 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 (909) 537-5800 or 537-5869 http://cal.csusb.edu/

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=C1) (4 units)

### 197. Assessment Preparation I in Liberal Studies

Introduction to the Liberal Studies major and the requirements leading to a multiple subjects teaching credential. Procedures and preparation for the senior assessment. Graded credit/no credit. (1 unit)

### **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**=F1) (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. Also offered as ENG 312. Students may not receive credit for both. 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=C5) (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**=C5, G1) (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**=C5) (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**=C5, G1) (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**=C5) (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**=C5) (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**=C5, G1) (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**=C5, G1) (4 units)

### 375. The World of Islam

Exploration of Islam as a religion, a philosophy and value system, indeed, as a way of life in a variety of cultures, totalling more than one billion people around the globe, including the arts and literature as well as theological, philosophical, and social perspectives. Prerequisite: junior or senior standing. (**GE**=C5, G1) (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**=C5, G1) (4 units)

### 385. A Cultural History of Fashion

The history of clothing and its relation to other arts as a form of selfexpression within shifting sociocultural circumstances. Prerequisite: junior or senior standing. (GE=C5) (4 units)

### 397. Assessment Preparation II in Liberal Studies

Continuation of assessment planning in Liberal Studies. Includes initial assessment of General Education requirements and selection of a concentration and its integration into the program of study. Review of progress on portfolios. Graded credit/no credit. Prerequisites: HUM 197 and completion of at least 90 units in the B.A. in Liberal Studies. (1 unit)

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#### 450. Aspects of Chicana/o Culture

An exploration of the cultural, political and social values of the Chicana/o community as reflected in Chicana/o literature, fine and public arts, music, teatro and film. Formerly IS 460. (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=C5) (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. (1 unit)

#### 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. (1 to 5 units)

#### 576. International Experience

Written research project based on traveling or living in a Spanish- or Portuguese-speaking country. Research for the project will be completed in the country of choice. Approval of a written proposal for the project will be submitted on a standard application form filed in advance of the quarter in which the project is to be completed. Graded credit/no credit. Prerequisite: junior standing or consent of instructor. (4 units)

#### 595. Independent Study in Humanities

Advanced study in the Humanities. May be repeated for credit. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, including 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 total of eight units may be applied toward graduation. (1 to 4 units)

#### 597. Senior Assessment in Liberal Studies

Liberal Studies students will complete and submit their portfolios for evaluation. A reflective essay on required aspects of subject matter preparation is a required component and is used to introduce the portfolio. Required for graduation. Graded credit/no credit. Prerequisites: HUM 397 and completion of at least 135 units in the B.A. in Liberal Studies. (2 units)

#### Graduate level courses can be found on Page 439.

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# **INFORMATION MANAGEMENT**

# Department of Information and

**Decision Sciences** 

Jack Brown Hall, Room 460 (909) 537-5723 http://ids.csusb.edu/

**FACULTY:** Sunny Baker, Anthony Coulson, Frank Lin, Tapie Rohm, Conrad Shayo, Walt Stewart (Chair), Bob Wilson, Jake Zhu

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 69. The Master of Business Administration can be found on Page 343. 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

#### 102. Introduction to Information Technology

Effects of information technology on society presenting methods, practices and principles that develop information technology and information systems. No computer background required. May not be taken for credit by students who have received credit for INFO 101. (2 units)

#### **103.** Using Information Technology Applications

Use of information technology tools, such as presentation, database, spreadsheet and word processing software. One hour lecture and two hours activity laboratory. No previous computer background required. Materials fee required. May not be taken for credit by students who have received credit for INFO 101. (2 units)

#### 150. Web Publishing

Basic web page development and web site planning. Topics include web site planning, web page design and HTML. Students will demonstrate proficiency in web design tools, skills and practices. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

#### 160. Computer Graphics for the Internet

Introduction to computer graphic design and tools for web page development. Topics include digital photography, graphic design, animation and digital sound for the Internet. Students will demonstrate proficiency in graphic design tools, skills and practices geared to digital and world wide web publishing. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

#### 274. Data Base Management and Policies

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. Information classification, management and disposal practices are explored. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

#### 275. Information Networking and Security

Data communications field for the business student including 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. Security concepts including policies, access control and network assessment are covered. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

#### 276. Systems Analysis and Design

Traditional systems analysis and design methods and tools, including the role of the systems analyst, feasibility studies, modeling technique systems design, reporting and documentation, documentation standards, certification testing and system accreditation practices, and implementation strategies. Students will develop conceptual, analytical and practical skills in modeling organizational processes. Prerequisites: INFO 102 and 103 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. Prerequisites: INFO 102 and 103 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. Prerequisites: INFO 102 and 103 or consent of instructor. (4 units)

#### 283. Business Systems II

An advanced study of information systems development in an objectoriented environment. Object-oriented concepts are applied to construction of computer solutions for business information systems. Knowledge of computer programming is essential. Prerequisite: INFO 282 or consent of instructor. (4 units)

#### Upper Division

Enrollment in upper division courses restricted to students who have met all prerequisites and have completed at least 90 quarter units (junior class level). Students who do not meet these requirements will be disenrolled.

#### 309. Information Management

Application of computer systems in organizations. Topics include information systems planning, information forecasting, information technology, information processing, information assurance and security, risk assessment, allocating resources and legal concepts. Prerequisites: INFO 102 and 103. (4 units)

#### 372. Information Technology

Basic computer hardware, software, maintenance and training technologies including hardware components, operating system functions, information systems maintenance strategies for the organization, and end-user training options. Security practices such as network access, data disposal, introductory forensics and facilities planning are also explored. Hands-on experience with different computer hardware, operating systems and software utilities. Formerly INFO 472. Prerequisite: INFO 309 or consent of instructor. (4 units)

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# 378. Information Problem Solving and Risk Management

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, risk management, incident handling, threat assessment, allocating resources, and implementation strategies. Formerly INFO 478. Prerequisite: INFO 309 or consent of instructor. (4 units)

# 474. Advanced Data Base Management and Information Assurance

Advanced computer data base concepts and skills including: data modeling, Structured Query Language (SQL), and client-server applications. Also covers Data Base System Administration issues: data certification/classification, life cycle, access control, and legal requirements. Students will create applications using an advanced data base program package. Prerequisites: INFO 274 and 309, or consent of instructor. (4 units)

# 475. Advanced Information Networking and Security

Advanced computer networking and their application in organizations. Students will learn current computer network strategies and create advanced network applications. Security emphasis includes threats and countermeasures, wireless security, security requirements, access control practices. Prerequisites: INFO 275 and 309, or consent of instructor. (4 units)

# 476. Advanced Systems Analysis and Design

Advanced analysis, design and implementation of information systems for organizations, including data, process and network modeling techniques; structured, information engineering and object-oriented approaches to systems design; systems testing methods; documentation standards, certification testing and system accreditation practices; copyright and legal issues; implementation strategies and project management. Prerequisites: INFO 276 and 309, or consent of instructor. (4 units)

# 477. Decision Support Systems

Formal information systems that support organizational decision making, including 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 covered are the types of agreements that can be made and approvals that can be granted as part of certification and accreditation process within an agency. INFO 309 or consent of instructor. (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 280 and 309, or consent of instructor. (4 units)

# 485. E-Business

Advanced technical and business skills for designing, developing and managing e-business applications. Topics include enterprise systems, business to business exchanges, and implementation strategies. Prerequisites: INFO 150 and 309, or consent of instructor. (4 units)

# 490. Information Systems Planning and Policy

Advanced study of information systems planning and policy formation for top management. Covers strategic use of information technology in organizations; the theory, methods and practices of enterprise systems planning; and design and implementation of information systems policy. Policy issues surrounding project management, information classification, IT audit, and legal issues related to privacy and security will also be covered. Prerequisites: completion of all other courses in chosen concentration program. (4 units)

# 511. Information Assurance and Security

Advanced study of information assurance and security including theory, methods, and practices used by federal and state agencies, and private sector best practices. Topics include: threat assessment, evidence collection, forensics, countermeasures, practices and law. Students will work in a simulated environment and will investigate crimes and experience various security scenarios. Data center practices for the purpose of audit, control and accreditation are explored. Formerly a topic under INFO 590. Prerequisites: INFO 309, and either 475 or 648; or consent of instructor. (4 units)

# 575. Internship in Information Management

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (2 or 4 units)

# **INTERDISCIPLINARY STUDIES**

The university offers a limited number of courses outside of its department and college structure.

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.

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# **KINESIOLOGY**

# **Department of Kinesiology**

Health and Physical Education Building, Room 120 (909) 537-5349 http://kine.csusb.edu/

#### **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 380.)

#### Minor

Kinesiology Recreation

#### **Certificate Programs**

Coaching Fitness Management Recreation Leadership

FACULTY: Sarah Boeh, Robert Carlson, Jerry Freischlag (Emeritus), Chris Grenfell, Bryan Haddock, Steve Kinzey, Carolyn Martin (Emeritus), Aaron Moffett, Greg Price, Reg Price (Emeritus), Terry Rizzo (Chair), Shannon Siegel, Cliff Singh, Hosung So, Traci Statler, Linda Wilkin

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;

- Select a career in nonteaching fields related to physical activity, such as commercial physical fitness, sport business, research and development, or commercial leisure services;
- 3. Pursue graduate work in kinesiology or related disciplines.

### B.S. IN KINESIOLOGY - EXERCISE SCIENCE Requirements (98-99 units)

# Total Requirements for Graduation (180)

# Requirements for the B.S. in Kinesiology - Exercise Science Concentration (98-99 units):

Lower-division requirements (30 units)

1.	BIOL 223.	Human Physiology and Anatomy I (	5)
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- 2. BIOL 224. Human Physiology and Anatomy II (5)
- 3. KINE 200. First Aid (2)
- 4. 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. KINE 210A. Introduction to Kinesiology (2)
- 5. KINE 240. Exercise Science Software (2)

6. KINE 254. Field Experience (2) 7. KINE 270. Introduction to Fitness and Testing (2) 8. Five units chosen from: PHYS 100. Physics in the Modern World (5) PHYS 121. Basic Concepts of Physics I (5) General Physics I (5) PHYS 221. Upper-division requirements (56 units) 1. KINE 305. Prevention and Treatment of Sports Injuries (4) KINE 310. History and Philosophy of Physical Activity (4) 2. Affective / Social Domain 3. Four units chosen from: KINE 323. Sociology of Physical Activity (4) KINE 324. Psychology of Physical Activity (4) 4 KINE 325. Motor Development Across the Lifespan (2) Physical Activity and Aging (2) 5. KINF 360. Measurement and Evaluation in Kinesiology (4) 6. KINE 370. 7. KINE 382. Nutrition for Health, Fitness and Sports (4) KINE 410. Motor Control and Skill Learning (4) 8. KINE 471. Exercise Science Program Management (4) g 10. KINE 480. Biomechanics (5) 11. KINE 481. Exercise Physiology (5) Exercise Prescription (4) 12. KINE 483. 13. KINE 485. EKG Interpretation (2) 14. KINE 486. Instrumentation in Exercise Science (2) 15. KINE 488. Legal Issues in Exercise Science (2) 16. KINE 490. Senior Seminar in Kinesiology (2) 17. KINE 493. Internship (2)

Electives (11-12 units)

 Eleven to 12 units chosen from either lower- or upper-division courses selected with the approval of the Kinesiology Department.

# **B.S. IN KINESIOLOGY - PEDAGOGY**

#### **Requirements (98 units)**

**Total Requirements for Graduation (180)** 

# Requirements for the B.S. in Kinesiology - Pedagogy Concentration (98 units):

Lower-division requirements (36 units)

- 1. BIOL 223. Human Physiology and Anatomy I (5) BIOL 224. Human Physiology and Anatomy II (5) 2. KINE 210A. Introduction to Kinesiology (2) 3. KINE 210B. Introduction to Kinesiology: Adapted Physical 4 Education (2) KINE 254. 5. Field Experience (2) Professional Activity Preparation in Individual KINE 261C. 6. and Dual Sports/Movement Forms: Dance (2) 7. KINE 261F. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics (2) KINE 261H. Professional Activity Preparation in Individual 8 and Dual Sports/Movement Forms: Swimming (2) 9 Individual and Dual Sports/Movement Forms Two units chosen from: KINE 261B. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton (2) KINE 261G. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Racquetball (2)
  - KINE 261J. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Tennis (2)

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10.	Individual and Dual Sports/Movements Forms Two units chosen from:			
	KINE 261E.	Professional Activity Preparation in Individual		
		and Dual Sports/Movement Forms: Golf (2)		
	KINE 261K.	Professional Activity Preparation in Individual		
		and Dual Sports/Movement Forms: Track and		
		Field (2)		
	KINE 261L.	Professional Activity Preparation in Individual		
		and Dual Sports/Movement Forms: Aerobic		
		Exercise (2)		
	KINE 261M.	Professional Activity Preparation in Individual		
		and Dual Sports/Movement Forms: Martial		
		Arts (2)		
	KINE 261N.	Professional Activity Preparation in Individual		
		and Dual Sports/Movement Forms: Strength and		
		Conditioning (2)		
	KINE 2610.	Professional Activity Preparation in Individual		
		and Dual Sports/Movement Forms: Yoga (2)		
11.	Team Sports			
	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)		
11	KINE 270.	Introduction to Fitness and Testing (2)		
		5()		
	•	uirements (46 units)		
1.	KINE 305.	Prevention and Treatment of Sports Injuries (4)		
2.	KINE 310.	History and Philosophy of Physical Activity (4)		
3.	KINE 323.	Sociology of Physical Activity (4)		
4.	KINE 324.	Psychology of Physical Activity (4)		
5.	KINE 325	Motor Development Across the Lifespan (2)		
	KINE 370.	Measurement and Evaluation in Kinesiology (4)		
7.	KINE 410.	Motor Control and Skill Learning (4)		
8.	KINE 472.	Program Design in Physical Education (4)		

- 9. KINE 473. Instructional Strategies in Physical Education (4)
- 10. KINE 479. Qualitative Biomechanics (5)
- 11. KINE 481. Exercise Physiology (5)
- 12. KINE 490. Senior Seminar in Kinesiology (2)

Electives (16 units)

1. Sixteen units chosen from either lower- or upper-division courses selected with the approval of the Kinesiology department.

## B.S. IN KINESIOLOGY - PRE-PHYSICAL THERAPY

Requirements (126-128 units)

# Total Requirements for Graduation (180)

#### Requirements for the B.S. in Kinesiology -Pre-Physical Therapy Concentration (126-128 units)

Lower-division requirements (71 units)

- 1. COMM 120. Oral Communication (4)
- A minimum of five units in biology with a laboratory component must be taken. Only BIOL 100. Topics in Biology or BIOL 202. Biology of Populations satisfies the University's Life Science requirement.
- 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 215. General Chemistry I (6)
- 7. CHEM 216. General Chemistry II (6)
- 8. ENG 101. English Composition (4)
- Four units chosen from: ENG 110. World Literature I (4) ENG 111. World Literature II (4)
   KINE 210A. Introduction to Kinesiology (2)
- 11. KINE 254. Field Experience (2)
- 12. KINE 270. Introduction to Fitness and Testing (2)
- 13. MATH 192. Methods of Calculus (4)
- Physics: A minimum of thirteen 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)
- 15. PSYC 100. Introduction to Psychology (4)
- Upper division requirements (40 units)
- 1. KINE 305. Prevention and Treatment of Sports Injuries (4)
- 2 KINE 310. History and Philosophy of Physical Activity (4)
- 3. KINE 325. Motor Development Across the Lifespan (2)
- 4. KINE 360. Physical Activity and Aging (2)
- 5. KINE 370. Measurement and Evaluation in Kinesiology (4)
- 6. KINE 410. Motor Control and Skill Learning (4)
- 7. KINE 480. Biomechanics (5)
- 8. KINE 481. Exercise Physiology (5)
- 9. KINE 490. Senior Seminar in Kinesiology (2)
- 10. NSCI 306. Expository Writing for the Natural Sciences (4)
- 11. PSYC 390. Abnormal Psychology (4)

Electives (15-17 units)

- 1. Eight chosen from upper-division courses selected with the approval of the Kinesiology department.
- Seven to nine units chosen from either lower- or upper-division courses selected with the approval of the Kinesiology department.

# 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.

# Recommendation for the Adapted Physical Education Credential:

In addition to completing the adapted physical education program requirements and credential coursework, the candidate must successfully complete the following requirements to receive a recommendation for the Adapted Physical Education Specialist Credential.

- 1. Verification of subject matter competence by one of the following:
  - a. completion of an equivalent California-approved single subject matter preparation program in physical education verified in writing by authorized personnel;
  - b. original verification of a passing score on the CSET examination for Physical Education;

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- 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;
- 2. Documentation of a minimum of 100 hours of fieldwork experience in Adapted Physical Education in compliance with the Standards of the California Commission for Teacher Credentialing;
- 3. Completion of student teaching in adapted physical education and physical education at:
  - a. CSUSB or an equivalent California campus with an approved single subject matter adapted physical education preparation program verified in writing by authorized personnel, or
  - b. a California Public School verified in writing by authorized personnel with one year of demonstrated effective teaching in adapted physical education:
- Completion of the final written exit examination and exit interview 4. with the adapted physical education coordinator at CSUSB;
- Consult the coordinator of adapted physical education for current 5. information about this credential as pending state legislation may require curricular changes.

#### **Credential Requirements (16 units)**

Upper-division requirements (16 units)

- 1. ESPE 530. Psychology and Education of Exceptional Individuals (4)
- 2. KINE 330. Movement Skill Assessment for Individuals with Disabilities (4)
- Eight units chosen from: 3.
  - KINE 331A. Topics in Adapted Physical Education: Adapted Aquatics (2)
  - KINE 331B. Topics in Adapted Physical Education: Physical Disabilities (2)
  - KINE 331C. Topics in Adapted Physical Education: Disabilities in Learning (2)
  - KINE 331D. Topics in Adapted Physical Education: Disabilities in Communication (2)
  - KINE 331E. Topics in Adapted Physical Education: Severe and Profound Disabilities (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 142 or contact the Credentials Office (C.A.S.E.).

## MINOR IN KINESIOLOGY

#### Requirements (43 units)

#### Requirements for a minor in Kinesiology:

Lower-division requirements (26 units)

- 1. BIOL 223. Human Physiology and Anatomy I (5)
- BIOL 224. Human Physiology and Anatomy II (5) 2
- KINE 210A. Introduction to Kinesiology (2) 3.
- KINE 254. Field Experience (2) 4.
- Eight units chosen from: 5.
  - Professional Activity Preparation in Individual KINE 261A. and Dual Sports/Movement Forms: Archery (2)
    - KINE 261B. Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Badminton (2)

KINE 261C	<ul> <li>Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Dance (2)</li> </ul>	
KINE 261D		
KINE 261E		
KINE 261F.	Professional Activity Preparation in Individual and Dual Sports/Movement Forms: Gymnastics (2)	
KINE 261G	•	
KINE 261H		
KINE 261J.		
KINE 261K		
KINE 261L.		
KINE 261M		
KINE 261N		
KINE 2610		
6. Four units of	hosen from:	
KINE 263A		
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 (17 units)		

Prevention and Treatment of Sports Injuries (4)

1. KINE 305. 2. Four units chosen from:

- Sociology of Physical Activity (4) KINE 323.
- KINE 324. Psychology of Physical Activity (4)
- Four units chosen from: 3.
  - Exercise Science Program Management (4) KINE 471.
  - KINE 472. Program Design in Physical Education (4)
- 4. KINE 481. Exercise Physiology (5)

## MINOR IN RECREATION

#### **Requirements (24 units)**

#### Requirements for a minor in Recreation:

Lower-division requirements (16 units)

- KINE 200. First Aid (2) 1.
- KINE 203. Introduction to Recreation (4) 2.
- 3. KINE 254. Field Experience (2)
- KINE 271. Recreation Leadership (4) 4.
- Recreation Programming (4) 5. KINE 277.

#### Upper-division requirements (8 units)

- 1. KINE 365. Outdoor Education and Camp Leadership (4)
- 2. KINE 471. Exercise Science Program Management (4)

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# **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 55 for further certificate information.

# Certificate in Coaching

### Certificate requirements (33 units)

Lower-division requirements (12 units)

LU		
1.	KINE 200.	First Aid (2)
2.	Four units cho	osen from:
	KINE 261A.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms: Archery (2)
	KINE 261B.	Professional Activity Preparation in Individual
	-	and Dual Sports/Movement Forms:
		Badminton (2)
	KINE 261C.	Professional Activity Preparation in Individual
	101112 2010.	and Dual Sports/Movement Forms: Dance (2)
	KINE 261D.	Professional Activity Preparation in Individual
	RINE 201D.	and Dual Sports/Movement Forms: Fitness (2)
	KINE 261E.	Professional Activity Preparation in Individual
	KINE ZOIE.	and Dual Sports/Movement Forms: Golf (2)
	KINE 261F.	
	KINE 201F.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms:
		Gymnastics (2)
	KINE 261G.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms:
		Racquetball (2)
	KINE 261H.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms:
		Swimming (2)
	KINE 261J.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms: Tennis (2)
	KINE 261K.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms: Track and
		Field (2)
	KINE 261L.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms: Aerobic
		Exercise (2)
	KINE 261M.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms: Martial
		Arts (2)
	KINE 261N.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms: Strength and
		Conditioning (2)
	KINE 2610.	Professional Activity Preparation in Individual
		and Dual Sports/Movement Forms: Yoga (2)
3.	Four units cho	
	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 (21 units)

- 1. KINE 323. Sociology of Physical Activity (4)
- KINE 324. Psychology of Physical Activity (4) 2.
- KINE 343. 3. Methods and Techniques of Coaching (4)
- KINE 472. Program Design in Physical Education (4) 4.
- KINE 480. **Biomechanics** (5) 5.

#### Certificate in Fitness Management

#### Certificate requirements (33 units)

- 1. KINE 305. Prevention and Treatment of Sports Injuries (4) 2. KINE 454. Field Experience II (3) KINE 471. Exercise Science Program Management (4) 3. 4 KINE 480. **Biomechanics** (5) KINE 481. Exercise Physiology (5) 5. 6. KINE 482. Contemporary Fitness Programs (4) KINE 483. Exercise Prescription (4) 7. KINE 580. Exercise, Energy and Human Performance (4) 8. 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: Lifequard 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) Aquatic Activities: Swimming (2) KINE 137J. KINE 137K. Aquatic Activities: Water polo (2) 5. Four units chosen from: Outdoor Skills Activities: Backpacking (2) KINE 146A. KINE 146B. Outdoor Skills Activities: Camping (2) KINE 146C. Outdoor Skills Activities: Mountaineering (2) Outdoor Skills Activities: Orienteering (2) KINE 146D. Outdoor Skills Activities: Survival skills (2) KINE 146E. Upper-division requirements (11 units) 1. KINE 365. Outdoor Education and Camp Leadership (4) 2. KINE 454. Field Experience 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;
- Earned a 3.0 ("B") grade point average overall; 2.
- Over one-half of the course work for the kinesiology major must 3. be taken at California State University, San Bernardino;
- 4. Recommendation by the kinesiology faculty.

# **KINESIOLOGY - BASIC INSTRUCTION** ACTIVITY 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

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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 courses in the same category.

# 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 and activities. Graded ABC/no credit. Formerly PE 101. (GE=E3)

- 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**=E3)

- 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**=E3)

- 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**=E3)

- 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**=E3)

- 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 to and practice of 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 program 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**=E3) (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**=E3) (2 units)

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#### 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**=E3)
- A. Aerobic (2 units)
- B. Low-Impact Aerobic (2 units)
- C. Step Aerobic (2 units)
- 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 units)
- 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. May be repeated. (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. May be repeated. (2 units)

#### 200. First Aid

Introduction to 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. (KINE 200=**CAN** KINE/PE 8) (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**=E1) (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 health fitness instructors 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/Movement Forms

The development of the fundamental techniques and skills for teaching these activities. Formerly PE 261. Prerequisite: one of the following: KINE 210A, 210B.

- A. Archery (2 units)
- B. Badminton (2 units)
- C. Dance (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)
- L. Aerobic Exercise (2 units)
- M. Martial Arts (2 units)
- N. Strength and Conditioning (2 units)
- O. Yoga (2 units)

#### 263. Professional Activity Preparation of Team Sports

The development of the fundamental techniques and skills for teaching these activities. 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)

### 270. Introduction to Fitness and Testing

Understanding the scientific basis for assessing physical conditional, fitness, and strength development. Acquisition of the skills and techniques necessary for designing and evaluating fitness programs for specific applications. Four hours activity. Formerly KINE 261D. (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, arts and sports. Formerly PE 277. Prerequisite: KINE 203 or 271. (4 units)

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### **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. Movement Skill Assessment for Individuals with Disabilities

Analysis of motor skills for the purpose of conducting meaningful assessment for individuals with disabilities. Formerly PE 330. Prerequisites: KINE 210 and 410, or consent of department. (4 units)

#### 331. Topics in Adapted Physical Education

Analysis of medical aspects and application of instructional strategies relevant to teaching and assessing motor skills in individuals with disabilities. Formerly PE 331. Prerequisite: KINE 330.

- A. Adapted Aquatics (American Red Cross certification) (2 units)
- B. Physical Disabilities (2 units)
- C. Disabilities in Learning (2 units)
- D. Disabilities in Communication (2 units)
- E. Severe and Profound Disabilities (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 fieldwork 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 Experience II

Supervised leadership experience in a teaching or fitness setting. Formerly PE 454. Prerequisite: KINE 254 or consent of instructor. (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. 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. Prerequisites: KINE 210A and 254. (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)

#### 479. Qualitative Biomechanics

Analysis of movement and application of physical laws to human performance from a qualitative perspective. Four hours lecture and three hours laboratory. Prerequisites: BIOL 223 and 224 with grades of "C" or better; and MATH 110. (5 units) 7

#### 228 / Kinesiology

#### 480. Biomechanics

Application of physical laws to human performance; analytical and quantitative processes emphasized. Four hours lecture and three hours laboratory. Formerly PE 480. Prerequisite: 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 health fitness instructors 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 including but not limited to: healthy individuals; cardiac rehabilitation patients, and athletes. Content is consistent with skills necessary to prepare students as health fitness instructors 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. Prerequisites: 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 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. (1 to 4 units)

Graduate level courses can be found on Page 444.

7

# LATIN AMERICAN STUDIES

# College of Arts and Letters

University Hall, UH-201.44

(909) 537-5858 http://cal.csusb.edu/

#### Minor

Latin American Studies

DIRECTOR: M. Antonietta Gallegos-Ruiz

## MINOR IN LATIN AMERICAN STUDIES

#### **Requirements (28 units)**

#### Requirements for a minor in Latin American Studies:

#### Admission to the Program

- 1. Students must meet general university admission requirements;
- Students should discuss this minor with their academic advisors. 2. 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:
- CSUSB will not consider for transfer credit coursework from an 2. institution that will not accept that coursework in its own degree program.

### **Requirements for the Minor:**

Core requirements (8 units)

- 1. Four units chosen from: 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)

International experience (4 units)

1. HUM 576. International Experience (4)

Integrative international seminar (4 units)

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 units)

- Twelve units, with at least one course each from groups A, B, 1. and C:
- Social Sciences Α.

ANTH 306.	Aztecs, Mayans and their Predecessors (4)
ANTH 307.	Incas and their Predecessors (4)
ANTH 324.	Pre-Colombian Art (4)
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 322.	United States and Mexico Border Issues (4)
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)
DSCI 3520	Minority Politics: Latino Politics (1)

- PSCI 352C. Minority Politics: Latino Politics (4)
- SOC 342. The Chicano Family (4)

	SOC 442	2.	Chicano Social Stratification (4)
	SOC 525	5.	Indian Nations and Native Americans (4)
	SOC 590	D.	Seminar in Sociology: Life and Society in the
			U.SMexico Borderlands (4)
	SSCI 30	4	Contemporary Latin America (4)
В.			es, Literature and Education
υ.	ART 324		Pre-Colombian Art (4)
	ART 328		
			Mexican Art (4)
	ART 329		Chicano Art (4)
	EELB 51	Ζ.	Spanish Children's Literature for the Bilingual
		-	Classroom (4)
	ENG 319		Studies in Literary Diversity (4)
	ENG 323		Chicano Literature (4)
	HUM 33	5.	The Origin and Contemporary Role of Latino
			Culture (4)
	HUM 46	0.	Cultural Studies (4)
	MUS 35 ⁻	1.	Latin American Music (4)
	SPAN 31	14.	Advanced Conversation (4)
	SPAN 31	16A.	Spanish for the Professions: Communications (4)
	SPAN 31		Spanish for the Professions: Health Science (4)
	SPAN 31		Spanish for the Professions: Education (4)
	SPAN 31		Spanish for the Professions: Business (4)
	SPAN 31	-	Spanish for the Professions: Law
		10L.	Enforcement (4)
	SPAN 41	10	
			Spanish American Culture and Civilization (4)
	SPAN 43		Chicano Literature in Spanish (4)
	SPAN 44		Mexican Literature (4)
	SPAN 44		Literature of the Southern Cone (4)
	SPAN 51	16.	Seminar in Spanish American Literature, Culture or Film (4)
	Note	·.	Spanish courses at the 300-level and above are
	11010		taught in Spanish.
C	Rusines	. Mar	agement, Communication, Health and Nutrition
0.	COMM 4		International Communication (4)
	COMM 5	087.	Topics in Mass Communication: Media and
	001414		Social Change in Latin America (4)
	COMM 5	93D.	
			Latin America (4)
	HSCI 34		International Perspectives on Nutrition (4)
	HSCI 35		International Perspectives on Health (4)
	HSCI 38	5.	Cultural Aspects of Food: Traditions and
			Trends (4)
	MGMT 3		International Environmental Management (4)
	MGMT 4		International Management (4)
	MGMT 4	-07.	Comparative Management Systems of the
			Americas (4)
	MKTG 4		International Marketing Management (4)
	Note:	In the	electives categories, those courses not specifying
		a topi	ic, are applicable only when the student's project/
			rch focuses on Latin America.
	Note:		ents may receive credit for only one of the following
		cours	
		ANT	H 324. Pre-Colombian Art (4)
			324. Pre-Colombian Art (4)
For	oian Lana		Requirement for Spanish or Portuguese:
	UNIT Lang	JUUYE	requirement for opanion of 1 onluguese.

The following rules apply to challenging a language course for

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

Providing documentation of significant foreign language experience such as the successful completion of two years of

Peace Corps experience in a Spanish- or Portuguese-speak-

1. Only courses at the 150-level or higher may be challenged. Students whose language of instruction in secondary school was

credit in this minor:

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ing country.

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# LIBERAL STUDIES

### Liberal Studies Office

Pfau Library, Room 239 (909) 537-5857 http://www.csusb.edu/liberal/

#### Liberal Studies Peer Advising Center (PALS)

Pfau Library, Room 241 (909) 537-5482

#### **Bachelor of Arts**

Liberal Studies Liberal Studies - Integrated Track Liberal Studies - Spanish Studies Track Liberal Studies - Non Teaching Track*

#### 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.

Note: All Liberal Studies students who are currently under a catalog year of 2002/2003 or earlier must complete their requirements for the B.A. degree before December 31, 2007 or they will be held to the new Liberal Studies requirements of the 2003/2004 catalog. See a PALS advisor, PL-241, for details.

The Liberal Studies Integrated Track leads to a Bachelor of Arts degree in Liberal Studies and Multiple Subject Credential. It is designed for students who plan to become elementary, K-8, school teachers AND who want to save time (about 2 guarters or 27 units) by working on the credential along with their B.A. degree.

The Liberal Studies program contains a track for students who desire a Spanish Studies emphasis. Information on this track is available on Page 235.

*At this time no students are being admitted to the Non Teaching Track.

#### **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;
- Completed at least 45 units of Liberal Studies courses at this uni-2. versitv:
- 3. Successful completion of oral and written honors evaluations.

### **B.A. IN LIBERAL STUDIES - GENERAL TRACK Requirements (173 units)**

#### Total units required for graduation: 180

#### BASIC PROGRAM (159 units)

- A. Reading, Language, and Literature (28 units)
- B. History and Social Science (28 units)
- C. Mathematics (18 units)
- D. Science (22 units)
- E. Visual and Performing Arts (13 units)
- Physical Education and Health (10 units) F.
- G. Human Development (10 units)
- H. Additional General Education (GE) Requirements (20 units)
- 1 Additional Liberal Studies Requirements (8 units)

# FIELD OF CONCENTRATION (16 units)

- J. Concentrations (16 units)
- LIBERAL STUDIES TOTAL (173 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), PL-241;
- 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 J, cannot be taken in a breadth area, categories A through G:
- 4. The Liberal Studies, General Track program is designed especially for students who wish to enter elementary school teaching;
- 5. Assessment is a required component of the Liberal Studies major and is found under category I. All entering freshmen must enroll in HUM 197 at the earliest possible date. After 90 units are completed, students must enroll in HUM 397. After 135 units are completed, students must enroll in HUM 597.

Transfer students must enroll in HUM 197 immediately if they have not had an equivalent course elsewhere, immediately followed by HUM 397. They will then take HUM 597 after 135 units are completed;

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.

#### Requirements for the B.A. in Liberal Studies -**General Track:**

- A. Reading, Language, and Literature (28 units)
- Freshman Composition (G.E.) 1.
- ENG 101. Freshman Composition (4)
- 2. Oral Communication (G.E.)
- COMM 120. Oral Communication (4) 3. Lower division Literature (G.E.)
- Four units chosen from: World Literature I (4) ENG 110.
  - ENG 111. World Literature II (4)
  - ENG 160. World Drama (4)
  - ENG 170. Studies in Literature (4)
  - World Drama (4) TA 160.
  - TA 212.
- Oral Interpretation of Literature (4) 4. Upper division Writing (G.E.)
- Four units chosen from:
  - EDUC 306. Expository Writing for Education (4)
  - Expository Writing (4) ENG 306.
  - HUM 306. Expository Writing for the Humanities (4)
  - MGMT 306. Expository Writing for Administration (4)
  - NSCI 306. Expository Writing for the Natural Sciences (4)
  - Expository Writing for the Social Sciences (4) SSCI 306.
  - This requirement also can be met by passing a profi-Note: ciency examination. No unit credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.
- 5. Analysis of Literature
- Four units chosen from:
  - ENG 301A. Analysis of Poetry (4)
  - ENG 302A. Analysis of Drama (4)
  - ENG 303A. Analysis of Prose Fiction (4)
  - ENG 304A. Analysis of Nonfiction Prose (4)
- TA 302A. Analysis of Drama (4)
- 6. Linguistics
  - ENG 311. The English Language (4)
  - Students must maintain a "C" or better in this course. Note:

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7. Children's Literature Four units chosen from: ENG 320. Children's Literature (4) ENG 327. Literature for Adolescents and Young Adults (4) B. History and Social Science (28 units) World Civilization I (G.E.) Four units chosen from: World Civilizations I, the Rise of Civilization (4) ANTH 140. HIST 140. World Civilizations I, the Rise of Civilization (4) 2. World Civilization II HIST 142. World Civilizations II, the Civilizations of the East and the West (4) American Civilization (G.E.) 3. Four units chosen from: American Civilization (4) HIST 146. HIST 200. United States History to 1877 (4) American Government (G.E.) 4. American Government (4) PSCI 203. 5. California History HIST 270. California History (4) 6. Economics Economics in the Elementary and Middle ECON 311. School (4) 7. Geography GEOG 300. Geography in the Elementary and Middle School Classroom (4) C. Mathematics (18 units) Ideas of Mathematics (G.E.) 1. The Ideas of Mathematics (4) MATH 115. 2. Fundamental Concepts of Mathematics for Educators MATH 301A. Fundamental Concepts of Arithmetic and Geometry (4) MATH 301B. Transition from Concrete to Abstract in Algebra and Geometry (4) MATH 301C. Further Developments in Algebra and Geometry (4) Problem Solving in Mathematics 3. Problem Solving Through Theory and MATH 308. Practice (2) D. Science (22 units) Life Sciences (G.E.) 1 BIOL 100. Topics in Biology (5) Physical Science (G.E.) 2. Students must take both: CHEM 100. Chemistry in the Modern World (5) PHYS 100. Physics in the Modern World (5) 3. Earth and Space Science Five units chosen from: GEOG 311. The Dynamic Earth (5) GEOL 309. Earth: The Blue Planet (5) PHYS 311. A Cosmic Perspective of Earth (5) 4. Technology (G.E.) CSCI 129. Science, Computing and Society (2) E. Visual and Performing Arts (13 units) Art Appreciation (G.E.) 1. Four units in the arts chosen from: ART 200. Studies in Art (4) MUS 180. Studies in Music (4) TA 260. Introduction to Theatre (4) 2. Music Activity MUS 531. Musical Development for the Elementary Teacher (3)

3.	Theatre Activity		
	Three units cl		
	TA 481.	Creative Drama in the Classroom (3)	
	TA 484.	Readers Theatre in the Classroom (3)	
	TA 486.	Puppetry in the Classroom (3)	
4.	Visual Arts Ac		
	A minimum of	f three units chosen from:	
	ART 395.		
		Teaching Art in the Elementary Classroom (4)	
F.		ucation and Health (10 units)	
1.	Physical Edu		
••	Two units cho		
	KINE 101.		
	KINE 114.		
	KINE 120.	Combative and Martial Arts Activities (2)	
	KINE 120.	Team Activities (2)	
	KINE 121. KINE 137.	Aquatic Activities (2)	
		A Fitness Odyssey (2)	
	KINE 147.	Independent Activity Project (2)	
	KINE 149. KINE 150.	Donoo Activition (2)	
S			
2.	Physical Fitne KINE 205.	Foundations for Lifetime Fitness and	
	KINE 205.		
2	May amont Cl	Wellness (2)	
3.	Movement Sk		
	Four units che		
		Creative Dance in the Classroom (4)	
		Movement for Children (4)	
4.	Health	Operate in Lingth (0)	
	HSCI 100.	Concepts in Health (2)	
~		lents must maintain a "C" or better in this course.	
G.		elopment (10 units)	
1.	Child Develop		
	HD 240.	Introduction to Child Development (4)	
_		lents must maintain a "C" or better in this course.	
2.		and Methods in Child Development	
		be taken concurrently with or after HD 240	
	chosen from:		
	HD 245.	Observation and Methods in Child Development:	
		Early Childhood (2)	
	HD 246.	Observation and Methods in Child Development:	
		Middle Childhood (2)	
	HD 247.	Observation and Methods in Child Development:	
		Adolescence (2)	
3.	Exceptional C		
	PSYC 350.	Development of Exceptional Children (4)	
		lents must maintain a "C" or better in this course.	
Н.		eneral Education Requirements (20 units)	
1.	Critical Thinki		
	Four units che		
	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 (C	G.E.)	
	Four units che		
	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)	
	PHII 194	Introduction to Knowledge and Reality (4)	

PHIL 194. Introduction to Knowledge and Reality (4)

#### 232 / Liberal Studies

3.		
	Four units cho	sen from:
	ARAB 150.	Intermediate Arabic III (4)
	ARAB 214.	Conversation in Arabic (4)
	FLAN 150A.	Intermediate Language Study: American Sign
		Language (4)
	FREN 150.	Intermediate French (4)
	FREN 200.	Culture and Communication (4)
	FREN 201.	Culture and Communication II (4)
	FREN 202.	Culture and Communication III (4)
	GER 150.	Intermediate German (4)
	GER 212.	Composition (4)
	GER 214.	Conversation (4)
	GER 216.	Introduction to Literary Texts (4)
	SPAN 150.	Intermediate Spanish (4)
	SPAN 155.	Intermediate Spanish for Heritage/Native
		Speakers (4)
	SPAN 212.	Composition (4)
	SPAN 213.	Composition for Heritage/Native Speakers (4)
	SPAN 214.	Conversation (4)
		ents pursuing the B.A. in Liberal Studies cannot
		de in Category B3 the following courses:
		B 290. Arabic Literature in Translation
		N 290. French Literature in English
	-	290. German Literature in English
	SPA	N 290. Spanish and Latin American Literature
4	Integrativa Ca	in English
4.	Four units cho	pstone in the Humanities (G.E.)
	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
	110101 0000.	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 375.*	The World of Islam (4)
	HUM 380.*	Comparative Studies in the Arts: East and
		West (4)
	HUM 385.	A Cultural History of Fashion (4)
5.	Integrative Ca	pstone in the Social and Behavioral
	Sciences (G.E	
	Four units cho	
	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 345.	Religious Expression in America (4)
	SSCI 350.*	Roots of Modern Racism in America (4)
		ulticultural Requirement for GE. Students should
		course in category B6, C& or D6. Credit can be re-
		or Hum 325, NSCI 325, or SSCI 325.
I.		peral Studies Requirements (8 units)
1.	Assessment (4 HUM 197.	Assessment Preparation I in Liberal Studies (1)
	HUM 197. HUM 397.	Assessment Preparation I in Liberal Studies (1) Assessment Preparation II in Liberal Studies (1)
	HUM 597.	Senior Assessment in Liberal Studies (1)
2.		periences (4 units)

2. Classroom Experiences (4 units) EELB 230. Introduction to Education (4)

#### J. Concentration (16 units)

The concentration requires at least 16 units. However, two of those units may be a course required of all Liberal Studies majors. Concentrations noted with an (†) are in areas that do not meet this rule and will require 18 units minimum of specific coursework.

Anthropology† Art Art, Music and Theatre for Teachers Biology Chemistry Chicano/a and Latino/a Studies† **Communication Studies** Computer Science Dance Economics English French[†] Geography Geology[†]

German[†] Health Science History Human Development Kinesiology (no activity courses) Latin American Studies Mathematics Music Physics Political Science Psychology Sociology[†] Spanish[†] Theatre Arts Women's Studies[†]

# B.A. IN LIBERAL STUDIES -INTEGRATED TRACK

### Requirements (201 units)

- SUBJECT MATTER PROGRAM (153 UNITS)
- A. Reading, Language, and Literature (24 units)
- B. History and Social Science (28 units)
- C. Mathematics (18 units)
- D. Science (22 units)
- E. Visual and Performing Arts (13 units)
- F. Physical Education and Health (10 units)
- G. Human Development (18 units)
- H. Additional General Education (GE) Requirements (12 units)
- I. Additional Liberal Studies Requirements (8 units)
- MULTIPLE SUBJECT CREDENTIAL PROGRAM (48 units)
- J. Phase I (15 units)
- K. Phase II (17 units)
- L. Phase III (16 units)
- INTEGRATED PROGRAM TOTAL (201 units)
- 1. The Liberal Studies Integrated Track is designed specifically for students who wish to enter elementary school teaching AND who want to save time by working on credential preparation along with their B.A. degree.
- The Integrated Track will not suit the needs of all students and, since the Liberal Studies program has several tracks from which to choose, students should seek advisement as early as possible at the Liberal Studies Peer Advising Center (PALS), PL-241.
- Grades in categories A-I must be a "C-" or better, with category H the only exception. Certain courses will be noted which must be completed with a grade of "C."
- 4. Grades in categories J, K and L must be a "B-" or better with an overall GPA of 3.0 in those categories.
- Requirements for entering the Multiple Subject Credential program:
  - a. Junior status (90 quarter units),
  - b. Cumulative grade point average of 2.67 or higher,
  - c. Completion of lower division coursework,
  - d. Verification of a negative tuberculin examination within the last four years,
  - e. Submission of an application for a certificate of clearance,
  - f. Written verification that the California Basic Educational Skills Test (CBEST) has been taken or a passing score on the CBEST,

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Submission of a Program Admission File (PAF) to Credential g. Assistance for Students in Education (C.A.S.E.), CH-123, at least one quarter prior to enrollment in Credential courses (Phase I);

6. Assessments are a required component of the Integrated Track and are found under categories I through L. All entering freshmen must enroll in HUM 197 at the earliest possible date. After 90 units are completed, students must enroll in HUM 397. Students must enroll in HUM 597 and EELB 519 prior to admission to supervision (EELB 540A).

Transfer students must enroll in HUM 197 immediately if they have not had an equivalent course elsewhere, followed by HUM 397;

- 7. Requirements for admission to supervision (EELB 540A): a. Passing score on CBEST;
  - b. Passing score on California Subject Examination for Teachers (CSET);
  - Completion of Phase I courses (EELB 312, 313, 315, 317, c. and 519).
- Additional requirements for the Multiple Subject Credential 8.
- a. Current and valid CPR certification that includes Infant, Child and Adult;
  - b. Reading Instruction Competency Assessment (RICA).

#### Requirements for the B.A. in Liberal Studies h

Int	egrated Tra	ack:
Α.	Reading, Lan	iguage, and Literature (24 units)
1.	Freshman Co	mposition (G.E.)
	ENG 101.	Freshman Composition (4)
2.	Oral Commun	ication (G.E.)
	COMM 120.	Oral Communication (4)
3.	Lower Division	n Literature (G.E.)
	Four units cho	osen 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)
4.		n Writing (G.E.)
	Four units cho	
	EDUC 306.	
	ENG 306.	Expository Writing (4)
	HUM 306.	Expository Writing for the Humanities (4)
	MGMT 306.	
	NSCI 306.	Expository Writing for the Natural Sciences (4)
	SSCI 306.	Expository Writing for the Social Sciences (4)
		requirement also can be met by passing a
		ciency examination. No unit credit is awarded
_		assing the examination.
5.	Analysis of Lit	
	Four units cho	
	ENG 301A.	
	ENG 302A.	Analysis of Drama (4)
	ENG 303A.	
	ENG 304A.	Analysis of Nonfiction Prose (4)
~	TA 302A.	Analysis of Drama (4)
6.	Linguistics	
	ENG 311.	The English Language (4)
7		ents must maintain a "C" or better in this course.
7.	Children's Lite Four units cho	
	ENG 320. ENG 327.	
	ENG JZ1.	Literature for Addrescents and roung Addres (4)

В.	History and S	ocial Science (28 units)
1.	-	
	Four units cho	
	ANTH 140.	World Civilizations I, the Rise of Civilization (4)
	HIST 140.	World Civilizations I, the Rise of Civilization (4)
2.	World Civilizat	ion II
	HIST 142.	World Civilizations II, the Civilizations of the East
		and the West (4)
3.	American Civil	ization (G.E.)
	Four units cho	sen from:
	HIST 146.	American Civilization (4)
	HIST 200.	United States History to 1877 (4)
4.	American Gov	
	PSCI 203.	American Government (4)
5.	California Histo	
		California History (4)
6.	Economics	
	ECON 311.	Economics in the Elementary and Middle
_	<b>•</b> •	School (4)
7.	017	
	GEOG 300.	Geography in the Elementary and Middle School
~		Classroom (4)
	Mathematics	
1.		The Ideas of Mathematics (4)
r		Concepts of Mathematics for Educators
Ζ.	MATH 301A.	•
	WATH SUTA.	Geometry (4)
	MATH 301B.	Transition from Concrete to Abstract in Algebra
	W/ (111 00 1D.	and Geometry (4)
	MATH 301C.	
		Geometry (4)
3.	Problem Solvi	ng in Mathematics
	MATH 308.	Problem Solving Through Theory and
		Practice (2)
D.	Science (22 u	inits)
1.		
	BIOL 100.	Topics in Biology (5)
2.		nce (10 units) (G.E.)
	Students must	
		Chemistry in the Modern World (5)
	PHYS 100.	Physics in the Modern World (5)
3.		
	Five units chose	
	GEOG 311.	The Dynamic Earth (5)
	GEOL 309. PHYS 311.	Earth: The Blue Planet (5) A Cosmic Perspective of Earth (5)
4.	Technology (G	
4.	CSCI 129.	Science, Computing and Society (2)
F		erforming Arts (13 units)
1.	Art Appreciatio	
		he arts chosen from:
	ART 200.	Studies in Art (4)
	MUS 180.	Studies in Music (4)
	TA 260.	Introduction to Theatre (4)
2.	Music Activity	
	MUS 531.	Musical Development for the Elementary
		Teacher (3)
3.	Theatre Activit	
	Three units ch	
	TA 481.	Creative Drama in the Classroom (3)
	TA 484.	Readers Theatre in the Classroom (3)
4	TA 486.	Puppetry in the Classroom (3)
4.	Visual Art Activ	5
		three units chosen from:
	ART 395.	Art in the Classroom (3)

Teaching Art in the Elementary Classroom (4)

ART 400.

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	Physical Edu	ication and Health (10 units)
1.		
••	Two units cho	
	KINE 101.	
	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.	,	
	KINE 205.	Foundations for Lifetime Fitness and
		Wellness (2)
3.	Movement Sk	tills
	Four units cho	osen from:
	DAN 481.	
	KINE 352.	Movement for Children (4)
4.	Health	
	HSCI 100.	Concepts in Health (2)
	Note: Stud	ents must maintain a "C" or better in this course.
G.	Human Deve	lopment (18 units)
1.	Child Develop	
	HD 240.	Introduction to Child Development (4)
		ents must maintain a "C" or better in this course.
2.		and Methods in Child Development
		be taken concurrently with or after HD 240 chosen
	from:	se taken benearently with of alter HB 240 chosen
	HD 245.	Observation and Methods in Child Development:
	TID 240.	Early Childhood (2)
	HD 246.	Observation and Methods in Child Development:
	TID 240.	Middle Childhood (2)
	HD 247.	Observation and Methods in Child Development:
	ND 247.	•
2	Eventional	Adolescence (2)
3.	Exceptional C PSYC 350.	
		Development of Exceptional Children (4) ents must maintain a "C" or better in this course.
4		
4.	Integrative Co	
		apstone in the Humanities (G.E.)
	Four units cho	osen from:
	Four units cho HUM 319.	osen from: Myth, Metaphor and Symbol (4)
	Four units cho HUM 319. HUM 325.*	osen from: Myth, Metaphor and Symbol (4) Perspectives on Gender (4)
	Four units cho HUM 319. HUM 325.* HUM 330.	osen from: Myth, Metaphor and Symbol (4) Perspectives on Gender (4) Arts and Ideas (4)
	Four units cho HUM 319. HUM 325.*	osen from: Myth, Metaphor and Symbol (4) Perspectives on Gender (4) Arts and Ideas (4) The Origin and Contemporary Role of Latino
	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.*	Sen from: Myth, Metaphor and Symbol (4) Perspectives on Gender (4) Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4)
	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340.	osen from: Myth, Metaphor and Symbol (4) Perspectives on Gender (4) Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4)
	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344.	<ul> <li>Seen from:</li> <li>Myth, Metaphor and Symbol (4)</li> <li>Perspectives on Gender (4)</li> <li>Arts and Ideas (4)</li> <li>The Origin and Contemporary Role of Latino Culture (4)</li> <li>Interpretation and Values (4)</li> <li>Ideas in American Culture (4)</li> </ul>
	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.*	<ul> <li>Seen from:</li> <li>Myth, Metaphor and Symbol (4)</li> <li>Perspectives on Gender (4)</li> <li>Arts and Ideas (4)</li> <li>The Origin and Contemporary Role of Latino Culture (4)</li> <li>Interpretation and Values (4)</li> <li>Ideas in American Culture (4)</li> <li>The Cultures of American Childhood (4)</li> </ul>
	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.*	<ul> <li>by the second second</li></ul>
	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.*	<ul> <li>by the second second</li></ul>
	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.*	<ul> <li>by the second second</li></ul>
	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.*	<ul> <li>by the second second</li></ul>
	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 380.*	<ul> <li>by the second second</li></ul>
5.	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 380.*	<ul> <li>by the second second</li></ul>
5.	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 380.*	<ul> <li>by the second second</li></ul>
5.	Four units che HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 380.* HUM 385. Integrative Ca	Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.)
5.	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 380.* HUM 385. Integrative Ca Sciences (G.E	Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.)
5.	Four units che HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 385. Integrative Ca Sciences (GE Four units che	<ul> <li>by the second second</li></ul>
5.	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 385. Integrative Ca Sciences (GE Four units cho SSCI 300. SSCI 304.	Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.) Desen from: Nonwestern World (4) Contemporary Latin America (4)
5.	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 380.* HUM 385. Integrative Ca Sciences (GE Four units cho SSCI 300. SSCI 304. SSCI 315.	Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.) Desen from: Nonwestern World (4) Cultural Adaptation: The Quest for Survival (4)
5.	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 380.* HUM 385. Integrative Ca Sciences (GE Four units cho SSCI 300. SSCI 304. SSCI 315. SSCI 316.*	Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.) Desen from: Nonwestern World (4) Cultural Adaptation: The Quest for Survival (4) Race and Racism (4)
5.	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 380.* HUM 385. Integrative Ca Sciences (GE Four units cho SSCI 300. SSCI 304. SSCI 315. SSCI 316.* SSCI 320.	<ul> <li>by the second second</li></ul>
5.	Four units cho HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 385. Integrative Ca Sciences (GE Four units cho SSCI 300. SSCI 304. SSCI 315. SSCI 316.* SSCI 320. SSCI 321.	<ul> <li>by the second second</li></ul>
5.	Four units che HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 375.* HUM 385. Integrative Ca Sciences (GE Four units che SSCI 300. SSCI 304. SSCI 315. SSCI 316.* SSCI 321. SSCI 325.*	Arts and Ideas (4) Perspectives on Gender (4) Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.) Desen from: Nonwestern World (4) Cultural Adaptation: The Quest for Survival (4) Race and Racism (4) Understanding Capitalism (4) Urbanization and the Urban Environment (4) Perspectives on Gender (4)
5.	Four units che HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 385. Integrative Ca Sciences (GE Four units che SSCI 300. SSCI 304. SSCI 315. SSCI 316.* SSCI 321. SSCI 325.* SSCI 345.	Arts and Ideas (4) Perspectives on Gender (4) Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.) Desen from: Nonwestern World (4) Cultural Adaptation: The Quest for Survival (4) Race and Racism (4) Understanding Capitalism (4) Urbanization and the Urban Environment (4) Perspectives on Gender (4) Religious Expression in America (4)
5.	Four units che HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 385. Integrative Ca Sciences (GE Four units che SSCI 300. SSCI 304. SSCI 304. SSCI 315. SSCI 316.* SSCI 325.* SSCI 345. SSCI 350.*	Arts and Ideas (4) Perspectives on Gender (4) Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.) Seen from: Nonwestern World (4) Contemporary Latin America (4) Cultural Adaptation: The Quest for Survival (4) Race and Racism (4) Urbanization and the Urban Environment (4) Perspectives on Gender (4) Religious Expression in America (4)
5.	Four units che HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 375.* HUM 385. Integrative Ca Sciences (GE Four units che SSCI 300. SSCI 304. SSCI 315. SSCI 316.* SSCI 321. SSCI 325.* SSCI 325.* *Meets the m	Desen from: Myth, Metaphor and Symbol (4) Perspectives on Gender (4) Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.) Desen from: Nonwestern World (4) Contemporary Latin America (4) Cultural Adaptation: The Quest for Survival (4) Race and Racism (4) Urbanization and the Urban Environment (4) Perspectives on Gender (4) Religious Expression in America (4) nulticultural/gender requirement for G.E. Students
5.	Four units che HUM 319. HUM 325.* HUM 330. HUM 335.* HUM 340. HUM 344. HUM 350.* HUM 370.* HUM 375.* HUM 375.* HUM 385. Integrative Ca Sciences (GE Four units che SSCI 300. SSCI 304. SSCI 304. SSCI 315. SSCI 316.* SSCI 321. SSCI 325.* SSCI 325.* *Meets the m should choose	Arts and Ideas (4) Perspectives on Gender (4) Arts and Ideas (4) The Origin and Contemporary Role of Latino Culture (4) Interpretation and Values (4) Ideas in American Culture (4) The Cultures of American Childhood (4) African Heritage in the Arts (4) The World of Islam (4) Comparative Studies in the Arts: East and West (4) A Cultural History of Fashion (4) apstone in the Social and Behavioral E.) Seen from: Nonwestern World (4) Contemporary Latin America (4) Cultural Adaptation: The Quest for Survival (4) Race and Racism (4) Urbanization and the Urban Environment (4) Perspectives on Gender (4) Religious Expression in America (4)

H. Additional General Education Requirements (12 units)		
1.	Critical Thinkir	ng (G.E.)
	Four units cho	osen 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	
	Four units cho	
	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 Langu	
	Four units cho	
	ARAB 150.	Intermediate Arabic III (4)
	ARAB 214.	Conversation in Arabic (4)
	FLAN 150A.	Intermediate Language Study: American Sign
		Language (4)
	FREN 150. FREN 200.	Intermediate French (4) Culture and Communication (4)
	FREN 200.	Culture and Communication (4)
	FREN 201.	Culture and Communication III (4)
	GER 150.	Intermediate German (4)
	GER 212.	Composition (4)
	GER 214.	Conversation (4)
	GER 216.	Introduction to Literary Texts (4)
	SPAN 150.	Intermediate Spanish (4)
	SPAN 155.	Intermediate Spanish for Heritage/Native
		Speakers (4)
	SPAN 212.	Composition (4)
	SPAN 213.	Composition for Heritage/Native Speakers (4)
	SPAN 214.	Conversation (4)
	Note: Stude	ents pursuing the B.A. in Liberal Studies cannot
	inclu	de in Category H.3 the following courses: ARAB,
	FRE	N, GER, or SPAN 290. A placement test must be
		prior to registering for SPAN 101, 102, 150 or 155.
		nore information about the Spanish Placement Test
		ferings in foreign languages, contact the Depart-
		t of World Languages and Literatures (909) 537-
		′, UH-314.
I.		beral Studies Requirements (8 units)
1.	Assessment (	
	HUM 197.	Assessment Preparation I in Liberal Studies (1)
	HUM 397.	Assessment Preparation II in Liberal Studies (1)
~	HUM 597.	Senior Assessment in Liberal Studies (2)
2.		periences (4 units)
	EELB 230.	Introduction to Education (4)

# Multiple Subject Credential Program (48 units)

- J. Phase I (15 units)
- 1. EELB 312. Family, Culture and Schooling (2)
- 2. EELB 313. Pedagogical Foundation for English Language Learners (4)
- 3. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
- 4. EELB 317. Educational Psychology for a Diverse Society (4)
- 5. EELB 519. Assessment Seminar I (2)
- K. Phase II (17 units)
- 1. EELB 422. Classroom Organization, Management and Discipline (2)
- 2. EELB 423. Mathematics Curriculum and Pedagogy (4)

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- 3. EELB 425. Literacy and Second Language Acquisition for the Intermediate Reader and Beyond (3)
- 4. EELB 529. Assessment Seminar II (2) 5. EELB 540A. Supervised Student Teaching Multiple Subjects (6)
- Phase III (16 units) L.
- EELB 532. Science/Health Curriculum and Pedagogy (4) 1.
- 2. EELB 533. Social Studies and the Arts Curriculum and Pedagogy (4)
- 3. EELB 539. Assessment Seminar III (2)
- 4. EELB 540B. Supervised Student Teaching in Multiple Subjects (6)

# **B.A. IN LIBERAL STUDIES -**SPANISH STUDIES TRACK

### **Requirements (178 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. See the general information provided under the General Track, items 1 to 6, which applies also to the Spanish Studies track.

#### **BASIC PROGRAM (178 UNITS)**

- A. Reading, Language, and Literature (28 units)
- B. History and Social Science (28 units)
- C. Mathematics (18 units)
- D. Science (22 units)
- Visual and Performing Arts (13 units) F.
- F. Physical Education and Health (10 units)
- G. Human Development (10 units)
- H. Additional General Education (GE) Requirements (20 units)
- Additional Liberal Studies Requirements (8 units) 1
- Spanish Studies (21 units) J.

#### Requirements for the B.A. in Liberal Studies -**Spanish Studies Track:**

#### A. Reading, Language, and Literature (28 units)

- Freshman Composition (G.E.) 1. ENG 101. Freshman Composition (4)
- 2. Oral Communication (G.E.) COMM 120. Oral Communication (4)
- 3. Lower Division 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)
  - Oral Interpretation of Literature (4) TA 212.

4. Upper Division Writing (G.E.) Four units chosen from:

- EDUC 306. Expository Writing for Education (4)
- Expository Writing (4) ENG 306.
- HUM 306.
- Expository Writing for the Humanities (4) MGMT 306. Expository Writing for Administration (4)
- Expository Writing for the Natural Sciences (4) NSCI 306. SSCI 306. Expository Writing for the Social Sciences (4)
- This requirement also can be met by passing a profi-Note: ciency examination. No unit credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.

- 5. Analysis of Literature ENG 323. Chicano Literature (4) 6. Linguistics ENG 311. The English Language (4) Note: Students must maintain a "C" or better in this course. 7. Children's Literature Four units chosen from: ENG 320. Children's Literature (4) ENG 327. Literature for Adolescents and Young Adults (4) B. History and Social Science (28 units) 1. World Civilization I (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) World Civilization II 2.
- World Civilizations II. the Civilizations of the East HIST 142. and the West (4)
- American Civilization (G.E.) 3. Four units chosen from: HIST 146. American Civilization (4) United States History to 1877 (4) HIST 200.
- 4. American Government (G.E.) American Government (4) PSCI 203.
- California History 5.
- HIST 270. California History (4)
- **Economics** 6 ECON 311. Economics in the Elementary and Middle School (4)
- 7. Geography GEOG 300. Geography in the Elementary and Middle School Classroom (4)

#### C. Mathematics (18 units)

- Ideas of Mathematics (G.E.) 1. MATH 115. The Ideas of Mathematics (4)
- 2. Fundamental Concepts of Mathematics for Educators
- MATH 301A. Fundamental Concepts of Arithmetic and Geometry (4)
- MATH 301B. Transition from Concrete to Abstract in Algebra and Geometry (4)
- MATH 301C. Further Developments in Algebra and Geometry (4)
- 3. Problem Solving in Mathematics MATH 308. Problem Solving Through Theory and Practice (2)
- D. Science (22 units)
- Life Sciences (G.E.) 1.
  - BIOL 100. Topics in Biology (5)
- Physical Science (G.E.) 2.
  - Students must take both:
  - CHEM 100. Chemistry in the Modern World (5)
- PHYS 100. Physics in the Modern World (5) 3. Earth and Space Science (G.E.)
  - Five units chosen from:
    - The Dynamic Earth (5) GEOG 311.
    - GEOL 309. Earth: The Blue Planet (5)
  - A Cosmic Perspective of Earth (5) PHYS 311.
- 4. Technology (G.E.)
- CSCI 129. Science, Computing and Society (2)
- E. Visual and Performing Arts (13 units)
- 1. Art Appreciation (G.E.)

Four units in t	the arts chosen from:
ART 200.	Studies in Art (4)
MUS 180.	Studies in Music (4)
TA 260.	Introduction to Theatre (4)

- Music Activity
  - MUS 531. Musical Development for the Elementary Teacher (3)

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3.	Theatre Activ	itv
0.	Three units c	
	TA 481.	Creative Drama in the Classroom (3)
	TA 484.	Readers Theatre in the Classroom (3)
	TA 486.	Puppetry in the Classroom (3)
4.	Visual Art Act	
	A minimum o	f three units chosen from:
	ART 395.	Art in the Classroom (3)
	ART 400.	
F.		ucation and Health (10 units)
1.		
	Two units cho	
	KINE 101.	
	KINE 114.	
	KINE 120.	Combative and Martial Arts Activities (2)
	KINE 121.	Team Activities (2)
	KINE 137.	Aquatic Activities (2)
	KINE 147. KINE 149.	A Fitness Odyssey (2) Independent Activity Project (2)
	KINE 149. KINE 150.	Dance Activities (2)
2.	Physical Fitne	
۷.	KINE 205.	Foundations for Lifetime Fitness and
	1111L 200.	Wellness (2)
3.	Movement SI	
•	Four units ch	
		Creative Dance in the Classroom (4)
		Movement for Children (4)
4.	Health	
	HSCI 100.	Concepts in Health (2)
		lents must maintain a "C" or better in this course.
G.		elopment (10 units)
1.	Child Develop	
	HD 240.	Introduction to Child Development (4)
2		dents must maintain a "C" or better in this course.
2.		be taken concurrently with or after HD 240 chosen
	from:	be taken concurrently with of alter FID 240 chosen
	HD 245.	Observation and Methods in Child Development:
		Early Childhood (2)
	HD 246.	Observation and Methods in Child Development:
		Middle Childhood (2)
	HD 247.	Observation and Methods in Child Development:
		Adolescence (2)
3.	Exceptional C	
	PSYC 350.	Development of Exceptional Children (4)
		lents must maintain a "C" or better in this course.
Η.		eneral Education Requirements (20 units)
1.	Critical Thinki Four units ch	
	COMM 180.	Critical Thinking Through Argumentation (4)
	MATH 180.	Critical Thinking Through Applications of
	140/ 111 100.	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 (0	
	Four units ch	osen 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 Lang	
	FOULDINES CD	
	SPAN 212. SPAN 213.	Composition (4) Composition for Heritage/Native Speakers (4)

		"B" or above in this course.) (Meets Multicultur-
		al/Gender Category G1 in G.E.)
5.	Integrative Ca	apstone in the Social and Behavioral
	Sciences (G.I	1
	SSCI 304.	Contemporary Latin America (4)
I.	Additional L	iberal Studies Requirements (8 units)
1.	Assessment	(4 units)
	HUM 197.	Assessment Preparation I in Liberal Studies (1)
	HUM 397.	Assessment Preparation II in Liberal Studies (1)
	HUM 597.	Senior Assessment in Liberal Studies (2)
2.	Classroom E	xperiences (4 units)
	EELB 230.	Introduction to Education (4)
J.		dies (21 units)
1.		n Spanish language skills
	SPAN 302.	Theory and Practice in Composition (4)
	SPAN 395.	Junior Assessment (1)
	SPAN 415.	Comparative Linguistics: Spanish/English (4)
		(Students must maintain a a grade of "B" or
_		above in this course.)
2.		
		chosen from any upper division Spanish classes not
		another category and from the following:
	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 388.	Language and Culture (4)
	ART 328.	Mexican Art (4)
	ART 329. FLAN 320.	Chicano Art (4)
	FLAN 320.	Masterpieces of Literature (4) (when the topic is
	HIST 390.	Spanish or Latin American Studies) History of Modern Mexico (4)
	HIST 390. HIST 391.	
	HIST 391. HIST 470.	Chicano History (4) Modern Latin America (4)
	MUS 351.	Latin American Music (4)

4. Integrative Capstone in the Humanities (G.E.)

The Origin and Contemporary Role of Latino

HUM 335.

# B.A. IN LIBERAL STUDIES -NON TEACHING TRACK Requirements (150 units)

#### Total units required for graduation: 180

**NOTE:** The program is no longer admitting students in this track.

### 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:

- 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), PL-241;
- 2. By completing the Liberal Studies program, students also can fulfill the general education requirements of the university;
- 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;

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- 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;
- With advisement and a careful selection of courses, students can also complete a second major or minor in certain fields;
- 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)
- 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. No unit credit is awarded for passing the examination. It may be necessary to take additional units to meet minimum residency and graduation unit requirements.
- 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 301A. Analysis of Poetry (4)
  - ENG 302A. Analysis of Drama (4)
  - ENG 303A. Analysis of Prose Fiction (4)
  - ENG 304A. Analysis of Nonfiction Prose (4)
  - TA 302A. 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 301A. Analysis of Poetry (4)
- ENG 302A. Analysis of Drama (4)
- ENG 303A. Analysis of Prose Fiction (4)
- ENG 304A. 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 318. Introduction to Creative Writing: Fiction (4) ENG 319. Studies in Literary Diversity (4) Children's Literature (4) ENG 320. ENG 322. Studies in Literary Themes, Genres, or Authors (4) ENG 323. Chicano Literature (4) ENG 325. American Literature I (4) American Literature II (4) ENG 326. ENG 327. Literature for Adolescents and Young Adults (4) ENG 332. American Literature III (4) ENG 333. Myth and Epic (4) Studies in the Novel (4) ENG 335. ENG 336. Women Writers (4) ENG 339. African American Literature (4) English Literature of the Middle Ages (4) ENG 401. 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) Modern Fiction (4) ENG 447. ENG 450. Classical Drama (4) ENG 455. Modern Drama I (4) Modern Drama II (4) ENG 456. ENG 475. Shakespeare I (4) ENG 476. Shakespeare II (4) Advanced Creative Writing in Specialized ENG 513. Genres (4) ENG 515. Senior Seminar in Literature (4) Special Studies in Writing (2) ENG 565. ENG 566. Special Studies in Writing (4) HUM 312. Theories of Language Acquisition and Learning (4) Analysis of Drama (4) TA 302A. TA 450. Classical Drama (4) Modern Drama I (4) TA 455. 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) Critical Thinking (G.E.) Four units chosen from:

Introduction to Creative Writing: Poetry (4)

ENG 317.

- 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) Critical Thinking About Social Problems (4) SOC 180. 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: ARAB 150. Intermediate Arabic III (4)
  - ARAB 214. Conversation in Arabic (4)
  - FLAN 150. Intermediate Language Study (4)
  - FREN 150. Intermediate French (4)
  - FREN 200. Culture and Communication (4)
  - FREN 201. Culture and Communication II (4)

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	FREN 202.	Culture and Communication III (4)
	GER 150.	Intermediate German (4)
	GER 212.	Composition (4)
	GER 214.	Conversation (4)
	GER 216.	Introduction to Literary Texts (4)
	SPAN 150.	Intermediate Spanish (4)
	SPAN 155.	Intermediate Spanish for Heritage/Native
	SFAN 155.	
		Speakers (4)
	SPAN 212.	Composition (4)
	SPAN 213.	Composition for Heritage/Native Speakers (4)
	SPAN 214.	Conversation (4)
	•••••	ents pursuing the B.A. in Liberal Studies cannot
		de in Category B3 the following courses:
	ARA	B 290. Arabic Literature in Translation
	FRE	N 290. French Literature in English
	GEF	R 290. German Literature in English
		N 290. Spanish and Latin American
	017	1
	• .	Literature in English
4.		
	<ol> <li>Four units</li> </ol>	in the arts (G.E.) chosen from:
	ART 200.	Studies in Art (4)
	MUS 180.	
	TA 260.	Introduction to Theatre (4)
		s of upper-division activity courses chosen from
	a list of ap	proved courses available in the Liberal Studies
	Office.	
5.	Humanities El	ectives
	Four upper-div	vision units chosen from: art/music/theatre history,
		n studies, humanities, philosophy, and foreign lan-
		eratures in translation taught in English.
~		
6.		pstone in the Humanities (G.E.)
	Four units cho	
	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
	1000 335.	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
	110101070.	requirement in category F1) (4)
	HUM 375.*	The World of Islam (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)
		ulticultural Requirement for GE. Students should
		course in category B6, C& or D6. Credit can be re-
		or Hum 325, NSCI 325, or SSCI 325.
_		
		and Natural Sciences Breadth Area (32 units)
1.	Mathematics (	
	Four units cho	sen from:
	MATH 110.	College Algebra (4)
	MATH 115.	The Ideas of Mathematics (4)
	MATH 120.	Pre-Calculus Mathematics (4)
	MATH 120. MATH 192.	
		Methods of Calculus (4)
~	MATH 211.	Basic Concepts of Calculus (4)
2.	Mathematical	
	Four units cho	
	MATH 211.	Basic Concepts of Calculus (4)
	MATH 212.	Calculus II (4)
	MATH 302.	Problem Solving in Mathematics (4)
	· · · · · · · · · · · · · · · · · · ·	

	taken for credit by students who have received credit for		
	this course in category C1.		
3.	Life Science (	G.E.)	
	Five units cho	sen 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 E	Earth Sciences	
		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	
	0500 400	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. PHYS 221.	Basic Concepts of Physics I (5) General Physics I (5)	
5.	-	in Science and Technology (G.E.)	
J.	Two units cho	<b>C</b> , ( )	
	BIOL 216.	Genetics and Society (2)	
	BIOL 217.	Biology of Sexually Transmitted Diseases (2)	
	CHEM 105.	Chemicals in Our Environment (2)	
	CSCI 129.	Science, Computing and Society (2)	
	GEOL 205.	Volcanic Hazards, Surveillance and	
		Prediction (2)	
	GEOL 210.	Earthquakes: Science and Public Policy (2)	
6.	Mathematics a	and Natural Sciences Electives	
	Eight units, at	least four units of which must be upper-division,	
		biology, chemistry, computer science, geology,	
		e, mathematics, natural sciences or physics cours-	
		y not be received for both CSCI 121 and 127. At	
		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.		pstone in the Natural Sciences (G.E.)	
	Four units cho NSCI 300.	Science and Technology (4)	
	NSCI 300.	The Environment and Human Survival (4)	
	NSCI 314.		
	NSCI 315.	Natural Disasters (4)	
	NSCI 320.	Energy (4)	
	NSCI 325.*	Perspectives on Gender (meets the	
	1001020.	requirement in category F1) (4)	
	NSCI 351.	Health and Human Ecology (4)	
	NSCI 360.	Legacy of Life (4)	
D.		ehavioral Sciences Breadth Area (32 units)	
1.		ory and Civilization (G.E.)	
	Four units cho		
	HIST 146.	American Civilization (4)	

Note: MATH 211. Basic Concepts of Calculus may not be

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)
    - The American History, Constitution, State and Local Note: 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.

# 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: B.6, C.7, or D.6. HUM 325. Perspectives on Gender (4) HUM 335. The Origin and Contemporary Role of Latino Culture (4) The Cultures of American Childhood (4) HUM 350. HUM 370. African Heritage in the Arts (4) HUM 375. The World of Islam (4) HUM 380. Comparative Studies in the Arts: East and West (4) Perspectives on Gender (4) NSCI 325. Race and Racism (4) SSCI 316. SSCI 325. Perspectives on Gender (4) SSCI 350. Roots of Modern Racism in America (4) Upper-division general education elective courses that satisfy the 2. Multicultural/Gender requirement: ANTH 325. Human Biological 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) Political Economy of Poverty and ECON 352. 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) Philosophy of Race and Gender (4) PHIL 364. Gender and Philosophy (4) PHIL 367. PA 305. Organizations in Multicultural and Diverse Societies (4) African American Theatre and Drama (4) TA 462. TA 463. Asian Theatre (4)
- Concentrations (20 units) G.

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:

Anthropology Art Art. Music and Theatre for Teachers Biology Chemistry Chicano/a and Latino/a Studies **Communication Studies Computer Science** Dance Economics English French Geography Geology German

Health Science History Human Development Kinesiology (no activity courses) Latin American Studies Mathematics Music Physics **Political Science** Psychology Sociology Spanish TESL (Teaching English as a Second Language) Theatre Arts

Women's Studies

- World Cultures (G.E.) 3.
  - 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) World Civilizations III, the Expansion of HIST 144. Europe (4)
  - SSCI 165. Regions and Peoples of the World (4)
- Discipline Perspectives (G.E.) 4.

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)	
PSYC 100.	Introduction to Psychology (4)	
SOC 100.	The Study of Society (4)	
WSTD 100.	Introduction to Women's Studies (4)	
<u> </u>		

- 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.
- Integrative Capstone in the Social and Behavioral 6. Sciences (G.E.)

Four units chosen from:

- SSCI 300. Nonwestern World (4)
- Contemporary Latin America (4) SSCI 304.
- SSCI 315. Cultural Adaptation: The Quest for Survival (4) Race and Racism (meets the requirement in SSCI 316.*
- 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 345. Religious Expression in America (4) SSCI 350.* Roots of Modern Racism in America (4) (meets the requirement in Category F1)

*Meets the Multicultural Requirement for GE. Students should choose one * course in category B6, C& or D6. Credit can be received once for Hum 325, NSCI 325, or SSCI 325.

- Lifelong Understanding (6 units) Ε.
- The Whole Person-physical and physiological issues (G.E.) 1
  - KINE 205. Foundations for Lifetime Fitness and Wellness (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)
- Physical Education (G.E.) 3.
  - 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)
    - Aquatic Activities (2) KINE 137.
    - A Fitness Odyssey (2) KINE 147. Independent Activity Project (2) KINE 149.

    - KINE 150. Dance Activities (2)

# MANAGEMENT

#### Department of Management

Jack Brown Hall, Room 461

Elisabeth Ryland

(909) 537-5731 http://www.cbpa.csusb.edu/management/

**FACULTY:** Melissa Bakeman-Hartmann, Jace Baker, G. R. Bassiry, Shel Bockman, Karen Dill Bowerman, Foad Derakhshan, Donald Drost, Sue Greenfeld, Lee Hanson, Jeanne King, Steve Levy (Emeritus), Janice Loutzenhiser, Patrick McInturff (Chair), Clark Molstad, Gary Patterson, Lloyd Peake, Patricia Reed, Ernesto Reza, Jim Rogers (Emeritus),

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, Entrepreneurial Management, and the B.S. in International Business. The details of these programs are listed under Administration on Page 69. The Master of Business Administration can be found on Page 343. 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 20.

# 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 90 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 guarter. 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=F1) (4 units)

#### 307. Introduction to Transportation Management

Examines the evolution of major transportation modes: air, water, rail, and truck, including their historical and technological evolution and their economic and operational characteristics. Plans for negotiating prices and services with carriers are discussed. (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)

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#### 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. Pre-requisite: 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)

#### 432. 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: MATH 305 or 350 or PSYC 210 or SCM 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)

#### 450. Logistics Management and Regulation

Covers documentation and compliance requirements in logistics operations between two or more organizations. Examines impact and contexts of political pressures on the regulatory process, including regulations by local, state, and national governments as well as international bodies. Prerequisite: MGMT 307. (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 MATH 305, PSYC 210, SCM 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 college capstone course develops an overall general manager's perspective of strategic management and competitive strategy integrating knowledge from accounting, finance, information and decision sciences, production, management, marketing, and public policy. Coverage includes competitive strategy for global, national and regional/local business and managerial concerns regarding social and environmental issues. Emphasis is on cases, small-group work, and preparation of required business plan. Prerequisites: completion of the upper-division administration core courses (one course may be taken concurrently), 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)

#### 242 / Management

#### 520. Legal Regulation of Intellectual Property

Analysis of federal, state and international law on intellectual property and technology, including principles of contract law, intellectual law, taxation law, tort law, anti-trust law and criminal law with respect to technology and intellectual property. Prerequisites: MGMT 230 and 330. (4 units)

#### 531. Sports Management

Theory and analysis of the factors, participants, evaluation methods of modern sports and entertainment management. (4 units)

#### 533. Sports and Hospitality Business Law

Legal issues and policies impacting sports management and business, including contracts, labor law, negotiations and constitutional issues integral to the field of sports and hospitality management. (4 units)

#### 541. Commercializing Entrepreneurial Innovation

Examines the process of commercializing innovations and emerging technologies in entrepreneurial driven companies. Focus on understanding the strategy, tactics and behaviors necessary to manage the transition from basic development stages to commercial venture, examining the role of innovation assessment, intellectual property protection, technology transfer and licensing. (4 units)

#### 543. Entrepreneurial Opportunity Analysis

Process of defining and identifying the difference between ideas and opportunities including the role of the entrepreneur, ideas, pattern recognition, and the evaluation and screening process that leads to successful commercialization of business concepts and ideas. (4 units)

#### 545. Entrepreneurial Resource Requirements

Strategies and techniques employed by entrepreneurs to identify and access critical resources. Special emphasis on marshalling internal and external resources such as advisors, board of directors, and social networks. (4 units)

#### 547. Managing a Growing Business

Study of the basic strategy and tactics to manage growing enterprises while still maintaining an entrepreneurial spirit. Examines the role of management decision making, management control systems, short- and long-term planning, and entrepreneurship in managing growing companies. (4 units)

#### 549. Launching the Entrepreneurial Venture

Process and methods involved in starting and growing new enterprises with emphasis on the attributes of entrepreneurs, entrepreneurial careers and positioning an enterprise for sustainable growth. (4 units)

#### 575. Internship in Management

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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

Intensive study of some phase of management to be developed by the instructor. May be repeated for credit as topics change. (2 to 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. (2 or 4 units)

#### 998. Management Portfolio Assessment

Submission of a portfolio based on departmental guidelines. Prerequisites: completion of or concurrent enrollment in all management concentration courses. (0 units)

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# MARKETING

# **Department of Marketing**

Jack Brown Hall, Room 458 (909) 537-5749 http://www.cbpa.csusb.edu/marketing/

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 69 and the Master of Business Administration can be found on Page 343. 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 20.

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 90 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)

#### 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. 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 decisionmaking 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. Prerequisite: MKTG 305 or consent of instructor. (4 units)

#### 450. Logistics

Science of movement, storage, delivery and distribution. Topics include channels of distribution, purchasing, customer service, inventory types and functions. Prerequisite: MKTG 305. (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)

#### 244 / Marketing

#### 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)

#### 525. Sports and Entertainment Marketing

Examination of the theoretical and practical aspects of marketing management in the sports and entertainment industry. Formerly a topic under MKTG 590. (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. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (1 to 5 units)

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# MATHEMATICS

#### Department of Mathematics

Jack Brown Hall, Room 370 (909) 537-5361 http://www.math.csusb.edu/

#### **Bachelor of Arts**

**Mathematics** Mathematics - Teaching Track

#### **Bachelor of Science**

Mathematics

#### **Teaching Credential Program**

**Mathematics** 

#### Minor

**Mathematics** 

#### Master of Arts

**Mathematics** 

(Degree requirements can be found on Page 445.)

#### Master of Arts in Teaching

Mathematics

(Degree requirements can be found on Page 446.)

#### Certificate Programs

Introductory Actuarial Science **Teaching Basic Mathematics** 

FACULTY: Susan Addington, Jovce Ahlgren, Joseph Chavez, Nadia Dyakevich, Hajrudin Fejzic, Davida Fischman, Christopher Freiling, Gary Griffing, J. Terry Hallett, Ilseop Han, Zahid Hasan, Yuichiro Kakihara, Min-Lin Lo, 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 offers two graduate degrees. The Master of Arts degree emphasized mathematical content courses and is appropriate for those planning a career in teaching at the junior college level, or those considering further graduate work. The Master of Arts in Teaching offers a curriculum of combined mathematics and pedagogy courses, making it ideal for middle and high school mathematics teachers. The emphasis is on deepening and broadening the student's knowledge of the mathematics that underlies the high school curriculum. Core courses for both programs are offered in the evening to accommodate the working student. For information on these dearees, see Page 445

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 20.

#### **B.A. IN MATHEMATICS**

### **Requirements (74 units)**

#### Total units required for graduation: 180 **Requirements for the B.A. in Mathematics:** Lower-division requirements (30 units) 1. Four units chosen from: CSCI 201. Computer Science I (4) CSCI 240. FORTRAN Programming (4) Basic Concepts of Calculus (4) 2. MATH 211. MATH 212. 3 Calculus II (4) 4 MATH 213. Calculus III (4) Problem Solving in Calculus (2) 5. MATH 241. 6. MATH 251. Multivariable Calculus I (4) Multivariable Calculus II (4) MATH 252. 7. 8. MATH 270. Elementary Differential Equations (4) Upper-division requirements (32 units) 1. MATH 329. Transformation Geometry (4) MATH 331. Linear Algebra (4) 2. MATH 345. Number Theory and Proof (4) 3. MATH 355. 4 Analysis and Proof (4) MATH 372. Combinatorics (4) 5 6 MATH 465. Probability Theory (4) 7. MATH 545. Abstract Algebra I (4) 8. MATH 553. Analysis I (4) Electives (12 units) Twelve units of mathematics electives chosen from the following 1 in consultation with an advisor:

MATH 320. Mathematical Interest Theory (4)

May choose only one of the following two courses:

- Mathematical Methods of Physics I (4) MATH 373.
- PHYS 373. Mathematical Methods of Physics I (4)
- Introduction to Mathematical Logic (4) MATH 411.
- MATH 470. Ordinary Differential Equations (4)
- May choose only one of the following two courses:
  - Mathematical Methods of Physics II (4) MATH 473.
  - 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)
- Introduction to Point-Set Topology (4) MATH 555.
- 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)
- MATH 595D. Independent Study (4)

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#### 246 / Mathematics

	HEMATICS - Teaching Track	
Requirements	(89 units)	
	uired for graduation: 180	
This program is awaiting approval as a single subject teaching credential program. Contact the department for details.		
Requirements Teaching Trac	s for the B.A. in Mathematics - ck:	
Lower-division red	quirements (25 units)	
1. MATH 199.	Technology in Math Education through Problem Solving (3)	
2. MATH 211.	Basic Concepts of Calculus (4)	
3. MATH 212.	Calculus II (4)	
4. MATH 213. 5. MATH 241.	Calculus III (4) Problem Solving in Calculus (2)	
6. MATH 241.	Multivariable Calculus I (4)	
7. MATH 252.	Multivariable Calculus II (4)	
Upper-division red	quirements (52 units)	
1. MATH 329.	Transformation Geometry (4)	
2. MATH 331.	Linear Algebra (4)	
3. MATH 345.	Number Theory and Proof (4)	
4. MATH 355.	Analysis and Proof (4)	
5. MATH 372. 6. MATH 399.	Combinatorics (4) Service Learning Experience in Mathematics (2)	
7. MATH 465.	Probability Theory (4)	
B. MATH 480.	Topics in History of Mathematics (4)	
9. MATH 499.	Mathematics in the Secondary Classroom (4)	
10. MATH 529.	Advanced Geometry (4)	
11. MATH 545.	Abstract Algebra I (4)	
12. MATH 553.	Analysis I (4)	
13. MATH 565.	Mathematical Statistics (4)	
14. MATH 599.	Senior Seminar for Future Mathematics Educators (2)	
Electives (12 unit	s)	
<ol> <li>Twelve units of advisor:</li> </ol>	chosen from the following in consultation with an	
MATH 270.	, , , ,	
MATH 320.	Mathematical Interest Theory (4)	
May choose o MATH 37	only one of the following two courses:	
	<ol> <li>Mathematical Methods of Physics I (4)</li> <li>Mathematical Methods of Physics I (4)</li> </ol>	
MATH 411.	Introduction to Mathematical Logic (4)	
MATH 470.	Ordinary Differential Equations (4)	
May choose of	only one of the following two courses:	
MATH 47	, , , , , , , , , , , , , , , , , , , ,	
PHYS 47	<b>,</b> ()	
MATH 474.	Numerical Methods (4)	
	Topics in Mathematics (4) Abstract Algebra II (4)	
MATH 510.		
MATH 546.		
	Analysis II (4) Introduction to Point-Set Topology (4)	
MATH 546. MATH 554.	Analysis II (4)	
MATH 546. MATH 554. MATH 555. MATH 557.	Analysis II (4) Introduction to Point-Set Topology (4) Complex Variables (4) only one of the following two courses:	
MATH 546. MATH 554. MATH 555. MATH 557. May choose of MATH 57	Analysis II (4) Introduction to Point-Set Topology (4) Complex Variables (4) only one of the following two courses: 3. Mathematical Methods of Physics III (4)	
MATH 546. MATH 554. MATH 555. MATH 557. May choose of MATH 57 PHYS 57	Analysis II (4) Introduction to Point-Set Topology (4) Complex Variables (4) only one of the following two courses: 3. Mathematical Methods of Physics III (4) 3. Mathematical Methods of Physics III (4)	
MATH 546. MATH 554. MATH 555. MATH 557. May choose of MATH 57	Analysis II (4) Introduction to Point-Set Topology (4) Complex Variables (4) only one of the following two courses: 3. Mathematical Methods of Physics III (4)	

### **B.S. IN MATHEMATICS**

#### Requirements (105 units)

#### Total units required for graduation: 186

#### Requirements for the B.S. in Mathematics:

Lower-division requirements (35 units)

- 1. Four units chosen from: CSCI 201. Computer Science I (4) CSCI 240. FORTRAN Programming (4) 2. MATH 211. Basic Concepts of Calculus (4) 3. MATH 212. Calculus II (4) 4. MATH 213. Calculus III (4) 5. MATH 241. Problem Solving in Calculus (2) 6. MATH 251. Multivariable Calculus I (4) 7. MATH 252. Multivariable Calculus II (4) 8. MATH 270. Elementary Differential Equations (4) 9. PHYS 221. General Physics I (5) Upper-division requirements (32 units) 1. MATH 329. Transformation Geometry (4) MATH 331. Linear Algebra (4) 2. Number Theory and Proof (4) 3. MATH 345. MATH 355. Analysis and Proof (4) 4. 5. MATH 372. Combinatorics (4) MATH 465. Probability Theory (4) 6. 7. MATH 545. Abstract Algebra I (4) 8. MATH 553. Analysis I (4) Electives (38 units) Sixteen units of mathematics electives selected from the follow-1. ing with at least eight units chosen from 500-level courses: 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) Introduction to Point-Set Topology (4) MATH 555. 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) MATH 595D. Independent Study (4)
- 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. Current students must complete the program no later than July 1, 2009. Upon approval, the B.A. in Mathematics, Teaching Track will be the ap-

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proved single subject teaching credential program. Contact the Department for more information. 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 142 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)

- 1. 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)
- 2. MATH 211. Basic Concepts of Calculus (4)
- 3. MATH 212. Calculus II (4)
- 4. MATH 213. Calculus III (4)
- 5. MATH 251. Multivariable Calculus I (4)
- 6. MATH 252. Multivariable Calculus II (4)
- Upper-division requirements (12 units)
- 1. 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:

- 1. 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. See Page 55 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

 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)

- MATH 301A. Fundamental Concepts of Mathematics for Educators: Fundamentals of Arithmetic and Geometry (4)
- 2. MATH 302. Problem Solving in Mathematics (4)
- MATH 499. Mathematics in the Secondary Classroom (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 Pythogorean 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)

#### 248 / Mathematics

#### (FWS) 80. Fundamental Algebra

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

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

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=B1) (MATH 110=CAN MATH 10) (4 units)

#### 115. The Ideas of Mathematics

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=B1) (MATH 115=CAN MATH 2) (4 units)

#### 120. Pre-Calculus Mathematics

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=B1) (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=A4) (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=B1) (4 units)

#### 199. Technology in Math Education through Problem Solving

Exploration of central ideas in secondary school mathematics through problem solving using technology. Introduction to the use of three types of software: dynamic geometry, spreadsheet, and computer algebra systems. Materials fee required. Prerequisite: MATH 120 or equivalent (3 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=B1) (MATH 211+212+213=CAN MATH SEQ B) (4 units)

#### 212. Calculus II

(FWS)

(FWS)

(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

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

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. Fundamental Concepts of Mathematics for Educators (FWS)

A mathematics sequence for future teachers, containing fundamental concepts of number sense, algebra, and geometry. May not be counted toward fulfilling requirements in the mathematics major.

Fundamental Concepts of Arithmetic and Geometry. Mathemati-Α. cal reasoning behind the structure and arithmetic of real numbers. Connections between numbers and geometry. Introduction

С

S

(FWS)

(FWS)

(FWS)

(FWS)

to functions and graphs as a natural extension of arithmetic. May not be taken for credit by students who have completed Math 301. Prerequisites: completion of Math 115 and the general education requirements in written communication, oral communication and critical thinking. Graded ABC/no credit. (4 units)

- B. Transition from Concrete to Abstract in Algebra and Geometry. Algebra in context, algebraic techniques, proportion. Linear functions and their graphs. Angle, shape, size, polygons, and circles. Congruence and similarity. Graded ABC/no credit. Prerequisites: completion of MATH 301A (or 301), with a course grade of at least "C." (4 units)
- C. Further Developments in Algebra and Geometry. The arithmetic and graphs of polynomial and rational functions. Scientific notation, logarithmic and exponential functions. Polygons, tessellations, and transformations. Polyhedra, spheres, cylinders, cones. Transformations in graphs. Graded ABC/no credit. Prerequisite: completion of MATH 301B with a course grade of at least "C." (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)

#### 303. Geometry in Two and Three Dimensions for Teachers

Geometric figures, constructions and transformations in two and three dimensions. Development of axiomatic geometry and subsequent study of axiomatic systems from a historical perspective; students create proofs in solving geometry problems. Algebraic approach contrasted with Euclidean. Includes hands-on activities, emphasizes connection to disciplines such as art and geography. Teaching methods, integrated throughout, stress transition from concrete to abstract, use of geometric construction tools including computers where appropriate, visualization of transformations and their application in problem solving as well as assessment of student work. (6 units)

#### 304. Algebra for Teachers

Polynomials and rational functions, analogy between arithmetic and algebra. Linear, quadratic, and rational equations and inequalities and their graphs; rational exponents, geometric series, exponential functions and their graphs. Algebra presented more as a way of thinking than as a collection of algorithms. Emphasis on solution of verbally stated problems. Teaching methods, integrated throughout, focus on transition from concrete to abstract, pattern recognition and discovery, appropriate use of calculators and computers, and assessment of student work. Prerequisite: B.A. or B.S. degree from an accredited institution. (6 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)

#### 308. Problem Solving Through Theory and Practice

Heuristic techniques in solving contextual problems from algebra, number theory, geometry, logic, probability and statistics. May not be counted toward fulfilling requirements in the mathematics major. May not be taken for credit by students who have completed MATH 302. Two hours seminar. Prerequisite: MATH 301C with a grade of at least "C" or consent of instructor. (2 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)

#### 329. Transformation Geometry

Development of Euclidean plane geometry in terms of congruence and similarity transformations. Classification of affine transformations with applications to classical theorems. Introduction to inversive transformations and related constructions. Prerequisites: MATH 251 and high school geometry or equivalent. (4 units)

#### 331. Linear Algebra

Vector spaces over a field, linear dependence, dimension; matrices and systems of linear equations; special matrices and canonical forms; characteristic values and vectors; diagonalization of quadratic 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)

(FWS)

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)

#### 250 / Mathematics

### 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. (1 to 4 units)

### 399. Service Learning Experience in Mathematics

Supervised learning experience in the secondary mathematics classroom. Observation and participation that provides future teachers with first-hand experience and the opportunity to link their undergraduate mathematics course work with classroom experience. Includes weekly meetings on campus (one hour per week) and observation in a secondary classroom (20 hours). Graded A, B, C/no credit. Prerequisite: MATH 329. (2 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, Chebychev's inequality, law of large numbers and other topics. Prerequisites: MATH 252 and 372. (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 270 and 331. (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

Exploration of the historical and topical development of interconnected areas of mathematics, such as algebra, geometry and analysis. Discussion of the influence of culture and society on the development of mathematical ideas and discovery will be included. Prerequisites: MATH 252, 329, 345 and 355. (4 units)

#### 499. Mathematics in the Secondary Classroom

Instruction in the methods and materials for teaching mathematics in the secondary classroom, with emphasis on algebra and geometry. Each student will complete and present a project relating advanced mathematics to the high school curriculum that implements ideas and strategies presented in this course. May not be counted toward fulfilling requirements of the B.A. (Non-Teaching Track), B.S., M.A. or M.A. in Teaching, Mathematics. Prerequisites: MATH 329, 331 and 399. (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 329, 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. (1 to 4 units)

#### 599. Senior Seminar for Future Mathematics Educators

Summative assessment of subject matter competence for prospective mathematics teachers. Each student will complete and present a project relating advanced mathematics to the high school curriculum, and complete and submit a portfolio of their undergraduate work in mathematics for assessment. Meets four hours per week during the first week and the last four weeks of the quarter. Graded A,B,C/no credit. Prerequisites: MATH 199, 480 and 499. (2 units)

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# MILITARY SCIENCE PROGRAM (ARMY ROTC)

# **Military Science Office**

Temporary Offices, Room 141 (909) 537-5533 www.csusbarmyrotc.com Military Science Program

#### FACULTY: LTC H. Schleuning, SFC M. Zarate, MAJ R. Kirkland

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 \$350-400 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.

2.

Co	mputer Lite	racy
Fοι	ur units cho	sen from one of the following four options:
Α.	CSCI 129.	Science, Computing and Society (2)
	and	
	CSCI 123.	Using Computer Software (2)
В.	CSCI 129.	Science, Computing and Society (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 102.	Introduction to Information Technology (2)
	INFO 103.	Using Information Technology
		Applications (2)
Wri	tten Comm	unications Skills
Fοι	ur units cho	sen from:
ED	UC 306.	Expository Writing for Education (4)
ΕN	G 306.	Expository Writing (4)
ΗU	M 306.	Expository Writing for the Humanities (4)
MG	MT 306.	Expository Writing for Administration (4)
	<b>.</b>	

- NSCI 306. Expository Writing for the Natural Sciences (4) SSCI 306. Expository Writing for the Social Sciences (4)
  Military History HIST 603. Seminar in Modern Military History (4) Other classes may be substituted for those listed in each cate-
- gory 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.

 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 (12 units) 1. Computer Literacy

Four units chosen from one of the following four options:

- A. CSCI 129. Science, Computing and Society (2) and
- CSCI 123. Using Computer Software(2) B. CSCI 129. Science. Computing and Socie
  - CSCI 129. Science, Computing and Society (2) and
- CSCI 124. Exploring the Information Superhighway (2)
- C. CSCI 298. Application Software Topics (2) for a total of
  - (4) as topics change

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#### 252 / Military Science Program (Army ROTC)

	D. INFO 102 INFO 103		
2.	Written Comm	nunications Skills	
	Four units cho	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 Histor	y y	
	HIST 603.	Seminar in Modern Military History (4)	
	Other classes	s may be substituted for those listed in each cate-	
ao	rv upon approv	al 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 juniorlevel officers. Prerequisite: consent of instructor. (2 units)

#### 453. Senior Leadership Seminar

Leadership and management problems encountered in a companysized 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**

Accredited by the National Association of Schools of Music (NASM)

#### **Department of Music**

Performing Arts Building, Room 111 (909) 537-5859

#### **Bachelor of Arts**

Music with emphases in: Music Education Performance/Composition General Music Studies Music Technology Musical Theatre Ethnomusicology Music History

# **Teaching Credential Program**

# Music

Minor

Music Recording Arts

FACULTY: Edward Bostley (Emeritus), Andrew Crane,

Robert Dunham (Chair), Loren Filbeck (Emeritus), Robert Knop, Larry McFatter, Eva Mae Pisciotta, Jerrold Pritchard (Emeritus), 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), 2) a piano proficiency audition, and 3) an applied music audition (performance proficiency equal to collegiate applied music at the 140-145 level).

Students entering the Composition or Technology Emphasis 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 or technology instruction.

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. Students accepted into the Performance/Composition Emphasis will be required to present a junior recital or project. The presentation of a recital or project 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.

All music majors are required to participate in one of the three major music ensembles each quarter until graduation.

#### **B.A. IN MUSIC**

#### Requirements (96 units)

# Total units required for graduation: 180

# Requirements for the B.A. in Music:

#### Music Theory (24 units)

- MUS 120. Theory I (3)
   MUS 121. Theory I Laboratory (1)
- 3. MUS 122. Theory II (3)
- 4. MUS 123. Theory II Laboratory (1)
- 5. MUS 320. Theory III (3)
- 6. MUS 321. Theory III Laboratory (1)
- 7. MUS 322. Theory IV (3)
- 8. MUS 323. Theory IV Laboratory (1)
- 9. MUS 324. Theory V (3)
- 10. MUS 325. Theory V Laboratory (1)
- 11. MUS 542. Studies in Musical Organization (4)

Music History (16 units)

- 1. MUS 304. History of Music I (4)
- 2. MUS 305. History of Music II (4)
- 3. MUS 306. History of Music III (4)
- 4. MUS 350. Music of World Cultures (4)

Conducting (2 units)

1. MUS 210. Conducting (2)

Additional Requirements

- 1. 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 credit by examination administered by the department.
- Nine units chosen from the student's area of study: MUS 140-145 (100-level Applied Study) (3) MUS 240-246 (200-level Applied Study) (3) MUS 340-346 (300-level Applied Study) (3)
- 3. Twelve units chosen from:
  - MUS 380. Chamber Orchestra (1)
  - MUS 381. Symphonic Band (1)
  - MUS 385. Concert Choir (1)

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.

4. Concert attendance:

Six quarters of MUS 998. Concert Attendance; at least eight Music Department concerts, recitals and related programs must be attended per quarter.

- 5. One unit chosen from:
  - MUS 598. Senior Project (1)
  - MUS 599. Senior Recital (1)
  - Note: If student chooses MUS 599 to fulfill the core requirement, MUS 440 level must be reached.
- 6. MUS 990. Music Comprehensive Assessment (0)

Emphases (31 units)

Thirty one units chosen from one of the following emphases:

#### Music Education Emphasis (31 units)

- 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)

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8.	MUS 204B.	Class Percussion II (1)
9.	One unit chose	
	MUS 206.	Class Voice (1)
	MUS 207.	Diction for Singers (1) (for voice emphasis
		students)
	MUS 208.	Vocal Music Literature (1)
	MUS 209. MUS 301.	Instrumental Music Literature (1) Choral Conducting (2)
	MUS 303.	Instrumental Conducting (2)
	MUS 382.	Chamber Music (1) for a total of (2)
	MUS 406.	Orchestration (2)
16.	MUS 408.	Arranging (2)
	MUS 410.	Music in the Elementary Schools (4)
	MUS 411.	Teaching Music in Secondary Schools (4)
19.	MUS 535.	Computer Studies for Music Teachers (2)
Pe	rformance/Con	nposition Emphasis (31 units)
1.	One unit chose	en from:
	MUS 208.	Vocal Music Literature (1)
~	MUS 209.	Instrumental Music Literature (1)
2.	Four units cho	
	MUS 266.	Introduction to Computer and Electronic
	MUS 267.	Music (4) Introduction to Studio Recording Techniques (4)
3.	Two units chos	
0.	MUS 301.	Choral Conducting (2)
	MUS 303.	Instrumental Conducting (2)
4.	MUS 406.	Orchestration (2)
5.	MUS 408.	Arranging (2)
6.	Four units cho	
	MUS 400.	Studies in Composers (4)
	MUS 402. MUS 426.	Studies in Genres (4) Studies in Music History (4)
7.	Applied Study	
		osen from one of the following:
	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
	MUS 443.	of (3)
	1003 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
	MUC 447	of (3)
8.	MUS 447. One unit chose	Applied Technology (1) for a total of (3)
0.	MUS 498.	Junior Project (1)
	MUS 499.	Junior Recital (1)
9.	Music Elective	
		of music courses related to the student's area of
		sition, instrumental, vocal, technology), subject to
	approval of ad	
Ge	neral Music St	udies Emphasis (31 units)
1.	MUS 266.	Introduction to Computer and Electronic
~		Music (4)
2.	Four units cho	
	MUS 351. MUS 352.	Latin American Music (4) African American Music (4)
	MUS 360.	Music in the United States (4)
3.	Four units cho	

- MUS 400. Studies in Composers (4)
- MUS 402. Studies in Genres (4)
- MUS 426. Studies in Music History (4)

- 4. MUS 528. Special Projects (2)
- Music Electives (9 units) Nine units of music courses, subject to approval of advisor.
- Electives (8 units)
   Eight units chosen from courses offered in the College of Arts and Letters which may include music courses, subject to approval of advisor.

#### Music Technology Emphasis (31 units)

- 1. MUS 266. Introduction to Computer and Electronic Music (4)
- 2. 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. MUS 429. Topics in Music Technology (4)
- 6. MUS 447. Applied Technology (1) for a total of (3)
- 7. MUS 528. Special Topics (4)

 Music Electives (4 units) Four units chosen from music courses, with approval of advisor.

#### **Musical Theatre Emphasis (31 units)**

- 1. Six units from A or B:
  - A. TA 251. Acting I: Games and Exercises (3)
  - TA 252. Acting II: Creating a Role (3)
  - B. TA 245. Beginning Theatre Movement (2)
  - TA 385. Acting for Non-Majors (4)
- 2. TA 131. Makeup for Stage and Screen (3)
- 3. DAN 300E. Dance Technique: Musical Theatre (2)
- Four units chosen from: MUS 401. Musical Theatre (4) TA 401. History of Musical Theatre (4)
- 5. 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)
- 6. MUS 302. Musical Theatre Production (2)
- 7. Two units chosen from:
- MUS 302. Music Theatre Production (2)

TA 320A. Performance Practicum: Main Stage (2) (when production is a musical)

- 8. Two units chosen from:
  - MUS 302. Musical Theatre Production (2)
  - MUS 387. Opera Workshop (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)
- 9. MUS 340. Upper-Division Voice I (1) for a total of (3)
- 10. Electives (3 units)

Three units of music, theatre arts, or dance courses with approval of advisor.

#### Ethnomusicology Emphasis (31 units)

- 1. MUS 267. Introduction to Studio Recording Techniques (4)
- 2. Four units chosen from:
  - MUS 308. Women in Music (4)
  - MUS 400. Studies in Composers (4)
  - MUS 401. Musical Theatre (4)
  - MUS 402. Studies in Genres (4)
  - MUS 426. Studies in Music History (4)
  - MUS 510. Special Topics in Music (4)

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- 3. Eight units chosen from:
  - MUS 351. Latin American Music (4)
  - MUS 352. African American Music (4)
- MUS 360. Music in the United States (4)
- 4. MUS 528. Special Projects (3) (used in preparation for senior project)
- 5. ANTH 102. Introduction to Anthropology: Culture and Society (4)
- Electives (8 units) Eight units of upper-division anthropology courses, subject to approval of advisor.

#### Music History Emphasis (31 units)

- 1. Eight units chosen from:
  - MUS 308. Women in Music (4)
  - MUS 400. Studies in Composers (4)
  - MUS 402. Studies in Genres (4)
  - MUS 426. Studies in Music History (4)
  - MUS 510. Special Topics in Music (4)
- 2. Eight units chosen from:
- MUS 351. Latin American Music (4)
- MUS 352. African American Music (4)
- MUS 360. Music in the United States (4)
- 3. MUS 528. Special Projects (3) (used in preparation for senior project)
- 4. HIST 394. Introduction to History (4)
- 5. Electives (8 units)
  - Eight units of upper-division history courses, subject to approval of advisor.

# TEACHING CREDENTIAL PROGRAM

Students wishing to be recommended for the single subject teaching credential in music must complete the core requirements and Music Education Emphasis 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 142 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 (2)
- 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:

MUS 120	Theory I (3) and
MUS 121.	Theory I Laboratory (1)
Music Majors	must substitute:
MUS 266.	Introduction to Computer and Electronic
	Music (4)
MUS 122.	Theory II (3) and
MUS 123.	Theory II Laboratory (1)
Music Majors	must substitute:
MUS 267.	Introduction to Studio Recording Techniques (4)
MUS 416.	Advanced Computer and Electronic Music (4)
MUS 427.	Advanced Studio Recording Techniques (4)
	MUS 266. MUS 122. MUS 123. Music Majors MUS 267. MUS 416.

- 5. Four units chosen from:
  - MUS 414. Commercial Arranging (4)
  - MUS 429A. Topics in Music Technology: 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 Music Majors, MUS 528.

# HONORS IN MUSIC

- To be awarded honors in Music, music majors must:
- 1. Achieve a university grade point average of 3.6 or higher;
- Achieve a Music Department grade point average of 3.8 or higher;
- Demonstrate superior ability in musical performance, composition or scholarship as determined by judgment of Music Department faculty. This may be based on a project, performance, competition, teaching or other activity on or off campus;
- 4. In special circumstances the department may grant honors to students who fail to meet all the above requirements, but have in some other way demonstrated exceptional achievement in the field of music.

# 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)

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#### 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. Prerequisites: 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. Prerequisites: 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=C1) (4 units)

#### 208. Vocal Music Literature

A survey of major works of solo and ensemble vocal literature. (1  $\ensuremath{\mathsf{unit}})$ 

#### 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=G2) (4 units)

#### 400. Studies in Composers

Intensive study in the life and works of a particular composer. Content will vary. May be repeated for credit as topics change. Prerequisite: MUS 306 or consent of instructor. (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 of a particular genre or form, such as symphony, concerto, oratorio, opera. Content will vary. May be repeated for credit as topics change. Prerequisite: MUS 306 or consent of instructor. (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)

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#### 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**=G2) (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)

#### 429. Topics in Music Technology

Areas of special interest in the field of music technology. May be repeated for credit as topics change. Prerequisite: MUS 416 or consent of instructor.

- A. Analog and Digital Synthesis. Formerly MUS 428. (4 units)
- B. Acoustics (4 units)
- C. Other (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. (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

- 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)

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#### 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)

#### 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. (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

Preparation and performance of major musical theater productions, including Broadway-styled musicals, opera, opera scenes, madrigal feasts, variety shows, and the like. May be repeated for credit. Total credit units that apply to any degree emphasis area are outlined in the specific catalog description for that emphasis. (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 and marching band techniques. Field work is included. Prerequisite: MUS 315 or consent of instructor. (4 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. (2 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 nine units of applied music. 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, and may be taken only with concurrent enrollment in one of the major performance ensembles.

For students planning a career in music education, it is strongly recommended that, in addition to the nine-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 a minimum of nine quarters while they are in residence. All applied music lessons constitute a one-half hour private instruction each week for the ten-week term.

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C S U 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 unit)

MUS 81. Preparatory Piano (1 unit)

MUS 82. Preparatory String Instrument

- A. Violin (1 unit)
- B. Viola (1 unit)
- C. Bass (1 unit)
- D. Guitar (1 unit)

MUS 83. Preparatory Wind Instrument

- A. Flute (1 unit)
- B. Clarinet (1 unit)
- C. Oboe (1 unit)
- D. Bassoon (1 unit)
- E. Saxophone (1 unit)
- MUS 84. Preparatory Brass Instrument
- A. Trumpet (1 unit)
- B. Horn (1 unit)
- C. Trombone (1 unit)
- D. Tuba (1 unit)

MUS 85. Preparatory Percussion (1 unit)

#### 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)

#### 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 140-145), a 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)

#### 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)

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#### 446. Upper-Division Composition II

One-half hour per week of private instruction. Prerequisites: placement audition and approval of music faculty. (1 unit)

#### 447. Applied Technology

Individual instruction in applied music technology 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 429. (1 unit)

#### 498. Junior Project

Independent study with applied instructor or principal instructor in area of emphasis. Prerequisites: junior standing and consent of department. Formerly MUS 992. (1 unit)

#### 499. Junior Recital

Preparation for recital with applied instructor. Prerequisites: junior standing, attained 300-level in applied study, and consent of department. Formerly MUS 995. (1 unit)

#### 598. Senior Project

Independent study with applied music instructor or principal instructor in area of emphasis. Prerequisites: senior standing and consent of department. Formerly MUS 993. (1 unit)

#### 599. Senior Recital

Preparation for recital with applied instructor. Prerequisites: senior standing, attained 400-level in applied study, and consent of department Formerly MUS 996. (1 unit)

## PERFORMANCE ORGANIZATIONS

Participation in performance organizations may be repeated for credit.

#### **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. Chamber Winds

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. (1 or 2 units)

Graduate level courses can be found on Page 449.

# NATURAL SCIENCES

#### **College of Natural Sciences**

Biological Sciences Building, Room 107 (909) 537-5300 http://nsci.csusb.edu/

The university offers courses of an interdisciplinary nature but no degree program under the natural sciences designation.

<b>COURSE OFFERINGS IN</b>		
NATURAL SCIENCES	(NSCI)	

#### Lower Division

#### 295. Special Projects in Natural Science

Individual investigation, research, study or survey of selected problems. Prerequisite: consent of instructor. (1 or 2 units)

#### 296. Special Projects in Natural Science

Individual investigation, research, study or survey of selected laboratory problems. Prerequisite: consent of instructor. (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**=B5) (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**=F1) (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**=B5) (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**=B5) (4 units)

#### 315. Natural Disasters

A consideration of natural processes such as volcanic eruptions, earthquakes, global sea level rise, slope failures, floods, wildland fires, meteoric impacts and severe forms of weather, that have had or may have disastrous consequences on both humans and the environment. Prerequisite: junior or senior standing. (**GE**=B5) (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**=B5) (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**=B5, G1) (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**=B5) (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**=B5) (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. (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. (1 to 5 units)

Graduate level courses can be found on Page 453.

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# NURSING

# **Department of Nursing**

Health and Physical Education, Room 215 (909) 537-5380 http://nursing.csusb.edu/index.asp

#### **Bachelor of Science**

Accredited by the Commission on Collegiate Nursing Education (CCNE) Nursing Nursing - R.N.

#### Master of Science

Community Health Nursing School Nurse (Degree requirements can be found on Page 454.)

FACULTY: Mary Cannon (Assistant Dean), Olivia Catolico, Ellen Daroszewski, Cheryl diPretero, Edna Domingo, Roger Harthrong, Susan McGee, Mary Molle (MSN Program Coordinator), Phyllis Nix, Pamela Osuri, Marcia Raines, Donna Rane-Szostak, Paul Wielenga, 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 Commission on Collegiate Nursing Education (CCNE), 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.

All new pre-nursing majors must attend a general advising session in the Nursing Department.

#### **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 a transfer student at the junior level. Diploma graduates may enter the university as "natural sciences undeclared (nursing) majors" while completing lower-division requirements.

See the B.S. in 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

#### Admission Requirements

- 1. Application must be submitted by March 1 for Fall term and November 1 for Spring term;
- 2. Completion of the ATI-TEAS pre-admission examination;
- 3. A minimum grade point average of 2.5 overall and 2.5 on prerequisite courses listed below;
- 4. Additional supplemental requirements for impacted programs include health care experience, second language competence and local service area residency.

#### **Department Regulations**

- 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.
- 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 current Health Insurance. See Department for instructions.
- 6. Students must have a current background check prior to their clinical experience. See Department for instructions.
- 7. Students must have access to insured transportation for their clinical experience.
- 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.)
- 9. Advisement with a faculty member is required prior to registration each quarter.
- 10. Students must participate in the department competency assessment program.

#### **Degree Requirements**

Prerequisite support courses required for admission:

- 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 208. Survey of Human Biochemistry (3)
- 6. COMM 120. Oral Communication (4)
- 7. One critical thinking course that satisfies category A4 in the General Education Program.
- 8. ENG 101. Freshman Composition (4)
- 9. One math course that satisfies category A3/B1 in the General Education Program.

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	pport courses r rsing major:	equired which may be taken after admission to the
1.	MATH 305.	Statistics: Hypothesis Testing and Estimation (4)
2.	PSYC 201.	Developmental Psychology (4)
3.	One integrativ	ve capstone course that meets the multicultural/ ement in the general education program (4)
Lov	wer-division rec	uirements (22 units)
1.	NURS 200.	Foundations of Nursing Process, Roles and Skills (4)
2.	NURS 201.	Foundations of Nursing Process, Roles and Skills: Laboratory (3)
3.	NURS 204.	Beginning Nursing Process, Roles and Skills (4)
4.	NURS 205.	Beginning Nursing Process, Roles and Skills: Laboratory (3)
5.	NURS 220.	Intermediate Nursing Process, Roles and Skills (4)
6.	NURS 221.	Intermediate Nursing Process, Roles and Skills: Laboratory (4)
Up	per-division rec	uirements (61 units)
1.	NURS 316.	Health Assessment (4)
2.	NURS 322.	Advanced Nursing Process, Roles and Skills (3)
3.	NURS 323.	Advanced Nursing Process, Roles and Skills: Laboratory (4)
4.	NURS 332.	Families and Children (4)
5.	NURS 333.	Families and Children: Laboratory (3)
6.	NURS 334.	Maternal Child and Women's Health (4)
7.	NURS 335.	Maternal Child and Women's Health: Laboratory (3)
8.	NURS 340.	Theories of Nursing (2)
9.	NURS 380.	Pathophysiological Concepts as Applied to
-		Nursing Practice (4)
10.	NURS 400.	Psych/Mental Health Nursing (4)
11.	NURS 401.	Psych/Mental Health Nursing: Laboratory (4)
12.	NURS 404.	Leadership in Nursing: Nursing Management (4)
13.	NURS 405.	Leadership in Nursing: Laboratory (4)
14.	NURS 406.	Community/Public Health Nursing (4)
15.	NURS 407.	Community/Public Health Nursing: Laboratory (4)
16.	NURS 422.	Nursing Research (4)
	NURS 425.	Issues and Trends in Nursing and Health Care (2)

# **B.S. IN NURSING - RN**

#### **Requirements (180 units)**

#### Total units required for graduation: 180

#### **Department Regulations**

- 1. Admission requirements
  - A grade point average of 3.0 ("B") or better in prerequisite support courses listed below;
  - A grade point average of 3.0 ("B") or better in the A.D.N. program or diploma program;
  - c. Submission of an active California Registered Nurse (RN) License;
  - d. Submission of RN screening form and all transcripts;
  - e. Application to CSUSB with second set of transcripts;
  - f. Students who are close to these standards may be admissible upon remediation.
- 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 63 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. CHEM 205. Fundamentals of Chemistry I: General Chemistry (5)
- 5. CHEM 208. Survey of Human Biochemistry (3)
- 6. COMM 120. Oral Communication (4)
- 7. One critical thinking course that satisfies category A4 in the General Education Program.
- 8. ENG 101. Freshman Composition (4)
- 9. One math course that satisfies category A3/B1 in the General Education Program.

Support courses required which may be taken after admission to the nursing major

- 1. MATH 305. Statistics: Hypothesis Testing and Estimation (4)
- 2. PSYC 201. Developmental Psychology (4)
- 3. One integrative capstone course that meets the multicultural/ gender requirement in the general education program (4)

#### **Sophomore Nursing Courses**

 Students holding a current California RN license will receive 20 units of advanced placement transfer credit for lower-division nursing courses. Credit for these lower division nursing courses is given upon submission of a current, active California RN License to the Nursing Department. The department will notify records of the license number.

#### **Junior Nursing Courses**

- 1. NURS 310. Transition to Baccalaureate Nursing Education (2)
- 2. NURS 316. Health Assessment (4)
- 3. NURS 340. Theories of Nursing (2)
- 4. NURS 380. Pathophysiological Concepts as Applied to Nursing Practice (4)

#### Senior Nursing Courses

1.	NURS 404.	Leadership in Nursing: Nursing
		Management (4)
2.	NURS 405.	Leadership in Nursing: Laboratory (4)
3.	NURS 406.	Community/Public Health Nursing (4)
4.	NURS 407.	Community/Public Health Nursing:
		Laboratory (4)
5.	NURS 410.	Transitional Concepts for Professional
		Nursing (2)
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 re-
	quirements. Th	wenty-one units of the major are part of the gen-
	eral education	requirements.

#### **DEPARTMENTAL HONORS**

A graduating senior will be awarded departmental honors in nursing after meeting the following requirements:

 Achieve a minimum grade point average of 3.6 in all upperdivision courses taken at the university;

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 A clear demonstration of the ability to do independent work in nursing and recommendation by the faculty of the Department of Nursing.

# COURSE OFFERINGS IN NURSING (NURS)

#### **Lower Division**

# 200. Foundations of Nursing Process, Roles and Skills

Introduction to nursing process and nursing role, including basic cognitive, psychomotor, interpersonal, and assessment skills. Prerequisites: sophomore standing, admission to nursing major; BIOL 220, 223 and 224; CHEM 205, 208; completion of G.E. requirements in critical thinking and mathematics or passing score on the Entry Level Mathematics examination; ENG 101; COMM 120. Corequisite: NURS 201. (4 units)

#### 201. Foundations of Nursing Process, Roles and Skills: Laboratory

Application of knowledge and skills from NURS 200. Care of clients in various settings who need a moderate level of nursing care. Materials fee required. Prerequisites: admission to nursing major and consent of department. Corequisite: NURS 200. (3 units)

# 204. Beginning Nursing Process, Roles and Skills

Theory and application of nursing process and nursing role with middlescent and older individuals and families of diverse psychosocial and cultural backgrounds. Prerequisites: NURS 200 and consent of department. Corequisite: NURS 205. (4 units)

#### 205. Beginning Nursing Process, Roles and Skills: Laboratory

Clinical experience in settings emphasizing physical and emotional care of middlescent and older adults needing a moderate level of care. Materials fee required. Prerequisite: consent of department. Corequisite: NURS 204. (3 units)

# 220. Intermediate Nursing Process, Roles and Skills

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. Pre-requisites: NURS 204 and consent of department. Corequisite: NURS 221. (4 units)

# 221. Intermediate Nursing Process, Roles and Skills: Laboratory

Application of knowledge and skills from NURS 220. Care of clients in subacute and acute care settings. Materials fee required. Formerly NURS 321. Prerequisite: consent of department. Corequisite: NURS 220. (4 units)

#### **Upper Division**

#### 310. Transition to Baccalaureate Nursing Education

Concepts related to transitioning from ADN to BSN nursing roles. Explores learning and technology skills, and competencies required of the professional nurse. Prerequisite: consent of the nursing department, active CA RN license. (2 units)

#### 316. Health Assessment

Determining and measuring variables relevant to assessment of psychosocial and physical health. Formerly NURS 223. Two hours lecture and six hours laboratory. Materials fee required. Prerequisites: NURS 200 and 201. (4 units)

#### 322. Advanced Nursing Process, Roles and Skills

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 400, 401 and consent of department. Corequisite: NURS 323. (3 units)

#### 323. Advanced Nursing Process, Roles and Skills: Laboratory

Application of knowledge and skills from NURS 322. Care of clients in subacute and acute care settings. Materials fee required. Prerequisite: 400, 401 and consent of department. Corequisite: NURS 322. (4 units)

#### 332. Families and 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 334 and 335 and consent of department. Corequisite: NURS 333. (4 units)

#### 333. Families and Children: Laboratory

Clinical experience in settings emphasizing care of families with children needing a moderate level of care. Materials fee required. Formerly NURS 331. Prerequisites: 334 and 335 and consent of department. Corequisite: NURS 332. (3 units)

#### 334. Maternal Child and Women's Health

Theory and application of nursing process and nursing role with childbearing families from diverse psychosocial and cultural backgrounds. Formerly NURS 330. Prerequisites: NURS 220, 221 and consent of department. Corequisite: NURS 335. (4 units)

#### 335. Maternal Child and Women's Health: Laboratory

Clinical experience in settings emphasizing care of childbearing families needing a moderate level of care. Materials fee required. Formerly NURS 331. Prerequisites: NURS 220, 221 and consent of department. Corequisite: NURS 334. (3 units)

#### 340. Theories of Nursing

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. (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)

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#### 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. Prerequisites: submission of a project proposal and consent of department chair prior to registration. (1 or 2 units)

#### 400. Psych/Mental Health Nursing

Principles of health promotion and chronic illness care with mentally and physically ill middlescent and older adults with diverse psychosocial and cultural backgrounds. Prerequisites: NURS 332, 333, 334, 335 and consent of department. Corequisite: NURS 401. (4 units)

#### 401. Psych/Mental Health Nursing: Laboratory

Application of knowledge and skills from NURS 400. Clinical experience in various ambulatory care settings with mentally and physically ill middlescent and older adults. Materials fee required. Prerequisites: NURS 332, 333, 334, 335 and consent of department. Corequisite: NURS 400. (4 units)

#### 404. Leadership in Nursing: Nursing Management

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

Clinical experience focusing on innovative nursing roles in various settings. Materials fee required. Prerequisite: NURS 406, 407 and consent of department. Corequisite: NURS 404. (4 units)

#### 406. Community/Public Health Nursing

Principles of health promotion and chronic illness care with young individuals and families of diverse psychosocial and cultural backgrounds. Formerly NURS 324. Prerequisites: NURS 322, 323, 400, 401 and consent of department. Corequisite: NURS 407. (4 units)

#### 407. Community/Public Health Nursing: Laboratory

Application of knowledge and skills from NURS 406. Clinical experience in community health agencies with young individuals and families. Materials fee required. Formerly NURS 325. Prerequisites: NURS 322, 323, 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: NURS 310 and consent of the department. Materials fee required. Corequisite: NURS 411. (2 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

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

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)

#### 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. Materials fee required. 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)

#### 550. Informatics for Advanced Practice Nursing

The nature and functions of nursing informatics to support advanced practice nursing and the delivery of care to communities. 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. (1 to 6 units)

#### 597. Issues and Trends in Advanced Practice Nursing

Examines major nursing issues, health care trends, health policies and their impact upon communities and aggregate populations from the perspective of advanced practice nursing. Explores issues such as allocation, poverty, homelessness, violence, substance abuse and changing disease patterns in relation to health care reform and the current social or political environment. Formerly NSCI 597. Prerequisite: graduate standing or consent of department. (4 units)

# CSUSB 2006-20

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# NUTRITION AND FOOD SCIENCES

Approved as a Didactic Program in Dietetics, by the American Dietetic Association (ADA)

# Department of Health Science and Human Ecology

Jack Brown Hall, Room 263 (909) 537-5340 http://health.csusb.edu/

#### **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 (112 units)**

## Total units required for graduation: 180 Requirements for the B.S. in Nutrition and

# Food Sciences:

**Note:** Certain required courses also apply in the university's general education program (See Page 63).

Lower-division requirements (50 units)

	Lower-division requirements (50 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.	HSCI 120.	Health and Society: An Ecological Approach (5)	
	8.	HSCI 225.	The Dietetic Profession (1)	
	9.	HSCI 244.	Introduction to Culinary Arts (2) or proof of	
			competency to be determined by faculty advisor	
	10.	HSCI 245.	Introduction to Food Science (5)	
	11.	HSCI 273.	Software Applications in the Health Sciences (3)	
12. Four units chosen from:				
		PSYC 100.	Introduction to Psychology (4)	
		SOC 100.	Introduction to Sociology (4)	
	Up	per-division req	uirements (62 units)	
	1.	HSCI 315.	Statistics for the Health Sciences (4)	
	2.		Advanced Food Science (5)	
		HSCI 350.	Principles of Nutrition (4)	
		HSCI 351.	Nutritional Biochemistry and Metabolism (4)	
	<del>.</del> 5.		Nutrition Throughout the Life Cycle (4)	
	ວ. ເ		Advanced Nutrition (2)	

- 6. HSCI 383. Advanced Nutrition (2)
- 7. HSCI 384. Nutrition Assessment and Research Methodology (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)
- HSCI 467. Foodservice Systems Management (4)
   Four units chosen from: MGMT 302. Management and Organizational Behavior (4) PSYC 302. Management and Organizational Behavior (4)
   NSCI 306. Expository Writing for the Natural Sciences (4) or
- completion of challenge examination
- 15. Eight units chosen from:
  - HSCI 344. Perspectives in International Nutrition (4)
  - HSCI 367. Human Disease Mechanism (4) HSCI 382. Nutrition for Health, Fitness and Sports (4)
  - HSCI 385. Cultural Foods: Traditions and Trends (4)
  - Other upper-division health science courses, except HSCI 342,

which may be taken with prior approval from a faculty advisor.

## 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.

See Page 191 for descriptions of HSCI courses.

# PHILOSOPHY

# Department of Philosophy

University Hall, Room 339

(909) 537-5869 cal.csusb.edu/Depts/Philosophy

#### Bachelor of Arts

Philosophy

Law/Ethics/Politics Emphasis

Philosophy of Religion/Religious Studies Emphasis

#### Minor

Philosophy

**FACULTY:** Jill Buroker, Matthew Davidson, Susan Finsen, Beverly Gallo, Thomas Moody, Chris Naticchia (Chair), Darcy Otto, Tony Roy

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's range of application is particularly 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 (57 units)

Total units required for graduation: 180

#### Requirements for the B.A. in Philosophy:

Upper-division requirements (57 units)

Οp			
1.	History of Phil Twelve units a	osophy (12 units) as follows:	
	PHIL 311.	Ancient Philosophy (4)	
		History of Modern Philosophy: Knowledge and Reality (4)	
	PHIL 314.	History of Modern Philosophy: Ethics and Politics (4)	
2.	Logic (4 units)		
		Predicate Logic (4)	
3.	Metaphysics/Language (4 units)		
	Four units chosen from:		
	PHIL 380.	Metaphysics (4)	
	PHIL 387.	Philosophy of Language (4)	
4.	Knowledge/Science (4 units)		
	Four units cho	osen from:	
	PHIL 385.	Theory of Knowledge (4)	
	PHIL 386.	Philosophy of Science (4)	
5.	Value Theory (4 units)		
	Four units chosen from:		
	PHIL 350.	Ethics (4)	
	PHIL 361A	Social and Political Philosophy: Classical Political Theories (4)	
	PHIL 361B.		

- 6. Advanced Issues (4 units)
- Four units chosen from:
  - PHIL 400. Advanced Issues in Logic (4)
  - PHIL 410. Advanced Issues in History of Philosophy (4)
  - PHIL 460. Advanced Issues in Value Theory (4)
  - PHIL 472.Advanced Issues in Philosophy of Religion (4)PHIL 485.Advanced Issues in Metaphysics and
- Knowledge (4) 7. Senior Project (1 unit)
- Phil 516. Senior Project (1)
- 8. Electives (24 units)

Twenty-four units chosen from philosophy courses with at most eight units 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. No 100- or 200-level course used to satisfy a General Education requirement will be included among courses which count toward the major. No course counts in more than one category of the major; however, for courses such as the Advanced Issues courses which can be repeated with different topics, the different topics may apply in different categories.

#### Law/Ethics/Politics Emphasis

Students pursuing the Law/Ethics/Politics Emphasis must substitute the following in categories 6 and 8 above:

- 6. Advanced Issues (4 units)
  - PHIL 460. Advanced Issues in Value Theory (4)
- 8. Electives (24 units)

Twenty-four units chosen from philosophy courses with at most eight units 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. In addition, courses in this category must include eight units chosen from:

- PHIL 350. Ethics (4)
- PHIL 359. Philosophy and Economics (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 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)
- PHIL 460. Advanced Issues in Value Theory (4)
- Four units chosen from:
- PHIL 354. Ethics in the Helping Professions (4)
- PHIL 355. Contemporary Ethical Issues (4)
- PHIL 356. Environmental Ethics (4)
- PHIL 358. Business Ethics (4)

No 100- or 200-level course used to satisfy a General Education requirement will be included among courses which count toward the major. No course counts in more than one category of the major; however, for courses such as PHIL 460 which can be repeated with different topics, the different topics may apply in different categories

#### Philosophy of Religion/Religious Studies Emphasis

Students pursuing the Philosophy of Religion/Religious Studies Emphasis must substitute the following in categories 6 and 8 above:

- 6. Advanced Issues (4 units)
- PHIL 472. Advanced Issues in Philosophy of Religion (4)
- 8. Electives (24 units)

Twenty-four units chosen from philosophy courses with at most eight units 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. In addition courses in this category must include 12 units chosen from:

- PHIL 312. Medieval Philosophy (4)
- PHIL 372. Philosophy of Religion (4)

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PHIL 373. World Religions (4)

PHIL 375. Non-Western Philosophy (4)

PHIL 472. Advanced Issues in Philosophy of Religion (4)

No 100- or 200-level course used to satisfy a General Education requirement will be included among courses which count toward the major. No course counts in more than one category of the major; however, for courses such as PHIL 472 which can be repeated with different topics, the different topics may apply in different categories.

- 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.
- 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 or minor in philosophy is an exceptionally flexible tool. All students should consult with an advisor in planning their course of study. Students interested in law or religion should consider elective courses from the emphases in Law/Ethics/Politics and and Philosophy of Religion/Religious Studies. And there are ways to organize electives around additional interests as well, for example:
- Graduate Study in Philosophy: Students planning to apply for graduate programs in philosophy should complete at least eight additional units of upper-division philosophy, and emphasize in electives additional courses from the core areas 1 through 6 above. Students may also need to pursue proficiency in one foreign language especially French, German, Latin, or Greek.
- 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, 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.

# 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 311. Ancient Philosophy (4)
  - PHIL 313. History of Modern Philosophy: Knowledge and Reality (4)
- PHIL 314. History of Modern Philosophy: Ethics and Politics (4)
- Advanced Issues in History of Philosophy (4) PHIL 410.
- 2. Metaphysics/Knowledge
  - Eight units chosen from:
  - PHIL 380. Metaphysics (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 460.	Advanced Issues in Value Theory (4)
	PHIL 350. PHIL 361A PHIL 361B.

4. Twelve units of electives chosen from philosophy courses; with at most four elective units at the 100- or 200-level; PHIL 200 must be included among these courses unless taken to satisfy the GE Critical Thinking (A4) requirement. No 100- or 200-level course used to satisfy a General Education requirement will be included among courses which count toward

the minor. No course counts in more than one category of the minor; however, for courses such as the Advanced Issues courses which can be repeated with different topics, the different topics may apply in different categories.

# 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:

- an overall grade point average of 3.0 ("B"); 1.
- 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 lowerdivision, not counting courses satisfying the general education reauirements.

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=E2) (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=A4) (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=C4) (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. Prerequisite: ENG 101 or equivalent. (GE=C4) (4 units)

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#### 270 / Philosophy

#### 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. Prerequisite: ENG 101 or equivalent. (GE=C4) (4 units)

#### 193. Introduction to Eastern Philosophy

Introduction to the ways in which Buddhism, Hinduism, Taoism and Confucianism view human life and reality. Prerequisite: ENG 101 or equivalent. (GE=C4) (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? Prerequisite: ENG 101 or equivalent. (**GE**=C4) (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**=A4) (4 units)

#### 206. 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 305. Prerequisites: satisfaction of the General Education Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

#### **Upper Division**

#### 300. Predicate Logic

Introduction to the standard predicate calculus. Some metatheory. This course requires some basic mathematical or logical background. Prerequisite: PHIL 200 or consent of instructor. (4 units)

#### 311. Ancient Philosophy

Introduction to the origin of Western philosophy, as represented in the works of the Pre-Socratics, Plato, Aristotle, the Stoics, Epicureans, Skeptics and Mystics. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

#### 312. Medieval Philosophy

Study of philosophical thought from the Neoplatonists up to Descartes. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

# 313. 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. Formerly PHIL 318. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

#### 314. 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 319. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

#### 315. History of Modern Philosophy: Knowledge and Reality II

Major philosophical developments in the Modern period of Western philosophy, focusing on the nature of knowledge and reality. A continuation of PHIL 313 featuring figures such as Locke, Leibniz and Berkeley. 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. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

#### 355. Contemporary Ethical Issues

An examination of contemporary moral issues such as abortion rights, capital punishment, animal treatment, environmental protection, business ethics, and military intervention. Specific topics will be determined by cases that universities nationwide are examining during the year the course is offered. Students who take this course will become eligible to represent CSUSB in state and national academic competitions. 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. 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)

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#### 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. 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)

#### 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**=G2) (4 units)

#### 367. Gender and Philosophy

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**=G2) (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 philosophical issues raised by their diversity. Prerequisites: satisfaction of the GE Critical Thinking (A4) and Philosophy (C4) requirements. (4 units)

#### 375. Non-Western Philosophy

Study of various philosophical issues that arise within non-Western world views such as Buddhism, Hinduism, Taoism, and Islam. 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. 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. 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. 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: satisfaction of departmental skills assessment test and 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 300level philosophy courses, satisfaction of the GE upper-division writing requirement, and satisfaction of skills assessment test. (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, satisfaction of the GE upper-division writing requirement, and satisfaction of skills assessment test. (4 units)

#### 472. Advanced Issues in Philosophy of Religion

Intensive study of topics in philosophy of religion. May be repeated for credit as topics change. Prerequisites: at least two 300-level philosophy courses, satisfaction of the GE upper-division writing requirement, and satisfaction of skills assessment test. (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, satisfaction of the GE upper-division writing requirement, and satisfaction of skills assessment test. (4 units)

#### 272 / Philosophy

#### 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; and satisfaction of the departmental skills assessment. (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. (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. (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. (2 to 4 units)

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# PHYSICS

#### Department of Physics

Physical Sciences Building, Room 119 (909) 537-5397 http://physics.csusb.edu/

## **Bachelor of Arts**

Physics

#### **Bachelor of Science**

Physics **Applied Physics** 

#### Minor

Physics **Applied Physics** 

FACULTY: Steven Barnes, Leo Connolly, Paul Dixon, Karen Kolehmainen, Susan Lederer, Paul Renteln (Chair), Javier Torner, Timothy Usher, Laura Woodney

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 enables students to complete the first two years of courses generic to engineering. Students 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.

Students considering a physics or pre-engineering major should call the department office for advising .

## **B.A. IN PHYSICS**

#### **Requirements (89 units)**

#### Total units required for graduation: 180

#### Requirements for the B.A. in Physics:

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Lo	ower-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.		General Physics I (5)	
9.	-	General Physics II (5)	
	. PHYS 223.	General Physics III (5)	
	. PHYS 224.	General Physics IV (3)	
	. PHYS 228.	General Physics V (3)	
Up	per-division rec	quirements (28 units)	
1.	MATH 331.	Linear Algebra (4)	
2.	PHYS 306.	Classical Mechanics I (4)	
3.		Electrodynamics I (4)	
	PHYS 322.	Quantum Mechanics I (4)	
5.		Statistical and Thermal Physics (4)	
6.		Mathematical Methods of Physics I (4)	
7.		Advanced Physics Laboratory (4)	
Ele	Elective course work (8 units)		
1.	<b>3</b> · · · · · · · · · · · · · · · · · · ·		
		the approval of the department:	
	PHYS 315.	Introduction to Modern Optics (4)	
	PHYS 370.	Introduction to Astrophysics (4)	
	PHYS 406.	Classical Mechanics II (4)	
	PHYS 414. PHYS 422.	Electrodynamics II (4)	
	PHYS 450.	Quantum Mechanics II (4) Introduction to Solid State Physics (4)	
	PHYS 450. 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: 182

#### **Requirements for the B.S. in Physics:**

Lower-division requirements (53 units)

- 1. CHEM 215. General Chemistry I: Atomic Structure and Chemical Bonding (6)
- General Chemistry II: Principles of Chemical 2. CHEM 216. Reactions (6)
- 3. MATH 211. Basic Concepts of Calculus (4)
- 4. MATH 212. Calculus II (4)
- Calculus III (4) 5. MATH 213.
- 6. MATH 251. Multivariable Calculus I (4)
- 7. MATH 252. Multivariable Calculus II (4)

S				
U S	8. PHYS 221.	General Physics I (5)		
B	9. PHYS 222.	General Physics II (5)		
D	10. PHYS 223.	General Physics III (5)		
2	11. PHYS 224.	General Physics IV (3)		
0	12. PHYS 228.	General Physics V (3)		
Ö	Upper-division requirements (44 units)			
6	1. MATH 331.	Linear Algebra (4)		
-	2. PHYS 306.	Classical Mechanics I (4)		
2	3. PHYS 313.	Electrodynamics I (4)		
0	4. PHYS 322.	Quantum Mechanics I (4)		
0	5. PHYS 324.	Statistical and Thermal Physics (4)		
7	6. PHYS 373.	Mathematical Methods of Physics I (4)		
	7. PHYS 406.	Classical Mechanics II (4)		
	8. PHYS 414.	Electrodynamics II (4)		
	<ol><li>9. PHYS 422.</li></ol>	Quantum Mechanics II (4)		
	10. PHYS 430.	Advanced Physics Laboratory (4)		
	11. PHYS 473.	Mathematical Methods of Physics II (4)		
	Electives (12 uni	ts)		
	•	hosen from upper-division physics courses n the approval of the department:		

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 450.	Introduction to Solid State Physics (4)
	PHYS 461.	Introduction to Nuclear Physics (4)
	PHYS 463.	Introduction to Elementary Particle Physics (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)
2.	2. Four units of computer science course work at the 200-leve	

above selected with the approval of the Physics Department.

#### **B.S. IN PHYSICS - APPLIED PHYSICS OPTION**

#### **Requirements (110 units)**

#### Total units required for graduation: 183

#### Requirements for the B.S. in Physics - Applied **Physics Option:**

Lower-division requirements (62 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.	CSCI 201.	Computer Science I (4)
4.	MATH 211.	Basic Concepts of Calculus (4)
5.	MATH 212.	Calculus II (4)
6.	MATH 213.	Calculus III (4)
7.	MATH 251.	Multivariable Calculus I (4)
8.	MATH 252.	Multivariable Calculus II (4)
9.	PHYS 150.	Introductory Electronics (5)
10.	PHYS 221.	General Physics I (5)
11.	PHYS 222.	General Physics II (5)
12.	PHYS 223.	General Physics III (5)
13.	PHYS 224.	General Physics IV (3)
14.	PHYS 228.	General Physics V (3)
Upper-division requirements (44 units)		
1.	MATH 331.	Linear Algebra (4)
2.	PHYS 306.	Classical Mechanics I (4)

- 3. PHYS 313. Electrodynamics I (4)
- 4. PHYS 322. Quantum Mechanics I (4)
- 5. PHYS 324. Statistical and Thermal Physics (4)
- 6. PHYS 350. Data Acquisition and Control (4)

- 7. PHYS 352. Advanced Electronics (4) 8. PHYS 373. Mathematical Methods of Physics I (4) 9. PHYS 414. Electrodynamics II (4) 10. PHYS 430. Advanced Physics Laboratory (4) Introduction to Solid State Physics (4) 11. PHYS 450. Electives (4 units) 1. 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. Classical Mechanics II (4) PHYS 422. Quantum Mechanics II (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)

### 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.	Classical Mechanics I (4)

- 2. PHYS 313. Electrodynamics I (4)
- 3. PHYS 322. Quantum Mechanics I (4)
- PHYS 324. Statistical and Thermal Physics (4) 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)
- MATH 211. Basic Concepts of Calculus (4) 2
- Calculus II (4) 3. MATH 212.
- 4. MATH 251. Multivariable Calculus I (4)
- PHYS 150. Introductory Electronics (5) 5.
- PHYS 221. General Physics I (5) 6.
- General Physics II (5) 7. PHYS 222.
- 8. PHYS 223. General Physics III (5)
- 9. PHYS 224. General Physics IV (3)
- General Physics V (3) 10. PHYS 228.

Upper-division requirements (12 units)

- 1. PHYS 350. Data Acquisition and Control (4)
- PHYS 352. Advanced Electronics (4) 2.
- Mathematical Methods of Physics I (4) 3. PHYS 373.
- The MATH 252 prerequisite for PHYS 373 will be Note: waived for the applied physics minor.

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#### TEACHING CREDENTIAL PROGRAM

#### Teaching Credential Preparation Program Subject Matter Preparation Program in Science: Physics

Physics majors pursuing a single subject teaching credential in science with a Physics Specialization will need to take the CSET Examination to verify subject matter competence. To prepare for the CSET Exam, the following courses are recommended as part of, or in addition to the physics degree:

in addition to, the physics degree:			
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	
		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 Department of Science, Mathematics and Technology Education in the College of Education.

#### **DEPARTMENTAL HONORS**

To be awarded departmental honors in physics a student must:

- 1. Achieve at least a 3.5 minimum grade point average in courses required for the major taken at California State University, San Bernardino and at least a 3.0 grade point average overall;
- Write a thesis on a topic approved by the Department of Physics and the faculty member who will serve as project director;
- One of the following: have the thesis approved by a committee consisting of three faculty members from the Department of Physics, one of whom is the project director, or have the thesis accepted for publication by a peer-reviewed scientific journal.

Application for honors and approval of the thesis topic must occur at least two full quarters before graduation (which will ordinarily be the Fall quarter of the senior year.) The thesis must be submitted and the thesis defense (or journal acceptance) successfully completed by the quarter of graduation according to the timeline on file in the department office

## COURSE OFFERINGS IN PHYSICS (PHYS)

#### Lower Division

#### 100. Physics in the Modern World

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. Materials fee required. Prerequisite: satisfactory score on the Entry Level Mathematics examination. (**GE**=B3) (5 units)

#### 103. Descriptive Astronomy

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. Materials fee required. (**GE**= B3) (5 units)

#### 121. Basic Concepts of Physics I

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. Materials fee required. Prerequisite: MATH 192 or 211, with a grade of "C-" or better. (**GE**=B3) (5 units)

#### 122. Basic Concepts of Physics II

Continuation of PHYS 121. Topics include electricity, electric circuits and magnetism. Three hours lecture and three hours laboratory. Materials fee required. Prerequisite: PHYS 121. (4 units)

#### 123. Basic Concepts of Physics III

Continuation of PHYS 122. Topics include optics, waves and modern physics. Three hours lecture and three hours laboratory. Materials fee required. Prerequisite: PHYS 122. (4 units)

#### **150. Introductory Electronics**

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. Materials fee required. Prerequisites: a knowledge of trigonometry and exponential functions. (5 units)

#### 221. General Physics I

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. Materials fee required. Prerequisite: MATH 211. Prerequisite or corequisite: MATH 212. (**GE**=B3) (PHYS 221=**CAN** PHYS 8) (PHYS 221+222+223+224+ 228=**CAN** PHYS SEQ C) (5 units)

#### 222. General Physics II

Second course in a five-course sequence in introductory physics for scientists and engineers. Electromagnetism. Four hours lecture and three hours laboratory. Materials fee required. Prerequisites: PHYS 221 with a grade of "C" or better, MATH 212. Recommended: MATH 213. (PHYS 222=CAN PHYS 12) (PHYS 221+222+223+224+228= CAN PHYS SEQ C) (5 units)

#### 223. General Physics III

Third course of a five-course sequence in introductory physics for scientists and engineers. Waves and optics. Four hours lecture and three hours laboratory. Materials fee required. Prerequisite: PHYS 222 with a grade of "C" or better. (PHYS 221+222+223+224+228= **CAN** PHYS SEQ C) (5 units)

#### 224. General Physics IV

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. (PHYS 221+222+223+224+228=**CAN** PHYS SEQ C) (3 units)

#### 228. General Physics V

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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. (PHYS 221+222+223+224+228=**CAN** PHYS SEQ C) (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

Individual investigation, research, study or survey of selected problems. May be repeated for credit. Prerequisite: consent of instructor. (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

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. Materials fee required. 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. Materials fee required. Prerequisite or corequisite: PHYS 304. (1 unit)

#### 306. Classical Mechanics I

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)

#### 311. A Cosmic Perspective of Earth

Formation and evolution of the Earth, including its atmospheres, oceans and internal structure, placed in the context of our solar system. A comparative planetology course focusing on Earth and providing students with an understanding of where Earth fits into our solar system by introducing other solar system objects: planets, asteroids, comets, and moons alike. Fulfills the Earth and Space Science requirement for liberal studies. Four hours lecture and three hours laboratory. Materials fee required. May not count for credit towards the major or minor in Physics. Prerequisites: CHEM 100 and PHYS 100. (5 units)

#### 313. Electrodynamics I

Derivation and applications of Maxwell's equations. Four hours lecture. Prerequisites: PHYS 228 and one of the following: MATH 373 or 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 I

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 or PHYS 373. Recommended: MATH 331. (4 units)

#### 324. Statistical and Thermal Physics

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: MATH 252 and PHYS 228. (4 units)

#### 350. Data Acquisition and Control

An introduction to computer-based data acquisition, control and analysis. Topics include instrument control, graphical programming, algorithm development, feedback control algorithms, and computerbased data analysis. Three hours lecture and three hours laboratory. Materials fee required. Prerequisites: CSCI 201, PHYS 150 and 222. (4 units)

#### 352. Advanced Electronics

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. Materials fee required. Prerequisites: PHYS 350 and one of the following: MATH 373 or 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 or PHYS 373. (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 MATH 373. Students may not receive credit for both.) Prerequisites: PHYS 222 and MATH 252. MATH 331 is recommended. (4 units)

#### 406. Classical Mechanics II

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 or MATH 373. (4 units)

#### 414. Electrodynamics II

A continuation of PHYS 313 with advanced applications of Maxwell's equations and electromagnetic waves. Four hours lecture. Prerequisite: PHYS 313. (4 units)

#### 422. Quantum Mechanics II

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 Schroedinger equation in three dimensions, approximation methods, and scattering. Prerequisites: PHYS 306, 322 and 414. (4 units)

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#### 430. Advanced Physics Laboratory

Selected advanced experiments appropriate to a student's previous preparation. May be repeated for credit. Two hours lecture and six hours laboratory. Materials fee required. Prerequisite: PHYS 313. Recommended: PHYS 322. (4 units)

#### 450. Introduction to Solid State Physics

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

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

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

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. Pre-requisites: consent of instructor and department. (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

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. (1 to 6 units)

# POLITICAL SCIENCE

## **Department of Political Science**

Social and Behavioral Sciences Building, Room 112 (909) 537-5535 http://psic.csusb.edu

#### **Bachelor of Arts**

Political Science

#### Minor

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Political Science Pre-law

#### Master of Arts

National Security Studies

(Degree requirements can be found on Page 450.)

#### Certificate Program

International Relations

FACULTY: Mark Clark, Edward Erler, William Green, Brian Janiskee (Chair), 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 law

# **B.A. IN POLITICAL SCIENCE**

#### **Requirements (68 units)**

#### Total units required for graduation: 180

#### Requirements for the B.A. in Political Science:

- 1. PSCI 203. American Government (4)
- 2. PSCI 204. International Relations (4)
- 3. PSCI 314. American Political Thought (4)
- 4. American government and politics
  - Eight units chosen from:
  - PSCI 320. The Legislative Process (4)
  - PSCI 326. Political Parties and Interest Groups (4) PSCI 330. State and Local Politics (4)
  - PSCI 431. The American Presidency (4)
- 5. 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)
- 6. International relations
  - Eight units chosen from:
  - PSCI 325. American Foreign Policy (4) PSCI 400. International Politics (4)
  - PSCI 400. International Politics (4) PSCI 500. International Law (4)
  - PSCI 500. International Law (4)
  - PSCI 510. International Organization (4)

- 7. Political theory
  - Eight units chosen from:
  - PSCI 310. Classical Political Thought (4)
  - PSCI 311. Foundations of Modern Political Thought (4)
  - PSCI 313. Modern Political Thought (4)
  - PSCI 315. Post Modern Political Thought (4)
- 8. 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)
- 9. Sixteen additional units of electives in upper-division course work in political science, eight 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 203. American Government (4)
- 2. PSCI 204. International Relations (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 the Courts (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)
  - 1 SOI SOU. IIIterriational LaW (4,

# DEPARTMENTAL HONORS

Students majoring in political science who have a grade point average of at least 3.0 overall and 3.5 in the major are eligible to receive departmental honors at graduation.

# CSUSB 2006-2

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#### **PI SIGMA ALPHA**

A student must have completed at least 15 quarter hours or ten semester hours of work in government, political science, international relations, or public administration including at least one course not open to students in the first two years of collegiate work. The student must have at least 90 credits overall. The student must have at least a 3.0 average or higher in all political science courses and at least a 3.0 average overall. Additional information can be obtained from the Department of Political Science.

#### **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. See Page 55 for additional certificate information.

#### **Certificate in International Relations**

#### Certificate Requirements (32 units)

1.	hosen 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)
	PSCI 540.	Seminar in Comparative Politics (4)
	PSCI 590.	Seminar in International Relations (4)
2. Twelve units chosen from:		hosen from:
	ECON 430.	International Economics (4)
	ECON 435.	Multinational Corporations (4)
	ECON 450.	Global Economy (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

#### 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**=D2) (PSCI 203=**CAN** GOVT 2) (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)

#### 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. Modern Political Thought

Major political ideas of the nineteenth century. (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. Post Modern Political Thought

Major political ideas of the twentieth century. (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)

#### 280 / Political Science

#### 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)

#### 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)

#### 510. International Organization

History, structure and dynamics of the United Nations and other multinational 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)

#### 520. War and Politics

The study of the origins and political consequences of war. (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)

#### 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)

#### 540. Seminar in Comparative Politics

Theories, methods, and paradigms of comparative politics. May be repeated as topics change. (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. (2 to 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 as topics change. (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 as topics change. (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. (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 457.

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# PSYCHOLOGY

# **Department of Psychology**

Social and Behavioral Sciences Building, Room 425 (909) 537-5570 http://psychology.csusb.edu/

#### **Bachelor of Arts**

Psychology Psychology - Biological Psychology

#### Minor

Psychology

#### Master of Arts

Psychology

(Degree requirements can be found on Page 458.)

#### Master of Science

Psychology

(Degree requirements can be found on Page 459.)

FACULTY: Mark Agars, Allen Butt, David Chavez, Yuchin Chien, John Clapper, Gloria Cowan (Emeritus), Robert Cramer, Cynthia Crawford, Janelle Gilbert, Chuck Hoffman, Laura Kamptner, James Kaufman, Hideya Koshino, Janet Kottke, Michael Lewin, Faith McClure, Sanders McDougall, Fred Newton, Jean Peacock, Jason Reimer, Robert Ricco, David Riefer, Matt Riggs, Christy Scher, Janel Sexton, Kenneth Shultz, Geraldine Stahly, Edward Teyber, Jodie Ullman, Sharon Ward, Amanda Wilcox-Herzog, Eugene Wong, Joanna Worthley (Chair)

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 PSYC 311 and 400-level courses. Students enrolled in their pre-psychology course in statistics (e.g. PSYC 210) will be allowed to enroll an DSYC 324 for the following are stated with the understanding that all

in PSYC 311 for the following quarter with the understanding that all pre-psychology requirements will be completed successfully.

#### Requirements to enter the B.A. in Psychology:

	•	
1.	Completion of the	following:
	General Educ	cation Basic Skills in English (A1)
	One of the fo	llowing:
	ENG 101.	Freshman Composition
	HON 103.	Language and Meaning
	General Educ	cation Basic Skills in Mathematics (A3)
	One of the fo	llowing:
	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
	<ul> <li>PSYC 100.</li> </ul>	Introduction to Psychology, or its equivalent
		(also satisfies General Education category
		D4)

- 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:

- 1. PSYC 100. Introduction to Psychology (4)
- 2. 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
- 5. Fields of Psychology Twelve units chosen from:
  - PSYC 201. Developmental Psychology (4)
  - PSYC 240. Introduction to Child Development (4)
  - PSYC 355. Industrial Psychology (4)
  - PSYC 382. Psychology of Social Behavior (4)
  - PSYC 385. Personality (4)
  - PSYC 390. Abnormal Psychology (4)
  - Note: Students may apply only one of the following courses to the Psychology major:
    - PSYC 201. Developmental Psychology (4)
    - PSYC 240. Introduction to Child Development (4)
- 6. 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)
- 7. 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)
- Advanced Culminating Experience (6-8 units) 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)

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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 (	<b>e</b> ( <i>i</i> )
	ts chosen from:
PSYC 4	21. Advanced Seminar in Psychology:
	Developmental (4)
PSYC 4	22. Advanced Seminar in Psychology:
	Clinical (4)
PSYC 4	23. Advanced Seminar in Psychology:
	Biological (4)
PSYC 4	24. Advanced Seminar in Psychology:
	Social (4)
PSYC 4	25. Advanced Seminar in Psychology:
	Personality (4)
PSYC 4	26. Advanced Seminar in Psychology:
	Learning and Motivation (4)
PSYC 4	27. Advanced Seminar in Psychology:
	Cognition and Perception (4)
PSYC 4	
	Industrial and Organizational (4)
B. PSYC 3	
	taken in category 6 in the core, students
	must take an additional four units from cate-
	gories 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.

# B.A. IN PSYCHOLOGY -BIOLOGICAL PSYCHOLOGY

#### **Requirements (66 units)**

Total units required for graduation: 180

# Requirements for the B.A. in Psychology - Biological Psychology:

- 1. PSYC 100. Introduction to Psychology (4)
- 2. PSYC 101. Psychology as a Major (1)
- 3. PSYC 210. Psychological Statistics (5)
- 4. PSYC 311. Introduction to Experimental Psychology (6)
- 5. PSYC 363. Biological Psychology (4)
- 6. PSYC 442. Behavioral Neuroscience (4)
- 7. 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)

8.	Basic Processes Four units chosen from:		
	PSYC 357.	History and Systems of Psychology (4)	
	PSYC 360.	Cognitive Psychology (4)	
	PSYC 364.	Perception (4)	
9.	Foundations of	of Biopsychology	

9.	Foundations o	f Biopsychology	
	Eight units chosen from:		
	PSYC 362.	Learning and Motivation (4)	
	PSYC 365.	Cognitive Neuroscience (4)	
	PSYC 538.	Introduction to Psychopharmacology (4)	
10.	Advanced Cul	minating Experience	
	Six units chose	en from:	
	PSYC 433.	Experimental Psychology: Biological (6)	
	PSYC 436.	Experimental Psychology: Learning and	
		Motivation (6)	
11.	11. Upper-division biopsychology electives.		
	Twelve units fr	rom:	
	PSYC 324.	Developmental Psychobiology (4)	
	PSYC 339.	Human Psychophysiology (4)	
	PSYC 362.	Learning and Motivation (4)	
	PSYC 365.	Cognitive Neuroscience (4)	
	PSYC 367.	Neuropsychiatric Disorders (4)	
	PSYC 423.	Advanced Seminar in Psychology: Biological (4)	
	PSYC 426.	Advanced Seminar in Psychology: Learning and	
		Motivation (4)	
	PSYC 538.	Introduction to Psychopharmacology (4)	

Students intending to apply to doctoral programs in biopsychology are encouraged to take appropriate course work in biology, chemistry, and physics.

#### 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:

 At least one-half of the course work required by the major is completed at this university;

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- 3. An overall grade point average of 3.25 or better;
- 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=**D4) (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**=A4) (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**=E2) (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: PSYC 210, SCM 210, or SSCI 215. Four hours lecture and three hours of laboratory. (PSYC 210=**CAN** PSY 6) (5 units)

#### 240. Introduction to Child Development

Comprehensive introduction to child development from conception through adolescence. Emphasis is on physical, cognitive social, emotional and language development. (Also offered as HD 240. Students may not receive credit for both.) (4 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.) Pre-requisite: 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. Pre-requisite: 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)

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#### 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)

#### 341. Women and Violence

Issues of women and violence, combining empirical and theoretical work with community training in agencies dealing with violence against women; including service learning. Formerly a topic under PSYC 375. Two hours lecture and 40 hours of volunteer training. Prerequisite: PSYC 100 or consent of instructor. (4 units)

#### 345. Cross-Cultural Psychology

Cross-cultural 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 240, 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)

#### 361. Intelligence and Creativity

Introduction to intelligence and creativity with an emphasis on theories, measurement and current debates, including among others, the Bell Curve, the link between creativity and mental illness, and role of IQ tests and creativity in school and work assessment. Formerly a topic under PSYC 375. (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)

#### 365. Cognitive Neuroscience

Examination of the neural foundations of human mental functioning, including perception, attention, memory, language, thinking and consciousness. Special emphasis on human neuroimaging as well as behavioral and cognitive impairments from brain injury. 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. Pre-requisites: PSYC 100 and one of the following: PSYC 210, SCM 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)

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#### 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. 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, SCM 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)

#### 286 / Psychology

# 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 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. (2 to 4 units)

# 596. Practicum in Psychology: Peer Advising

Theory, training, and practice in the basic knowledge, skills, and abilities involved in academic peer advising. One hour seminar, three hours practicum. A total of eight units may be applied toward graduation, of which a maximum of four units can be an upper-division elective in the psychology or human development major. Graded credit/no credit. An application must be submitted during the quarter prior to the quarter student plans to enroll. Prerequisites: consent of instructor and department. (2 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)

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# **PUBLIC ADMINISTRATION**

## **Department of Public Administration**

Jack Brown Hall, Room 456 (909) 537-5758 http://www.cbpa.csusb.edu/pa/

FACULTY: David Baker, Chuck Christie (Emeritus), Michael Clarke, Joelie De La Torre, Albert K. Karnig, Guenther Kress (Emeritus), Audrey Mathews, Monty Van Wart (Chair), 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 69. The Master of Public Administration can be found on Page 466. 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 90 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**=G2) (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

Description and analysis of government policies affecting business development at local, state and national levels. Discussion of major international trade treaties, trading blocs, and international financial institutions and the impact of globalization on government's involvement with business. (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. (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) C S U

#### 288 / Public Administration

#### 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. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (2 or 4 units)

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## SOCIAL SCIENCES

#### College of Social and Behavioral Sciences

Social and Behavioral Sciences Building, Room 207 (909) 537-7500 http://csbs.csusb.edu/

#### **Bachelor of Arts**

Social Sciences Social Sciences - Credential Track

#### Master of Arts

Social Sciences (Degree requirements can be found on Page 475.)

#### COORDINATOR: Carolyn Aldana, John Heeren

The social sciences major is designed for those students who either, wish to blend any three of the disciplines represented in the College of Social and Behavioral Sciences, or want to pursue the single subject teaching credential in social science, with an emphasis on History.

#### **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
2	A minimum of	Society (4) twelve units chosen from:
3.		
	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)
	-	nly one of the following two courses:
	ANTH 323	
	ART 323	Native North American Art (4)
		nly one of the following two courses:
	ANTH 324	
	ART 324.	Pre-Columbian Art (4)
	ANTH 325.	Human Biological 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
	ANTT 555.	Perspective (4)
	May choose of	nly one of the following two courses:
	ANTH 335	
	/	Deviance (4)
	ANTH 335	
	ANTI 555	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
	ANTH SOL	
		Polynesia (4)
	ANTH 375.	Museum Methods (4)
	ANTH 390.	Selected Topics in Anthropology (4)
	ANTH 391.	Selected Topics in Anthropology (2)
4.	Eight units cho	
	ANTH 388.	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 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)

#### 290 / Social Sciences

Se	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.		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. ANTH 307.	Aztecs, Maya and Their Predecessors (4) Incas and Their Predecessors (4)		
	ANTH 307. 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 o	nly one of the following two courses:		
	ANTH 323			
	ART 323.	Native North American Art (4)		
		nly one of the following two courses:		
	ANTH 324			
	ART 324. ANTH 325.	Pre-Columbian Art (4) Human Biological Variation and the Concept of		
	ANTH 323.	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)		
		nly one of the following two courses:		
	ANTH 335			
	ANTH 335	Deviance (4) S. Cross-Cultural Perspectives on Crime and		
	ANTH 350	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. ANTH 391.	Selected Topics in Anthropology (4) Selected Topics in Anthropology (2)		
3.	Four units cho			
0.	ANTH 388.	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 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. ANTH 595.	Fieldwork in Cultural Anthropology (4) Independent Study (2-5)		
	ANTT 395.	independent olduy (2-0)		

#### **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 500.	History of Economic Thought (4)
4. Four units chosen from applied field courses:		sen from applied field courses:
	ECON 360.	Economics of the Environment (4)
	ECON 410.	Money and Banking (4)
	ECON 430.	International Economics (4)
	ECON 435.	Multinational Corporations (4)
	ECON 460.	Labor Economics (4)
	ECON 475.	Public Finance (4)
5.	Four units chosen from political economy courses:	
	ECON 333.	Political Economy of Women: Money, Sex, Race,
		and Power (4)
	ECON 352.	Political Economy of Poverty and
		Discrimination (4)
	ECON 421.	Economic History of the United States (4)
	ECON 445.	Political Economy (4)
	ECON 450.	Global Economy (4)
	ECON 520.	Social Economics (4)
6.	Eight units of	additional upper-division economics course work.
Sec	condary Field (	16 units):

- 1. ECON 200. Principles of Microeconomics (4)
- 2. ECON 202. Principles of Macroeconomics (4)
- 3. Eight units of additional 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)
- Geography of Economic Activity (4) 3. GEOG 420.
- 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:

- The United States, 1877-1917 (4) HIST 356.
- HIST 357. The United States, 1917-1945 (4)
- HIST 359. The United States Since 1945 (4)

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3.	HIST	306.	Early Modern Europe, the Renaissance to 1815 (4)
	or		
		units as f	
	HIST		Renaissance and Reformation (4)
4.	HIST	403. 307	The Age of Absolutism and Enlightenment (4) Modern Europe, 1815 to the Present (4)
4.	or	307.	modern Europe, 1013 to the Present (4)
		units cho	sen from:
	HIST		Europe Since 1945 (4)
	HIST	535.	Studies in European National History (4)
5.		units cho	
			Ancient and Medieval Europe (4)
		320. 321.	History of Ancient Greece (4) History of Rome (4)
	HIST		Early Medieval Europe (4)
	HIST		Late Medieval Europe (4)
6.	Eight	units of u	pper-division history course work.
Sec	ondar	y Field (1	6 units):
1.	Eight	units of u	pper-division history course work and either
		o 1 or 2 b	elow:
	oup 1:		
1.	HIST	200.	United States History to 1877 (4)
	or Fight	units cho	sen from:
	HIST		The American Colonies, 1607-1783 (4)
	HIST	351.	The Evolution of American Democracy, 1783-
			1840 (4)
_	HIST		Civil War and Reconstruction (4)
2.	HIST	201.	United States History, 1877 to the Present (4)
	Or Fight	unite cho	sen from:
	HIST		The United States, 1877-1917 (4)
		357.	The United States, 1917-1945 (4)
	HIST	359.	The United States Since 1945 (4)
	up 2:		
1.	HIST	306.	Early Modern Europe, the Renaissance to 1815 (4)
	or Fight	units as f	follows:
		402.	Renaissance and Reformation (4)
	HIST		The Age of Absolutism and Enlightenment (4)
2.	HIST	307.	Modern Europe, 1815 to the Present (4)
	or		
			sen from:
	HIST HIST		Europe Since 1945 (4) Studies in European National History (4)
De			
		I Scien	
	-		units, Secondary Field 16 units)
	-	ield (28 ι	
1.	PSCI PSCI		American Government (4)
2. 3.			International Relations (4) f upper-division course work with at least four units
J.			topper-division course work with at least rout units the following five fields:
Am			ment and Politics
		units cho	
	PSCI		The Legislative Process (4)
	PSCI		Political Parties and Interest Groups (4)
	PSCI	428. 431	Formulation of Public Policy (4) The American Presidency (4)
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#### **Comparative Government**

- Four units chosen from:
- PSCI 300. Western Political Systems (4)
- Communist Political Systems (4) Developing Political Systems (4) PSCI 304.
- PSCI 306.

International Relations		
	Four units cho	sen 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)
Pol	itical Theory	,
	Four units cho	sen from:
		Classical Political Thought (4)
	PSCI 311.	Foundations of Modern Political Thought (4)
	PSCI 313.	Modern Political Thought (4)
Puk	olic Law	
	Four units cho	
	PSCI 328.	Judicial Process (4)
	PSCI 410.	American Constitutional Law (4)
	PSCI 411.	The Bill of Rights (4)
Sec	ondary Field (1	6 units):
1.	PSCI 204	International Relations (4)
		of upper-division course work, four units chosen
	from three of the	he five fields listed below:
Am		ment and Politics
	Four units cho	
	PSCI 326.	The Legislative Process (4) Political Parties and Interest Groups (4)
	PSCI 428.	Formulation of Public Policy (4)
		The American Presidency (4)
Cor	nparative Gov	
	Four units cho	sen from:
	PSCI 300.	Western Political Systems (4)
	PSCI 304.	Communist Political Systems (4)
	PSCI 306.	Developing Political Systems (4)
Inte	ernational Rela	itions
	Four units cho	sen 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)
Pol	itical Theory	
	Four units cho	
	PSCI 310.	Classical Political Thought (4)
		Foundations of Modern Political Thought (4)
	PSCI 313.	Modern Political Thought (4)
Put		
	Four units cho	
	PSCI 328.	Judicial Process (4)
	PSCI 410.	American Constitutional Law (4)
_	PSCI 411.	The Bill of Rights (4)
Ps	ychology	
(Pri	mary Field 29	units, Secondary Field 16 units)
Prin	nary Field (29 ι	units):
1.	PSYC 100.	Introduction to Psychology (4)
2.	PSYC 210.	Psychological Statistics (5)
2. 3.	Eight units cho	
0.	PSYC 201.	Developmental Psychology (4)
	PSYC 382.	Psychology of Social Behavior (4)
	PSYC 385.	Personality (4)
	PSYC 390.	Abnormal Psychology (4)
4.	Four units cho	, , ,
	PSYC 360.	Cognitive Psychology (4)
	PSYC 362.	Learning and Motivation (4)

Biological Psychology (4)

Perception (4)

PSYC 363.

PSYC 364.

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5.	Four units cho	osen 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 u	upper-division psychology electives.
Se	condary Field (	16 units):
1.	PSYC 100.	Introduction to Psychology (4)
2.	Four units cho	osen 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 cho	
	PSYC 360.	Cognitive Psychology (4)
	PSYC 362.	Learning and Motivation (4)
	PSYC 363.	Biological Psychology (4)
	PSYC 364.	Perception (4)
4.	Four units cho	
	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. Four units chosen from: SOC 311. Sociological Theory (4)
- 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.

# B.A. IN SOCIAL SCIENCES - CREDENTIAL TRACK

#### Requirements (101-102 units)

#### Total units required for graduation: 180

Students who wish to teach social science subjects in California's secondary schools have two primary ways in which they can be accepted as "highly qualified" teachers as required by federal No Child Left Behind guidelines. First, they can pass the California Subject Examination for Teachers (CSET), which encompasses knowledge of history, geography, economics, and political science. Passing this exam means that the prospective teacher is considered to be "highly qualified" in each of these four disciplines. Alternatively, students may complete the B.A. in Social Sciences, Credential Track, a California approved waiver program. The core discipline in the program is history, as that is the most widely taught social science subject in secondary schools. In addition to this concentration, students have options in

the other three disciplines of geography, economics, or political Science. Any of these options would add 32-37 units to the 101-102 units needed for the core history program.

Students in the program are encouraged to take the CSET exam as that would provide maximum flexibility for teaching social sciences at the secondary level. Completing the B.A. in Social Science-Credential Track should provide considerable knowledge for doing well on this exam. Students in the Credential Track are encouraged to see their Social Science advisor early in their program for assistance in choosing courses. For information about the professional education component or admission to the teacher education program, contact the Credentials Office (C.A.S.E.)

## Requirements for the B.A. in Social Sciences - Credential Track:

Lower-division requirements (47 units)

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.	ECON 200.	Principles of Microeconomics (4)
3.	ECON 202.	Principles of Macroeconomics (4)
4.	ESEC 200.	Introduction to Careers in Education (2)
5.	GEOG 100.	Introduction to Human Geography (4)
6.	GEOG 103.	Physical Geography (5)
7.	HIST 142.	World Civilizations II, the Civilizations of the East and West (4)
8.	HIST 144.	World Civilizations III, the Expansion of Europe (4)
9.	HIST 200.	United States History to 1877 (4)
10.	. HIST 201.	United States History, 1877 to the Present (4)
11.	Four units cho	
	PHIL 192.	Introduction to Philosophy of Religion (4)
	PHIL 193.	Introduction to Eastern Philosophy (4)
12.	. PSCI 203.	American Government (4)
Up	per-division rec	quirements (54-55 units)
1.	GEOG 302.	Geography of California (4)
2.	HIST 370.	History of California (4)
3.	HIST 394.	Introduction to History (4)
4.	Four units cho	
	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)
5.	Four units cho	
	HIST 320.	History of Ancient Greece (4)
	HIST 321.	History of Rome (4)
	HIST 400.	Early Medieval Europe (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)
- 6. Eight units chosen from:
  - HIST 383. Classical Islamic Civilization (4)
  - HIST 384. Modern Middle East (4)
  - HIST 385. Africa to 1500 (4)
  - HIST 386. Africa 1500 to 1870 (4)
  - HIST 387. Africa 1870 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)

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- 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)
- HIST 487. Topics in Modern Middle Eastern History (4)
- 7. 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)
  - HIST 356. The United States, 1877-1917 (4)
  - The United States, 1917-1945 (4) HIST 357.
  - 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)
- PSCI 330. State and Local Politics (4) 8.
- Four units chosen from: 9
  - The Origin and Contemporary Role of Latino HUM 335. Culture (4)
  - HUM 350. The Cultures of American Childhood (4)
  - HUM 370. African Heritage in the Arts (4)
  - The World of Islam (4) HUM 375.
  - Comparative Studies in the Arts: East and HUM 380. West (4)
- 10. 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)
- 11. SSCI 499. Senior Seminar (2)
- Data Collection and Analysis (4 units)
- 1. A minimum of four units chosen from:

ECON 250.	Statistics for Economists (4)
GEOG 305.	Geographical Statistics and Research
	Methods (4)
PSYC 210.	Psychological Statistics (5)
SCM 210.	Applied Business Statistics (4)

Students who complete this track for the Social Sciences Credential Option will meet the requirements for a Social Science subject matter waiver, as well as meeting the No Child Left Behind criteria to be designated a highly gualified teacher of History, based on the completion of 48 units of coursework in that field.

#### **Disciplinary Options**

Students who wish to be considered a highly qualified teacher in another discipline should complete the coursework listed below in addition to those taken above (for a combined total of 48 units):

#### Economics Option (37 units)

- 1. ECON 335. Economic Analysis with Microcomputers (5)
- ECON 500. History of Economic Thought (4) 2.
- 3 ECON 510. Economics in the Classroom (4)
- Four units chosen from: 4.
  - ECON 333. Political Economy of Women: Money, Sex, Race and Power (4) ECON 352.
    - Political Economy of Poverty and Discrimination (4) ECON 357. The Political Economy of Lesbians, Gays,
    - Bisexual, and Transgenders (4)
  - ECON 435. Multinational Corporations (4)
  - ECON 445. Political Economy (4)
  - ECON 450. Global Economy (4)

- 5. Four units chosen from: ECON 360. Economics of the Environment (4) ECON 372. Business Cycles (4) Selected Topics in Economics (4) ECON 390. Money and Banking (4) ECON 410. International Economics (4) ECON 430. ECON 475. Public Finance (4) 6. Sixteen units of upper-division Economics courses. Geography Option (32 units) GEOG 312. Geography of the Developing World (4) 1. Geography of the Developed World (4) GEOG 313. 2. 3. GEOG 320. Geography of Social Issues (4) United States and Mexican Border Issues (4) 4. GEOG 322. 5. GEOG 323. Area Study: North America (4) 6. GEOG 350. Conservation and Natural Resources (4) GEOG 420. Geography of Economic Activity (4) 7. Four units chosen from: 8. GEOG 415. Urban Planning and Land Development (4) Understanding the City (4) GEOG 440. Political Science Option (36 units) 1. PSCI 204 International Relations (4) PSCI 314. American Political Thought (4) 2. Four units chosen from: 3. PSCI 300. Western Political Systems (4) PSCI 304. Communist Political Systems (4) PSCI 306. **Developing Political Systems (4)** Government and Politics of the Middle East (4) PSCI 308. Four units chosen from: 4. PSCI 310. Classical Political Thought (4) Foundations of Modern Political Thought (4) PSCI 311. PSCI 313. Modern Political Thought (4) PSCI 315. Post Modern Political Thought (4) 5. Four units chosen from: PSCI 328. Judicial Processes (4) American Constitutional Law (4) PSCI 410. The Bill of Rights (4) PSCI 411. Civil Rights (4) PSCI 412. 6. Four units chosen from: PSCI 325. American Foreign Policy (4) International Politics (4) PSCI 400. PSCI 500. International Law (4) International Organization (4) PSCI 510. Eight units chosen from: 7. Studies in Political Theory (4) PSCI 530. PSCI 535. Seminar in Constitutional Law (4) Seminar in Comparative Politics (4) PSCI 540.

  - Seminar in International Relations (4) PSCI 590.
- PSCI 592. Seminar in Government (4) 8. Four units of upper division Political Science courses.

#### **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=D3) (4 units)

#### 294 / Social Sciences

#### 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: PSYC 210, SCM 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**=D5) (4 units)

#### 304. Contemporary Latin America

Social, economic and political conditions and institutions in contemporary Latin America. Prerequisite: junior or senior standing. (**GE**=D5) (4 units)

#### 306. Expository Writing for the Social Sciences

Writing on topics related to the social 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**=F1) (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**=D5) (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=D5, G1) (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**=D5) (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**=D5) (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**=D5, G1) (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**=D5) (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**=D5, G1) (4 units)

#### 499. Senior Seminar

Assessment of the student's academic progress through the preparation and submission of a portfolio of completed course work. Students also compose a reflective essay covering courses taken and complete an exit survey on their academic experience in the major. Prerequisite: senior standing. (2 units)

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## **SOCIAL WORK**

#### **Department of Social Work**

Social and Behavioral Sciences Building, Room 423 (909) 537-5501 http://socialwork.csusb.edu/

#### **Bachelor of Arts**

Social Work

#### Master of Social Work

(Degree requirements can be found on Page 477.)

#### Credential

Pupil Personnel Services Credential: Social Work (Credential requirements can be found on Page 397.)

**FACULTY:** Patsy Andrada, Janet Chang, Thomas Davis, Ray Liles, Nancy Mary, Rosemary McCaslin, Teresa Morris (Chair), Herb Shon, Laurie Smith

#### **B.A. IN SOCIAL WORK**

#### **Requirements (74 units)**

#### Total units required for graduation: 180

The Department of Social Work offers courses leading to the Bachelor of Arts in Social Work. This degree prepares baccalaureate students for generalist social work practice and equips them to work in agency settings with individuals, families, groups and communities who are encountering problems related to personal or social circumstance. The upper division curriculum is based upon the requirements of the Council on Social Work Education, the national accrediting body for social work programs, which has granted candidacy to this degree. The program is intensive and exciting and applies to a wide variety of social work client populations.

Students must apply to the Department of Social Work for admission into the B.A. in Social Work.

#### **Admission Requirements**

- Completion of application packet including personal statement of commitment to the social work profession, two references, and transcripts; (Contact the Department of Social Work for more information.)
- Completion of all lower division General Education requirements with an overall grade point average of 2.0 ("C") or better;
- Completion of additional lower division requirements with a grade of "C" or better;

## General Education requirements to enter the B.A. in Social Work:

Basic Skills in Written Communication (A1)

1. One of the following:		
ENG 101.	Freshman Composition	
HON 103	Language and Meaning	
Basic Skills in Ora	al Communication (A2)	
1. One of the fol	lowing:	
COMM 120.	Oral Communication	
HON 103.	Language and Meaning	
Basic Skills in Mat	thematics (A3)	
1. One of the fol	lowing:	
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	
Basic Skills in Crit	ical Thinking (A4)	
1. One of the fol	lowing:	
PSYC 105.	Critical Thinking Through Problem Analysis	
SOC 180.	Critical Thinking About Social Problems	

Natural Sciences Breadth Area (B2)			
1.	BIOL 100.	Topics in Biology	
Hu	manities Breadt	h Area (C3)	
1.	SPAN 150.	Intermediate Spanish	
So	Social and Behavioral Sciences Breadth Area (D4)		
1.	PSYC 100.	Introduction to Psychology	
2.	SOC 100.	The Study of Society	
Additional Lower Division Requirements to enter the			
B.A	B.A. in Social Work:		
1	SW 200	Introduction to Social Work	

1.	SW 200.	Introduction to Social Work
2.	One of the foll	owing:
	PSYC 210.	Psychological Statistics
	ECON 250.	Statistics for Economists
	SCM 210.	Applied Business Statistics

SSCI 215. Statistics for the Social Sciences

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3. CJUS 101. Introduction to the Criminal Justice System
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#### Requirements for the B.A. in Social Work:

Upper-division requirements (66 units)

- Four units chosen from the following (which also meets the Multicultural/Gender Requirement (G1) HUM 325. Perspectives on Gender (4) NSCI 325. Perspectives on Gender (4)
  - SSCI 316. Race and Racism (4)
  - SSCI 325. Perspectives on Gender (4)
  - SSCI 325. Perspectives of Gender (4) SSCI 350. Roots of Modern Racism in America (4)
- 2. PSYC 390. Abnormal Psychology (4)
- 3. SOC 339. Socialization (4)
- 4 Four units chosen from:

т.		
	PSCI 380.	Introduction to Public Administration (4)
	PA 380.	Introduction to Public Administration (4)

- 5. SW 300A. Social Welfare Policy I (4)
- 6. SW 300B. Social Welfare Policy II (4)
- 7. SW 301. Social Work Research (6)
- 8. SW 302A. Human Behavior and the Social Environment I (4)
- 9. SW 302B. Human Behavior and the Social Environment II (4)
- 10. SW 400A. Social Work Practice: Individuals (4)
- 11. SW 400B. Social Work Practice: Groups (4)
- 12. SW 400C. Social Work Practice: Organizations and Communities (4)

Law and the Courts (4)

- 13. SW 401A. Field Work (4)
- 14. SW 401B. Field Work (4)
- 15. SW 401C. Field Work (4)
- 16. SW 590. Special Topics (4)

Discipline requirements (8 units)

1. Eight units in one of the following disciplines

Criminal Justice CJUS 370.

00000010.	
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)
Economics	
ECON 333.	Political Economy of Women: Money, Sex and
	Power (4)
ECON 352.	Political Economy of Poverty and
	Discrimination (4)
ECON 445.	Political Economy (4)
ECON 520.	Social Economics (4)
Human Develop	ment
HD 305.	Multicultural Child Development (4)
HD 324.	Developmental Psychobiology (4)
HD 372.	Psychology of Death and Dying (4)

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Political Science	D
PSCI 330. State and Local Politics (4)	•
PSCI 428. Formulation of Public Policy (4)	
Psychology	п
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PSYC 303. Parenting and Family Relations (4)	
PSYC 320. Psychology of Middle Childhood (4)	
PSYC 328. Psychology of Adolescent Development (4)	
PSYC 329. Psychology of Adulthood and Aging (4)	
PSYC 351. Behavior Modification: Principles and	
Applications (4)	
	c
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SOC 343. Sociology of Family Violence (4)	
SOC 360. Social Psychology (4)	
SOC 410. Sociology of Race and Ethnicity (4)	
SOC 431. Sociology of the Inner City (4)	
<b>3</b> , <b>1</b>	
()	
COURSE OFFERINGS IN	C
PSYC 329.Psychology of Adulthood and Aging (4)PSYC 351.Behavior Modification: Principles and Applications (4)PSYC 382.Psychology of Social Behavior (4)PSYC 386.Introduction to Psychotherapy (4)PSYC 387.Community Psychology (4)SociologySociology of the Family (4)SOC 340.Sociology of Family Violence (4)SOC 360.Social Psychology (4)SOC 410.Sociology of Race and Ethnicity (4)	_

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#### Lower Division

#### 200. Introduction to Social Work

Introductory survey of levels of social work practice and fields of practice. Review of NASW professional code of ethics and social work resources. (4 units)

(SW)

#### Upper Division

#### 300. Social Welfare Policy

- A. I: History of social work, development of structures of social welfare services and the role of policy in service delivery. Prerequisite: admission to B.A. in Social Work. (4 units)
- B. II: Frameworks for policy analysis of social welfare policies and social service delivery in organizational, local, state, national and international settings. Introductory social work policy practice skills. Prerequisite: SW 300A. (4 units)

#### 301. Social Work Research

Social Work approaches to qualitative and quantitative research that builds knowledge for social work practice. Interpreting and applying social work practice research to students' own practice. Skills needed to implement a social work research project in a social work setting. Four hours lecture and six hours laboratory. Prerequisite: admission to B.A. in Social Work. (6 units)

#### 302. Human Behavior and the Social Environment

A. I: Theories and knowledge of human bio-psycho-social development from birth to young adulthood, including theories and knowledge about the range of social systems in which individuals live (families, groups, organizations, institutions and communities). Interactions between and among human biological, social, psychological and cultural systems as they affect and are affected by human behavior. Prerequisite: admission to B.A. in Social Work. (4 units)

B. II: Theories and knowledge of human bio-psycho-social development in relation to adulthood and aging. Includes theories and knowledge about the range of social systems in which individuals live (families, groups, organizations, institutions and communities). Interactions between and among human biological, social, psychological and cultural systems as they affect and are affected by human behavior. Prerequisite: SW 302A. (4 units)

#### 400. Social Work Practice

- A. Individuals. Theories, models and skills for social work interventions with individuals using a generalist model of social work practice. Designed to run concurrently with the field placement education. Prerequisites: admission to B.A. in Social Work, completion of all courses below the 400-level and consent of instructor. (4 units)
- B. Families and Groups. Theories, models and skills for social work interventions with families and groups using a generalist model of social work practice. Designed to run concurrently with the field placement education. Prerequisites: SW 400A and consent of instructor. (4 units)
- C. Organizations and Communities. Theories, models and skills for social work interventions with organizations and communities using a generalist model of social work practice. Designed to run concurrently with the field placement education. Prerequisites: SW 400B and consent of instructor. (4 units)

#### 401. Field Work

Practice experience in public and private social service agencies with individuals, families, groups, formal organizations and communities. Graded credit/no credit. Prerequisites: admission to B.A. in Social Work, completion of all courses below the 400-level and consent of instructor.

- A. (4 units)
- (4 units) В.
- C. (4 units)

#### 590. Special Topics

Special topics in social work. May be repeated for credit with consent of instructor as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

#### 595. Independent Study

Special topics involving library and/or field research. May be repeated for credit. Prerequisite: consent of instructor. (1 to 4 units)

#### 597. Social Work Honors Project

Original in-depth research in an area of social work practice. Prerequisites: admission to B.A. in Social Work, completion of SW 301 and consent of instructor. (4 units)

## SOCIOLOGY

#### Department of Sociology

Social and Behavioral Sciences Building, Room 327 (909) 537-5541 http://csbs.csusb.edu/sociology/

#### **Bachelor of Arts**

Sociology Sociology - Social Service

#### Minor

Sociology

#### Certificate Programs

Gerontology Social Services

**FACULTY** Melissa Barfield, Zeng-Yin Chen, David Decker (Emeritus), James Fenelon, John Heeren, Patricia Little, Marcia Marx, Tom Meisenhelder (Emeritus), Randi Miller (Chair), Cliff Paynton (Emeritus), Mary Texeira, Elsa Valdez

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 the social sciences area 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 (62 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 (4)
- 6. SOC 590. Seminar in Sociology (4)
- Thirty-six additional units in sociology, 32 of which must be upperdivision. Students must choose at least two courses from each of the concentrations listed below. Credit for a course may be granted for only one category.

#### Social Inequality

- SOC 336. Black Women and Feminism (4)
- SOC 341. Marriage and Family Among Blacks (4)
- SOC 342. The Chicano Family (4)
- SOC 343. Sociology of Family Violence (4)
- SOC 382. Sociology of Developing Societies (4)
- SOC 410. Sociology of Race and Ethnicity (4)
- SOC 418. Sociology of Social Welfare (4)
- SOC 425. Asian Americans: Origins and Ethnicity (4)
- SOC 430. Urban Sociology (4)

SOC 440.	Social Class (4)
SOC 441.	Black Social Stratification (4)
SOC 442.	Chicano Social Stratification (4)
SOC 444.	Sociology of Gender (4)
SOC 525.	Indian Nations and Native America (4)
Social Control	
SOC 343.	Sociology of Family Violence (4)
SOC 350.	Criminology (4)
SOC 352.	Juvenile Offender (4)
SOC 354.	Deviant Behavior (4)
SOC 356.	Sociology of Mental Illness (4)
SOC 358.	Punishment and Corrections (4)
SOC 359.	Law and Society (4)
SOC 450.	White Collar Crime (4)
SOC 484.	Social Casework (4)
Community and	Institutions
SOC 340.	Sociology of the Family (4)
SOC 341.	Marriage and Family Among Blacks (4)
SOC 342.	The Chicano Family (4)
SOC 368.	Sociology of Work (4)
SOC 418.	Sociology of Social Welfare (4)
SOC 420.	Population and Social Ecology (4)
SOC 430.	Urban Sociology (4)
SOC 431.	Sociology of the Inner-City (4)

SOC 540. Sociology of Education (4) The sociology major calls for following a sequence through the required core courses of the discipline. After taking the introductory course, students should complete SOC 301, to be followed by the methods courses (SOC 307 and 309) and theory (SOC 311). SOC 590 is intended as a capstone experience and should be taken at the end of one's college career. In addition to these core courses, 36 units of electives complete the major requirements. To insure a broad understanding of the major research areas in the discipline of Sociology, students must take at least two courses from each of the concentrations listed above.

Community Organization (4)

Beyond meeting this breadth requirement in elective courses, concentrating in the areas above provides a deeper understanding of the subarea, preparing the way for further research at the undergraduate or graduate level or for working in a related occupation after graduating. In addition to these concentrations, students are encouraged to develop, in consultation with their departmental advisor, a program of elective courses that is relevant to their future plans.

## B.A. IN SOCIOLOGY -SOCIAL SERVICE TRACK Requirements (62 units)

SOC 434.

#### Total units required for graduation: 180

Students majoring in sociology may wish to pursue a course of study that will provide them with appropriate training for working in social service agencies. This track, which generally overlaps with the sociology major requirements, requires that the core courses in sociology be taken. The elective course requirements (at least 36 units) should be met in the categories of Social Service Policy and Practice, Applications in Social Service and the Capstone Experience.

## Requirements for the B.A. in Sociology - Social Service Track:

Sociology Core (22 units)

- 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 (4)

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#### 298 / Sociology

Social Service Policy and Practice (12 units)

- 1. Twelve units chosen from: SOC 418. Sociology of Social Welfare (4) SOC 434. Community Organization (4) SOC 436. Group Dynamics (4) SOC 484. Social Casework (4) Social Structures and Processes (12 units) 1. Four units chosen from: SOC 339. Socialization (4) SOC 360. Social Psychology (4) 2. Four units chosen from: Sociology of the Family (4) SOC 340. SOC 341. Marriage and Family Among Blacks (4) SOC 342. The Chicano Family (4) 3. Four units chosen from: Sociology of Race and Ethnicity (4) SOC 410. SOC 440. Social Class (4) SOC 441. Black Social Stratification (4) Chicano Social Stratification (4) SOC 442. SOC 444. Sociology of Gender (4) Applications in Social Services (8 units) 1. Eight units chosen from: SOC 330. Social Gerontology (4) SOC 343. Sociology of Family Violence (4) SOC 352. Juvenile Offender (4) SOC 354. Deviant Behavior (4) Medical Sociology (4) SOC 355.
  - SOC 356. Sociology of Mental Illness (4)
  - SOC 431. Sociology of the Inner-City (4)
  - Sociology of Education (4) SOC 540.

Approved upper-division courses from Health Science, Psychology, and Social Work may be substituted for these units chosen in consultation with department advisor.

#### Capstone Experience (8 units)

Students must choose either A or B

- A. SOC 575. Internship in Sociology (4) or one additional sociology elective from those not chosen in a previous category and in consultation with department advisor. Seminar in Sociology (4) SOC 590.
- B. SOC 575. Internship in Sociology (4) for a total of (8)

#### **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;
- At least a 3.5 grade point average in the major, both at this 2. university and overall;
- An overall undergraduate grade point average of 3.0 ("B") or 3. 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. See Page 55 for additional certificate information.

#### Certificate in Gerontology

#### Certificate Requirements (28 units)

- 1. HSCI 423. Health and Wellness of Older Adults (4)
- PSYC 329. Psychology of Adulthood and Aging (4) 2.
- 3. SOC 330. Social Gerontology (4)
- A minimum of sixteen units of elective courses, chosen with the 4. 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 314. Biology of Human Sexuality (4)
  - HSCI 271. Introduction to Community Health (4)
  - May choose only one of the following two courses:
    - HSCI 345. Advanced Food Science (5)
    - Principles of Nutrition (4) HSCI 350.
  - HSCI 440. Family Health Issue for Educators (4)
  - HSCI 495A. Field Experience (5)
  - Field Experience (6) HSCI 495B.
  - HSCI 595. Independent Study (2-4)
  - 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)
- Community Organization (4) SOC 434.
- SOC 575. Internship in Sociology (4)
- SOC 590. Seminar in Sociology: Aging (4)
- SOC 595. Independent Study (2-5)

#### Certificate in Social Services

#### Certificate Requirements (32 units)

- 1. SOC 100. The Study of Society (4)
- SOC 339. Socialization (4) 2.
- SOC 418. Sociology of Social Welfare (4) 3.
- SOC 434. Community Organization (4) 4.
- 5. SOC 436. Group Dynamics (4)
- Social Casework (4) SOC 484. 6.
- Internship in Sociology (4) for a total of (8) SOC 575. 7.

#### **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=D4) (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=E2) (2 units)

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#### 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**=A4) (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. Prerequisite: completion of the general education mathematics requirement. (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, 180 (or other course that meets the general education critical thinking requirement) and 301. (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. Prerequisites: SOC 307 and MATH 110, 115 or 120. (5 units)

#### 311. Sociological Theory

Sources of sociological theory and current trends in sociological analysis. (4 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)

#### 300 / Sociology

#### 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)

#### 425. Asian Americans: Origins and Ethnicity

Examines the origin countries, immigration patterns, adaptation to government policies, discrimination, and contemporary ethnic identity of Asians and Asian Americans. Formerly a topic under SOC 590. (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 sexrole 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. (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)

#### 525. Indian Nations and Native America

Reviews the 500 years of conquest, genocide, resistance, and survival, including the contemporary realities of indigenous peoples. Formerly a topic under SOC 590. (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

Supervised work and study in private or public organizations. A total of eight units may be applied toward the major; 12 units may be applied toward graduation requirements. Graded credit/no credit. Pre-requisites: consent of instructor and department. (4 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. (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 481.

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## **SPANISH**

#### Department of World Languages and Literatures

University Hall, Room 314

(909) 537-5847 http://flan.csusb.edu/

#### **Bachelor of Arts**

Spanish

Hispanic Literature, Language, and Civilization Track **Business Track** 

**Teaching Credential Program** 

Spanish

Minor

Spanish

#### **Certificate Programs**

Bilingual/Cross-Cultural Studies: Spanish/English Spanish for Public Services

#### Master of Arts

Spanish

(Degree requirements can be found on Page 482.)

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 World 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 Heritage/Native 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 Heritage/Native 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 - HISPANIC LITERATURE,** LANGUAGE AND CIVILIZATION TRACK **Requirements (82 units)**

Total units required for graduation: 180

#### Requirements for the B.A. in Spanish - Hispanic Literature, Language, and Civilization Track:

Language (28 units)

- 1. Proficiency in Spanish equal to that of SPAN 212/213 and 214. Students may verify proficiency through coursework in other colleges or universities or by a proficiency examination given the first two weeks of a course. Contact the Department of World Languages and Literatures for more information.
- 2. SPAN 302. Theory and Practice in Composition (4)
- SPAN 314. Advanced Conversation (4) 3.
- 4. SPAN 401. Phonetics (4)
- SPAN 402. Advanced Composition (4) 5.
- SPAN 415. Comparative Linguistics: Spanish/English (4) 6.
- 7 SPAN 416. Advanced Study of Semantics, Pragmatics, and Sociolinguistics (4)
- 8. 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 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)

#### Literature (24 units)

1.	SPAN 318.	Techniques of Literary Study and Analysis (4)
2.	Twelve units of	chosen from:
	SPAN 370.	Literature of the Conquest (4)
	SPAN 371.	Spanish Peninsular Literature from the Middle
		Ages to the Seventeenth Century (4)
	SPAN 372.	Modern Peninsular Literature (4)
	SPAN 373.	Modern Latin American Literature (4)
3.	Four units cho	osen from:
	SPAN 440.	Mexican Literature (4)
	SPAN 442.	Literature of the Southern Cone (4)
	SPAN 443.	Literature of the Caribbean (4)
	SPAN 445.	The Narrative of Spanish America (4)
	SPAN 446.	Literature of the Renaissance and the Spanish
		Golden Age (4)
	SPAN 447.	Romanticism and Realism in Spain (4)
	SPAN 448.	Twentieth Century Spanish Literature (4)
	SPAN 449.	Literature of the Indigenous Peoples of Spanish
		America (4)

#### 302 / Spanish

4.	Four units chosen from:		
	SPAN 515.	Seminar in Spanish Peninsular Literature,	
		Culture or Film (4)	
	SPAN 516.	Seminar in Spanish American Literature,	
		Culture or Film (4)	
Civ	vilization (12 uni	ts)	
1.	SPAN 410.	Spanish Peninsular Civilization (4)	

SPAN 412. Latin American Civilization (4)
 HUM 335. The Origin and Contemporary Role of Latino Culture (4)

Teaching and Non-teaching Option (4 units)

#### **Teaching Option**

1. FLAN 350. Language Acquisition and Early Field Experience for Future Teachers (4)

#### Non-Teaching Option

1. Four units chosen from Spanish upper-division literature or language courses

Practicum (4 units)

1. Four units chosen from:		
SPAN 394.	Practicum (2) for a total of (4)	
SPAN 399.	Departmental Service Project (1) for a total of (4)	
SPAN 575.	Internship for Service Learning (1-5) for a total of (4)	
	SPAN 394. SPAN 399.	

Electives (8 units)

1. Eight units chosen from any upper-division Spanish courses.

Assessments (2 units)

- 1. SPAN 395. Junior Assessment (1)
- 2. SPAN 496. Senior Assessment (1)

#### **B.A. IN SPANISH - BUSINESS TRACK**

#### **Requirements (82 units)**

#### Total units required for graduation: 180

## Requirements for the B.A. in Spanish - Business Track:

Language (24 units)

- Proficiency in Spanish equal to that of SPAN 212/213 and 214. Students may verify proficiency through coursework in other colleges or universities or by a proficiency examination given the first two weeks of a course. Contact the Department of World Languages and Literatures for more information.
- 2. SPAN 302. Theory and Practice in Composition (4)
- 3. SPAN 312B. Techniques for Professional Interpreting and Translating in Spanish: Public Services (4)
- 4. SPAN 314. Advanced Conversation (4)
- 5. SPAN 316D. Spanish for the Professions: Business (4)
- 6. SPAN 402. Advanced Composition (4)
- 7. SPAN 415. Comparative Linguistics: Spanish/English (4)

Literature (8 units)

- 1. SPAN 318. Techniques of Literary Study and Analysis (4)
- 2. Four units chosen from:
  - SPAN 370.Literature of the Conquest (4)SPAN 371.Spanish Peninsular Literature from the Middle<br/>Ages to the Seventeenth Century (4)SPAN 372.Modern Peninsular Literature (4)
  - SPAN 373. Modern Latin American Literature (4)
- Civilization (12 units)
- 1. SPAN 410. Spanish Peninsular Civilization (4)
- 2. SPAN 412. Latin American Civilization (4)
- 3. HUM 335. The Origin and Contemporary Role of Latino Culture (4)

Practicum (4 units)

SPAN 394.	Practicum (2) for a total of (4)
SPAN 399.	Departmental Service Project (1) for a total of (4)
SPAN 575.	Internship for Service Learning (1-5) for a total
	of (4)

Electives (8 units)

1. Eight units chosen from any upper-division Spanish courses.

Assessments (2 units)

- 1. SPAN 395. Junior Assessment (1)
- 2. SPAN 496. Senior Assessment (1)

#### Business (24 units)

- 1. ACCT 211. Introductory Accounting I (4)
- 2. INFO 102. Introduction to Information Technology (2)
- 3. INFO 103. Using Information Technology Applications (2)
- 4. MGMT 302. Management and Organizational Behavior (4)
- 5. MKTG 305. Marketing Principles (4)
- 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 142 or contact the Credentials Office (C.A.S.E.).

#### MINOR IN SPANISH

#### Requirements (28 units)

#### Requirements for a minor in Spanish:

- 1. Proficiency in Spanish equal to SPAN 150. Intermediate Spanish.
  - **Note:** Entering students with previous training in Spanish, and those who are heritage/native speakers, should contact the Department of World Languages and Literatures for information about advanced placement and credit by examination.
- 2. Twenty-eight additional units in Spanish courses, of which 20 units must be upper-division.

#### DEPARTMENTAL HONORS

- 1. Earned a 3.5 grade point average in the major.
- 2. Completed at least 45 units of the major at this university.
- 3. 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. See Page 55 for additional certificate information.

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# Certificate in Bilingual/Cross-Cultural Studies: Spanish/English

#### Certificate Requirements (32 units)

Lower-division requirements (4 units)

1. SPAN 212. Composition (4)

Upper-division requirements (28 units)

- 1. COMM 304. Intercultural Communication (4)
- 2. SPAN 318. Techniques of Literary Study and Analysis (4)
- 3. Eight units chosen from:
  - ART 328. Mexican Art (4)
  - ART 329. Chicano Art (4)
  - SPAN 415. Comparative Linguistics: Spanish/English (4)
  - SPAN 440. Mexican Literature (4)
- 4. Twelve units chosen from:
  - ANTH 354. Cultures of Mexico and Central America (4)
    ANTH 356. Cultures of South America (4)
    ANTH 388. Language and Culture (4)
    HIST 390. History of Modern Mexico (4)
    HIST 391. Chicano History (4)
    HIST 470. Modern Latin America (4)
    HUM 450. Aspects of Chicana/o 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 heritage/native speakers, should contact the Department of World Languages and Literatures for information about advanced placement and credit by examination.

Lower-division requirement (4 units)

- 1. SPAN 212. Composition (4)
- Upper-division requirements (24 units)
- 1. SPAN 302. Theory and Practice in Composition (4)
- 2. SPAN 312. Techniques for Professional Interpreting and
- Translating in Spanish (4)
- 3. SPAN 314. Advanced Conversation (4)
- 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)
5.	Four units cho	osen from:
	SPAN 440.	Mexican Literature (4)
	SPAN 442.	Literature of the Southern Cone (4)
	SPAN 443.	Literature of the Caribbean (4)
	SPAN 445.	The Narrative of Spanish America (4)
	SPAN 446.	Literature of the Renaissance and the Spanish
		Golden Age (4)
	SDAN 447	Pomantician and Paalian in Spain (1)

- SPAN 447. Romanticism and Realism in Spain (4)
- SPAN 448. Twentieth Century Spanish Literature (4)
- SPAN 449. Literature of the Indigenous Peoples of Spanish America (4)
- 6. 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 World 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. (SPAN 101+102+150= **CAN** SPAN SEQ A) (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**=C3) (SPAN 101+102+150=**CAN** SPAN SEQ A) (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**=C3) (SPAN 101+102+150=**CAN** SPAN SEQ A) (4 units)

## 155. Intermediate Spanish for Heritage/Native 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**=C3) (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**=C3) (4 units)

#### 213. Composition for Heritage/Native 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**=C3) (4 units)

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#### 304 / Spanish

#### 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**=C3) (4 units)

#### 290. Spanish and Latin American Literature in English

Introduction to Hispanic literature read in English translation. (GE=C3) (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)

#### 370. Literature of the Conquest

Readings from Latin American literature from the fifteenth through the seventeenth centuries. Prerequisites: SPAN 302, 318 and 395. (4 units)

#### 371. Spanish Peninsular Literature from the Middle Ages to the Seventeenth Century

Readings from the origins of Spanish literature through the Golden Age. Prerequisites: SPAN 302, 318 and 395. (4 units)

#### 372. Modern Peninsular Literature

Readings in Spanish peninsular literature from the eighteenth century to the present. Prerequisites: SPAN 302, 318, and 395. (4 units)

#### 373. Modern Latin American Literature

Readings in Latin American literature from the eighteenth century to the present. Formerly SPAN 392. Prerequisites: SPAN 302, 318, 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 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)
- E. Writing Center (2 units)

#### 395. Junior Assessment

Assessment of the student's knowledge of the five basic language skills (listening, speaking, reading, writing and culture) based on defined performance standards. Satisfactory completion will be required for enrollment in all other upper-division courses in Spanish (excluding SPAN 435). 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)

#### 398. Survey of Classical and Contemporary Hispanic Films

Analysis of selected classical and contemporary Hispanic films from production of major studios to avante-garde artists. Explores important themes as well as significant directors and their unique use of photography, music, literature, and scripting. Each topic may be taken once for credit. Prerequisites: SPAN 302 and 395, or consent of instructor.

- Films from Spain. Class conducted in Spanish and films in Spanish. (2 units)
- B. Films from Latin America. Class conducted in Spanish and films in Spanish. (2 units)
- C. Classical and Contemporary Films from Spain, Latin America, and the United States. Class conducted in English and films screened in English or with English subtitles. (2 units)
- D. Films from Spain and Latin America. Class conducted in Spanish with films screened from Spain and Latin America. (2 units)
- E. Significant Director or Theme of Hispanic Film. Class conducted in Spanish with films from Spain, Latin America and United States. (2 units)

#### 399. Departmental Service Project

Credit for performing academically related tasks within the Department of World 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)

#### 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)

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#### 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)

## 416. Advanced Study of Semantics, Pragmatics and Sociolinguistics

Semantics, pragmatics, and discourse in Spanish, with consideration of social factors in language use, variation and change. Prerequisites: SPAN 302, 395 and 415. (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 302, 318, 395 and one class from the SPAN 370 series. (4 units)

#### 442. Literature of the Southern Cone

Survey of the literature of Argentina, Uruguay and Chile from the sixteenth century to the present. Prerequisites: SPAN 302, 318, 395 and one class from the SPAN 370 series. (4 units)

#### 443. Literature of the Caribbean

Survey of the literature of the Spanish-speaking Caribbean region from the sixteenth century to the present. Prerequisites: SPAN 302, 318, 395 and one class from the 370 series. (4 units)

#### 445. The Narrative of Spanish America

Survey of the narrative of Spanish America from the nineteenth century to the present. Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series. (4 units)

## 446. Literature of the Renaissance and the Spanish Golden Age

Survey of Spanish peninsular literature from the fifteenth through the seventeenth century. Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series. (4 units)

#### 447. Romanticism and Realism in Spain

Survey of Spanish peninsular literature of the nineteenth century. Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series. (4 units)

#### 448. Twentieth Century Spanish Literature

Survey of contemporary Spanish fiction, poetry and essay. Prerequisites: SPAN 302, 318, 395, and one class from the SPAN 370 series. (4 units)

#### 449. Literature of the Indigenous Peoples of Spanish America

Survey of oral and written literature of selected indigenous peoples of Spanish America prior to 1492. Prerequisites: SPAN 302, 318, 395 and one class from the SPAN 370 series. (4 units)

#### 496. Senior Assessment

Assessment of student's oral and written proficiency in Spanish. Includes written exam based on the student's upper-division Spanish courses and a research paper examining a theme from Spanish literature, linguistics or civilization. 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)

#### 515. Seminar in Spanish Peninsular Literature, Culture or Film

Advanced study of the literature and culture of Spain. May be repeated as topics change. Prerequisites: SPAN 302, 318, 395; one class from the SPAN 370 series; and one class from the SPAN 440 series.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Culture (4 units)
- G. Film (4 units)

#### 516. Seminar in Spanish American Literature, Culture or Film

Advanced study of the literature and culture of Spanish America. May be repeated as topics change. Prerequisites: SPAN 302, 318, 395; one class from the SPAN 370 series; and one class from the SPAN 440 series.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Culture (4 units)
- G. Film (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. (1 to 5 units)

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## SPECIAL MAJOR

#### Office of the Dean of Undergraduate Studies

## University Hall, Room 368

(909) 537-5032 http://www-ugs.csusb.edu/

#### **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 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-de-signed major.

Although the Special Major is a unique program that suits individual goals, has potential to combine fields and functions, 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. In particular, students who will be seeking a teaching credential should consult with faculty in the College of Education to see how a Special Major might impact subject matter requirements for teachers.

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 Dean of Undergraduate Studies 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.
- 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 committee.
- 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 is it available to students pursuing a second bachelor's degree.
- 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:**

- 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 minimum 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.

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- On the form provided, list the lower-division support courses which were taken 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.)
- 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 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)
- ART 238. Production of Visual Information Design (4)
   Four units chosen from:
  - 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)

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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 47to Business (4)
MKTG 575.	Internship in Marketing (4)
MKTG 590.	Seminar in Marketing (4)

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## SUPPLY CHAIN MANAGEMENT

#### **Decision Sciences**

Jack Brown Hall, Room 460 (909) 537-5723 http://ids.csusb.edu/

**FACULTY:** Anand Bhatia (Emeritus), Harold Dyck, Kamvar Farahbod, Barbara Sirotnik, Jay Varzandeh, Walt Stewart (Chair)

The university offers a concentration in supply chain management within the Bachelor of Arts in Administration and the Master of Business Administration. The details of these programs are listed under Administration on Page 69 and the Master of Business Administration on Page 343. 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		
SUPPLY CHAIN MANAGEMENT	(SCM)	

#### Lower Division

#### 205. Enterprise Systems

Foundation for enterprise systems resource planning and implementation, including supply chain management modeling and operations planning. Students will learn to configure and apply an enterprise systems software. Prerequisites: INFO 102 and 103. (4 units)

#### 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: PSYC 210, SSCI 215 or SCM 210. Formerly MSCI 210. Three hours lecture and two hours activity laboratory. (4 units)

#### **Upper Division**

#### 304. Principles of Supply Chain Management

Introduction to supply chain 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 and OM 304. Prerequisites: MATH 110 or 120 and SCM 210. (4 units)

#### 350. Applied Decision Analysis

Discussion and application of a decision-analysis framework for addressing organizational decisions. Topics include sampling and data gathering, statistical inference, regression analysis for forecasting, risk analysis, simulation, and optimization modeling. Prerequisite: SCM 304. (4 units)

#### 405. Advanced Enterprise Systems

Advanced study of enterprise systems planning in different stages of organizational operations. Students use enterprise planning technology to examine cases in different organizational settings. Prerequisites: SCM 205 and 304. (4 units)

#### 440. Transportation Systems Management

Analysis of alternative transportation modes, carriers, services, rates and policies as related to overall operation of an organization's shipping and/or traffic departments. Formerly MKTG 452. Prerequisite: SCM 304.. (4 units)

#### 466. Operations Planning and Control

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. Formerly OM 466. Prerequisite: SCM 304. (4 units)

#### 470. Supply Chain Management

Comprehensive study of all activities and processes to supply products or services to final customers. Topics include: purchasing, logistics and supply chain optimization, inventory control, warehouse and distribution management. Formerly OM 470. Prerequisite: SCM 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. Formerly OM 480. Prerequisite: SCM 304. (4 units)

#### 490. Logistics Strategy

Development, implementation and integration of logistics and functional strategies of organizations. Capstone course for the fields of supply chain and transportation. Application of logistics will be explored through case studies and application of current technology. Prerequisite: completion of all other courses in concentration program. (4 units)

#### 575. Internship in Supply Chain Management

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

#### 590. Seminar in Supply Chain Management

An intensive study of some phase of supply chain management to be developed by the instructor. May be repeated for credit as topics change. Formerly MSCI 590. (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. Formerly MSCI 595. (2 or 4 units)

## THEATRE ARTS

#### **Department of Theatre Arts**

Performing Arts Building, Room 111 (909) 537-5876 http://cal.csusb.edu/Depts/TheatreArts/

#### **Bachelor of Arts**

Theatre Arts with emphases in: Acting Dance Design/Technical Drama Education Musical Theatre

#### **Teaching Credential Program**

English with a Theatre Arts Concentration

#### Minor

Script Writing Theatre Arts

#### **Certificate Program**

Theatre for Youth

#### Master of Arts

Theatre Arts

(Degree requirements can be found on Page 485.)

**FACULTY:** Michelle Ebert, Kathryn Ervin (Interim Chair), Lee Lyons, Margaret Perry, William Peterson, Thomas Provenzano, 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 teaching.

The Theatre Arts Department produces five major plays during the academic year. The department also presents several student directed/designed productions. In addition, the department has touring groups including 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,drama education, dance, or musical theatre. Students interested in Theatre for Youth, see certificate program described on Page <u>312</u>.

#### **B.A. IN THEATRE ARTS**

#### Requirements (83 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) Two units chosen from: 2 Beginning Theatre Movement (2) TA 245. TA 253. Voice for the Stage (2) 3. TA 251. Acting I: Games and Exercises (3) Acting II: Creating a Role (3) 4. TA 252. 5. Nine units chosen from: TA 131. Makeup for Stage and Screen (3) TA 231. Sound for Stage and Screen (3) TA 232. Lighting for Stage and Screen (3) TA 233. Costume Construction (3) TA 239. Stagecraft (3) Upper-division requirements (43 units) 1. TA 302B. Analysis and Writing of Drama (4) Theatre Management (4) 2. TA 331. 3. TA 346. Directing I (3) TA 351. Acting III: Scene Study (3) 4 Theatre History I: Origins Through Medieval (4) 5. TA 361. 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: Technical Practicum (1) TA 321A TA 321B. **Technical Practicum (2)** 10. Four units chosen from: TA 450. Classical Drama (4) Mystery to Melodrama (4) TA 451. TA 463. Asian Theatre (4) TA 475. Shakespeare I (4) TA 476. Shakespeare II (4) 11. Four units chosen from: TA 401. History of 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 464. Theatre of the Post-Colonial World (4) TA 466. Issues in Gay, Lesbian, Bisexual and Transgender Theatre (4) TA 468. Chicana/o and U.S. Latina/o Theatre (4) 12. TA 585. Senior Assessment (1)

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#### 310 / Theatre Arts

Emphases (19 units)

Nineteen units chosen from one of the following emphases which were not chosen as part of the core:

#### Acting Emphasis

- 1. Two units chosen from the following courses, which were not chosen as part of the lower-division core:
- Beginning Theatre Movement (2) TA 245.
- TA 253. Voice for the Stage (2)
- 2. TA 240. Improvisation (3)
- 3. TA 345. Advanced Voice and Movement (2)
- 4. Twelve units chosen from:
  - TA 352. Acting IV: Modern Repertory (3)
    - TA 353. Acting V: Styles of Acting (3)
    - Acting VI: Acting Shakespeare (3) TA 354.
    - Acting VII: Acting Musicals (3) TA 355.
    - Acting for the Camera (3) TA 357.
    - TA 446. Directing II (3)

#### **Dance Emphasis**

- 1. Twelve units (at least six of which must be upper division) 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)
  - Dance Techniques: Jazz (2) DAN 300A.
  - DAN 300B. Dance Techniques: Modern (2)
  - DAN 300C. Dance Techniques: Tap (2)
  - DAN 300D. Dance Techniques: Ballet (2)
  - Dance Techniques: Musical Theatre (2) DAN 300E.
  - DAN 310A. World Dance Traditions: African (2)
  - DAN 310B. World Dance Traditions: South and Central American (2)
  - DAN 310C. World Dance Traditions: North American (2)
  - DAN 310D. World Dance Traditions: Asian (2)
  - DAN 310F. World Dance Traditions: Mediterranean (2)
- 2. Seven units chosen from:
  - DAN 355. Dance Notation (3)
  - Dance History (4) DAN 360.
  - DAN 450. Choreography (3) DAN 481. Creative Dance in the Classroom (4)
  - Acting VII: Acting Musicals (3) TA 355.
  - History of Musical Theatre (4) (if not taken as TA 401. part of upper-division core) Asian Theatre (4) TA 463.
- **Design/Technical Emphasis**
- Computer Applications for Technical Theatre (1) 1. TA 130. for a total of (2)
- 2. TA 334. Theatrecrafts (3) for a total of (6)
- 3. Three units chosen from:
  - Makeup for Stage and Screen (3) TA 131.
  - TA 231. Sound for Stage and Screen (3)
  - Lighting for Stage and Screen (3) TA 232.
  - Costume Construction (3) TA 233.
  - TA 239. Stagecraft (3)
- 4. Six units chosen from:
  - TA 332. Stage Lighting Design (3)
  - TA 333. Stage Sound Design (3)
  - TA 337. Design: Costume Design (3) Design: Scene Design (3)
- TA 338.
- 5. Two units chosen from:
  - TA 321A. Technical Practicum (1)
  - TA 321B. Technical Practicum (2) TA 535.
    - Independent Project (1-4)

#### **Drama Education Emphasis**

- Creative Dance in the Classroom (4) 1. DAN 481.
- TA 481. Creative Drama in the Classroom (3) 2.
- 3. Twelve units chosen from:
  - Advanced Creative Dance Methods (4) DAN 580. TA 240. Improvisation (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) Readers Theatre in the Classroom (3) TA 484. Puppetry in the Classroom (3) TA 486. 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)

#### **Musical Theatre Emphasis**

Emphasis requires a placement examination administered by the Department of Music (proficiency in music fundamentals equal to that of MUS 100 and 101).

- DAN 300E. Dance Techniques: Musical Theatre (2) 1.
- 2. Six units chosen from:
  - MUS 206. Class Voice (1)
    - Lower-Division Voice II (1) MUS 240.
  - Music Theatre Production (2) MUS 302.
  - MUS 385. Concert Choir (1)
  - MUS 386. Chamber Singers (1)
  - Opera Workshop (1) MUS 387.
  - MUS 392. Show Choir (1)
  - Symphonic Choir (1) MUS 395.
  - MUS 396. Reverence Singers (1)
- 3. TA 355. Acting VII: Acting Musicals (3)
- TA 401. History of Musical Theatre (4) (cannot be taken 4. as part of upper division core)
- 5. Four units chosen from:
  - Studies in Dance: Jazz (2) DAN 200A.
  - DAN 200B. Studies in Dance: Modern (2)
  - DAN 200C. Studies in Dance: Tap (2)
  - Studies in Dance: Ballet (2) DAN 200D.
  - DAN 300A. Dance Techniques: Jazz (2)
  - DAN 300B. Dance Techniques: Modern (2)
  - DAN 300C. Dance Techniques: Tap (2)
  - DAN 300D. Dance Techniques: Ballet (2)

#### **TEACHING CREDENTIAL PROGRAM**

#### Teaching Credential Program in English -**Theatre Arts Concentration**

Note: This program is being revised to meet the new CCTC standards. The requirements below apply only to students under the 2004-2005 or earlier catalog.

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 155), as well as the following:

- 1. Four units chosen from:
- COMM 245. Introduction to TV and Video Production (4) CSCI 127. Introduction to Computer Technology for Educators (4) 2. Four units chosen from:
- ENG 312. Theories of Language Acquisition and Learning (4)
- ENG 420. English Grammar I (4)

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- 3. Four units chosen from:
  - ENG 306. Expository Writing (4)
  - HUM 306. Expository Writing for the Humanities (4)
- 4. Six units chosen from:
  - TA 131. Makeup for Stage and Screen (3)
  - TA 231. Sound for Stage and Screen (3)
  - TA 232. Lighting for Stage and Screen (3)
  - TA 233. Costume Construction (3)
  - TA 239. Stagecraft (3)
- 5. TA 251. Acting I: Games and Exercises (3)
- 6. TA 252. Acting II: Creating a Role (3)
- 7. TA 351. Acting III: Scene Study (3)
- 8. TA 346. Directing I (3)
- 9. 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 142 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 SCRIPT WRITING

#### Requirements (28 units)

#### **Requirements for a minor in Script Writing:**

Lower-division requirement (4 units)

1.	Four units ch	iosen from:
	HUM 180.	The Art of Film (4)
	TA 260.	Introduction to Theatre (4)

Upper-division requirements (24 units)

1.	COMM 347.	Fundamentals of Screenwriting (4)	
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- 2. Four units chosen from: ENG 302B. Analysis and Writing of Drama (4) TA 302B. Analysis and Writing of Drama (4) TA 347. Playwriting (4) 3. 4. Four units chosen from: Introduction to Creative Writing: Specialized ENG 316. Genres (4) ENG 317. Introduction to Creative Writing: Poetry (4) ENG 318. Introduction to Creative Writing: Fiction (4)
  - ENG 318. Introduction to Creative Writing: Fiction (4)
- 5. ENG 513. Advanced Creative Writing: Specialized Genres (4)
- 6. Four units chosen from:
  - COMM 343. Nonfiction Reporting and Writing (4) COMM 380. Visual Communication (4)
  - COMM 381. Development of Motion Pictures (4)
  - ENG 315. Studies in a Literary Genre (4)
  - ENG 463. Advanced Studies in Literary Topics (4)
  - TA 465. Ethnic Film and Filmmakers (4)
  - **Note:** Students are able to receive credit for summer arts courses pertaining to the minor.

## MINOR IN THEATRE ARTS

#### Requirements (24 units)

#### Requirements for a minor in Theatre Arts:

Lower-division requirement (4 units)

1. TA 260. Introduction to Theatre (4)

Upper-division requirement (2 units)

1. 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**

- 1. TA 251. Acting I: Games and Exercises (3)
- 2. TA 252. Acting II: Creating a Role (3)
- 3. TA 351. Acting III: Scene Study (3)
- 4. Nine units chosen from:
  - TA 131. Makeup for Stage and Screen (3)
  - TA 240. Improvisation (3)
  - TA 245. Beginning Theatre Movement (2)
  - TA 253. Voice for the Stage (2)
  - TA 345. Advanced Voice and Movement (2)
  - TA 346. Directing I (3)
  - TA 352. Acting IV: Modern Repertory (3)
  - TA 353. Acting V: Styles of Acting (3)
  - TA 354. Acting VI: Acting Shakespeare (3) TA 355. Acting VII: Acting Musicals (3)
  - TA 355. Acting VII: Acting Musicals (3) TA 357. Acting for the Camera (3)
  - TA 446. Directing II (3)
    - 446. Directing II (3

#### Dance Emphasis

1.	Ten units chos	sen 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)
	DAN 310A.	World Dance Traditions: African (2)
	DAN 310B.	World Dance Traditions: South and Central
		American (2)
	DAN 310C.	World Dance Traditions: North American (2)
	DAN 310D.	World Dance Traditions: Asian (2)
	DAN 310E.	World Dance Traditions: Mediterranean (2)
2.	Eight units cho	osen from:
	DAN 355.	Dance Notation (3)
	DAN 360.	Dance History (4)
	DAN 450.	Choreography (3)
	DAN 481.	Creative Dance in the Classroom (4)
	DAN 580.	Advanced Creative Dance Methods (4)
	TA 131.	Makeup for Stage and Screen (3)
	TA 231.	Sound for Stage and Screen (3)
	TA 232.	Lighting for Stage and Screen (3)
	TA 233.	Costume Construction (3)

- TA 233. Costume Construction (3) TA 240. Improvisation (3)
- TA 240. Improvisation (3)

#### TA 245. Beginning Theatre Movement (2)

#### **Design/Technical Emphasis**

- 1. TA 235. Fundamentals of Stage Design (4)
- 2. Six units chosen from:
  - TA 131. Makeup for Stage and Screen (3)
  - TA 231. Sound for Stage and Screen (3)
  - TA 232. Lighting for Stage and Screen (3)

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	TA 233.	Costume Construction (3)
	TA 239.	Stagecraft (3)
3.	Eight units ch	
	TA 130.	Computer Applications for Technical Theatre (1)
	TA 321A.	Technical Practicum (1)
	TA 321B.	Technical Practicum (2)
	TA 331.	Theatre Management (4)
	TA 332.	Stage Lighting Design (3)
	TA 334. TA 337.	Theatrecrafts (3) Design: Costume Design (3)
	TA 338.	Design: Scene Design (3)
	TA 535.	Independent Project (1-4)
Dr	ama Educatio	
1.	DAN 481.	Creative Dance in the Classroom (4)
2.	TA 481.	Creative Drama in the Classroom (3)
3.	Eleven units of	
	DAN 580.	Advanced Creative Dance Methods (4)
	TA 240.	Improvisation (3)
	TA 251.	Acting I: Games and Exercises (3)
	TA 320A.	Performance Practicum: Main Stage (2)
	TA 320B.	Performance Practicum: Imagination Players (2)
	TA 320C.	Performance Practicum: Touring Theatre (2)
	TA 321A.	Technical Practicum (1)
	TA 321B.	Technical Practicum (2)
	TA 385. TA 483.	Acting for Non-Majors (4) Children's Theatre (4)
	TA 484.	Readers Theatre in the Classroom (3)
	TA 486.	Puppetry in the Classroom (3)
	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)
Dr	amatic Literati	ure Emphasis
1.	Eight units ch	osen from:
	TA 302B.	Analysis and Writing of Drama (4)
	TA 347.	Playwriting (4)
_	TA 505.	Criticism of Theatre in Performance (4)
2.	Eight units ch	
	TA 450.	Classical Drama (4)
	TA 451. TA 455.	Mystery to Melodrama (4)
	TA 455. TA 456.	Modern Drama I (4) 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 in the Post-Colonial World (4)
	TA 466.	Issues in Gay, Lesbian, Bisexual and
		Transgender Theatre (4)
	TA 468.	Chicana/o and Latina/o Theatre and Drama (4)
	TA 475.	Shakespeare I (4)
3.	TA 476. Two units cho	Shakespeare II (4)
Э.	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)

TA 535. Independent Project (1-4)

#### **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. See Page 55 for additional certificate information.

#### **Certificate in Theatre for Youth**

#### Certificate Requirements (32 units)

- 1. TA 481. Creative Drama in the Classroom (3)
- 2. TA 483. Children's Theatre (4)
- 3. Six units chosen from:
  - TA 240. Improvisation (3)
  - TA 484. Readers Theatre in the Classroom (3)
  - TA 486. Puppetry in the Classroom (3)
  - TA 446 Directing II (3)
- 4. Four units chosen from:
  - 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)
- 5. Four units chosen from:

- 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 385. Acting for Non-Majors (4)
- 6. Three units chosen from:
  - TA 131. Makeup for Stage and Screen (3)
  - TA 231. Sound for Stage and Screen (3)
  - TA 232. Lighting for Stage and Screen (3)
  - TA 233. Costume Construction (3)
  - TA 235. Fundamentals of Stage Design (4)
  - TA 239. Stagecraft (3)
  - TA 321A. Technical Practicum (1)
  - TA 321B. Technical Practicum (2)
  - TA 334. Theatrecrafts (3)
- 7. Eight units chosen from:
  - TA 221. Theatre Laboratory: Performance (1)
  - TA 347. Playwriting (4)
  - TA 446. Directing II (3)
  - TA 461. American Drama (4)
  - TA 462. African-American Theatre and Drama (4)
  - TA 463. Asian Drama (4)
  - TA 466. Issues in Gay, Lesbian, Bisexual and Transgender Theatre (4)
  - TA 468. Chicana/o and Latina/o Theatre and Drama (4)
  - TA 510. Studies of Major Figures and Genres (4)
  - TA 520. Theatre Seminar (4)

#### COURSE OFFERINGS IN

THEATRE ARTS (TA)

#### Lower Division

#### 130. Computer Applications for Technical Theatre

Introduction to computer programs and techniques with applications for theatrical design and production. May be repeated for credit. (1 unit)

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#### 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=C2) (4 units)

#### 212. Oral Interpretation of Literature

Literary and aesthetic analysis of poetry, prose or drama through performance techniques of oral interpretation. (**GE**=C2) (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)

#### 231. Sound for Stage and Screen

Basic design theories of stage and screen sound, production techniques, instrumentation and control equipment. (3 units)

#### 232. Lighting for Stage and Screen

Basic electrical theory of stage lighting, 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. (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

Introduction to the art of Theatre, including the nature of theatrical presentation and the contributions of the playwright, actor, director, designer, technician and audience to the process of theatremaking. Students will authentically experience this process as production crew or audience members. (**GE**=C1) (TA 260=**CAN** DRAM 18) (4 units)

#### **Upper Division**

#### 302. Analysis of Drama

Credit allowed for only one of the following:

- A. Analysis. Literary analysis of selected plays with special emphasis on how to write about dramatic literature. Formerly TA 302. (Also offered as ENG 302A. Students may not receive credit for both.) Prerequisite: ENG 101. (4 units)
- B. Analysis and Writing. Literary analysis of selected plays with special emphasis on how to write about dramatic literature, as well as integrated practice in writing for performance. (Also offered as ENG 302B. Students may not receive credit for both.) Prerequisite: ENG 101. (4 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 four units of TA 320 and 321 may be counted toward fulfilling course requirements in the theatre arts major. 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)

#### 314 / Theatre Arts

#### 332. Stage Lighting Design

Lighting design theories and emerging technologies. Light plots for various theatrical styles will be developed. May be repeated for credit. Prerequisites: TA 232 and 235. (3 units)

#### 333. Stage Sound Design

Advanced theories and applications of sound design for the theatre with an emphasis on the integration of prerecorded sound effects with vocal reinforcement in a live performance environment. Prerequisite: TA 231. (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. Pre-requisite: 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. Prerequisite: TA 351 or consent of instructor. (3 units)

#### 347. Playwriting

Fundamentals of play development, including plot, character, structure, and theme. Students will create individual scripts. (Also offered as ENG 347. Students may not receive credit for both.) Prerequisite: one course from ENG 302A, 302B, TA 302A, 302B; 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. Prerequisite: TA 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. Pre-requisite: TA 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. Prerequisite: TA 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. 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)

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#### 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**=G2) (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. (**GE**=G2) (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)

#### 468. Chicana/o and U.S. Latina/o Theatre

Introduction to Chicana/o and Latina/o dramatic literature and performance in the U.S. (1965-present). Examines diverse factors associated with the birth and development of Chicana/o and Latina/o theatre. (4 units)

#### 475. Shakespeare I

Comedies and history plays. (Also offered as ENG 475. Students may not receive credit for both.) Prerequisite: one course from ENG 301A, 301B, 302A, 302B; or consent of instructor. (4 units)

#### 476. Shakespeare II

Tragedies and romances. (Also offered as ENG 476. Students may not receive credit for both.) Prerequisite: one course from ENG 301A, 301B, 302A, 302B; or consent of instructor. (4 units)

#### 481. Creative Drama in the Classroom

Introduction to theory and practice of creative drama. Concentration, imagination and self-expression are emphasized in lesson planning as creative drama is used as a teaching tool across the curriculum. Designed in accordance with California and National standards for the arts. Two hours lecture and two hours of fine arts activity. (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

Theory and techniques of adapting, directing and performing non-dramatic children's literature for oral presentation and limited staging. Includes preparation and performance of scripts to be used for reading enhancement and interdisciplinary studies. Designed in accordance with California and National standards for the arts. Two hours lecture and two hours fine arts activity. (3 units)

#### 486. Puppetry in the Classroom

Survey of the forms and applications of puppets around the world, with emphasis on using puppetry as an interdisciplinary teaching tool. Emphasis on exploring puppetry from an international perspective and analyzing educational approaches for a wide range of ages and abilities. Two hours lecture and two hours fine arts activity. (3 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

Advanced study of a selected theatre topic. 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 six units may apply toward the major, a total of 12 units may apply toward graduation. Prerequisite: consent of instructor. (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 six 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. (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)

#### 316 / Theatre Arts

#### 580. Advanced Creative Drama in the Classroom

Advanced methods of teaching across the curriculum using processoriented 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)

	FERINGS IN DANCE (DAN)	
COURSE OF	FERINGS IN DANCE (DAN)	
DAN 200.	Studies in Dance (2)	
DAN 300.	Dance Techniques (2)	
DAN 310.	World Dance Traditions (2)	
DAN 355.	Dance Notation (3)	
DAN 360.	Dance History (4)	
DAN 450.	Choreography (3)	
DAN 481.	Creative Dance in the Classroom (4)	
DAN 580.	Advanced Creative Dance Methods (4)	
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See Page 130 for full course descriptions.

## UNIVERSITY HONORS PROGRAM

#### **University Honors Office**

Pfau Library, Room 208 (909) 537-7765

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;
- Priority registration;
- 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.

#### 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)
- Eight additional upper-division units chosen from honorsdesignated 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**=A1, A2, A4)

- 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

(909) 537-5032 http://www-ugs.csusb.edu/

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. (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 academically prepared students 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

Introduction to the university's history and its mission to enhance the intellectual, cultural and personal development of each student. Application of the First-Year Student Success principles which include: developing academic and intellectual competence; establishing and maintaining interpersonal relationships; developing personal identity; deciding on a major, career and lifestyle; maintaining personal health and wellness; developing an integrated multicultural philosophy of life. Students will develop necessary academic and practical skills through use of university support facilities; learning campus policies and procedures; strengthening study skills; understanding the community service learning concept; and developing responsible academic and personal attitudes for student success. 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)

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## **VOCATIONAL EDUCATION**

Chaparral Hall, Room 123C

(909) 537-5290 HTTP://VE.CSUSB.EDU

#### Bachelor of Science

Vocational Education

#### **Bachelor of Vocational Education (BVE)**

#### Master of Arts

Career and Technical Education Option (Degree requirements can be found on Page 373.)

FACULTY: Ron Pendleton, Joseph Scarcella

#### **B.S. 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:

- Successfully pass the National Occupational Competency Examination (NOCE) in a specialization;
- An Associate of Arts Degree from a regionally accredited institution in an approved vocational subject field;
- 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.
  - 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
  - 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 66.

#### **Degree Requirements (48 units)**

1.	ETEC 544.	Design and Development of Instructional Materials I (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 Sul
- 4. EVOC 509. Personnel Management in Designated Subjects Programs (4)
- 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. Learning Theory and Instructional Research Applied to Adult Learners (4)
- Four units chosen from: MGMT 302. Management and Organizational Behavior (4) PSYC 302. Management and Organizational Behavior (4)
   MCMT 455 Human Resources Management (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**

- Students must complete a minimum of 180 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.

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- b. At least 60 of these units must be in upper-division course work;
- Eighty-two of these units must be in the area of general education as specified in the general education requirements, Page 63;
- 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;
- 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;
- Students must complete the upper-division writing requirement (EDUC 306);
- Students must complete the history, constitution and government requirements (see Page 66);
- 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 free 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 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. 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: EVOC 501 or its equivalent. (4 units)

#### 322 / Vocational Education

#### 521. Assessing Vocational Student Progress

The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Pre-requisite: 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. Prerequisites: EVOC 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. (1 to 4 units)

## WOMEN'S STUDIES

#### **College of Social and Behavioral Sciences**

#### Women's Studies Program

University Hall, Room 201.46 (909) 537-5838 http://womensstudies.csusb.edu

#### Minor

Women's Studies

#### **Certificate Program**

Women's Studies

#### COORDINATOR: Aurora Wolfgang

The university offers a minor and certificate program in Women's Studies. The program combines a variety of disciplines to explore issues of gender and sexuality from a feminist perspective. Moreover, the program seeks to understand how discrimination based on the intersections of sex, gender, race, ethnicity, class and sexual orientation affects us all. By approaching the study of gender from multiple perspectives—from many disciplines, with theory and through practice, and from women's as well as lesbian, gay, bisexual, and transgender perspectives—it becomes evident how feminist studies help us to propagate our abilities to rectify injustices and create a more equitable society. Students should consult with the coordinator when choosing elective courses.

#### **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 chosen from one of the following concentrations:
- **General Women's Studies Emphasis**

1.			
	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.	Gender and Communication (4)	
	COMM 511.	Feminist Contributions to Communication Theories (4)	
	COMM 585.	Topics in Human Communication:	
		Gay/Lesbian Relationships (4)	
	CJUS 451.	Women and Crime (4)	
	CJUS 462.	Domestic Violence and the Criminal Justice	
		System (4)	
	ECON 333.	Political Economy of Women: Money, Sex, Race,	
		and Power (4)	
	May choose o	nly one of the following two courses:	
	ECON 35		
		Bisexuals, and Transgendered People (4)	
	WSTD 35		
	NOTE OF	Bisexuals, and Transgendered People (4)	
	ENG 319.	Studies in Literary Diversity: Gay Literature (4)	
	ENG 319.	Studies in Literary Diversity: Lesbian	
	LING 513.	Literature (4)	
	ENG 321.	Studies in Language and Linguistics: Language	
	ENG 321.	and Gender (4)	

		nly one of the following two courses:		
	ENG 336.			
		6. Women Writers (4)		
	FLAN 320.	Masterpieces of Literature: Hispanic Women		
		Writers (4)		
	FREN 336.	Francophone Women Writers (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)		
		nly one of the following three courses:		
	HUM 325.			
	NSCI 325.			
	SSCI 325.			
	PHIL 364.	Philosophy of Race and Ethnicity (4)		
	PHIL 367.	Gender and Philosophy (4)		
	PSCI 340.	Sex and Politics (4)		
	PSYC 331.	The Psychology of Women (4)		
	PSYC 341.	Women and Violence (4)		
	PSYC 349.	The Psychology of Gays and Lesbians (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 Emphasis				
1	WSTD 103	Introduction to Leshian, Gay, Risexual, and		

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) May choose only one of the following two courses: ECON 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4) WSTD 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (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.

#### Literature, Media and the Arts Emphasis

1. Twelve units chosen from: ART 305. Women and Art (4) COMM 401. Gender, Race and Media (4) COMM 411. Gender and Communication (4) Feminist Contributions to Communication COMM 511. Theories (4) COMM 585. Topics in Human Communication: Gay/Lesbian Relationships (4) ENG 319. Studies in Literary Diversity: Gay Literature (4) Studies in Literary Diversity: Lesbian ENG 319. Literature (4) ENG 321. Studies in Language and Linguistics: Language and Gender (4)

#### 324 Women's Studies

	May choose only one of the following two courses:		
	ENG 336.	Women Writers (4)	
	WSTD 336		
	FLAN 320.	Masterpieces of Literature: Hispanic Women	
	FREN 336.	Writers (4) Francophone Women Writers (4)	
		aly one of the following three courses:	
	HUM 325.		
	NSCI 325.	Perspectives on Gender (4)	
	SSCI 325.		
	PHIL 364.	Philosophy of Race and Ethnicity (4)	
	PHIL 367.	Gender and Philosophy (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)	
2.		bsen from any other Women's Studies course or	
۷.	cross-listed ele		
Sol		al Justice Emphasis	
1.	Twelve units cl	-	
١.	ANTH 333.	Sex and Gender in Cross-Cultural	
	ANTT 555.	Perspective (4)	
	CJUS 451.	Women and Crime (4)	
	CJUS 462.	Domestic Violence and the Criminal Justice	
		System (4)	
	ECON 333.	Political Economy of Women: Money, Sex, Race,	
		and Power (4)	
		nly one of the following two courses:	
	ECON 357	· · · · · · · · · · · · · · · · · · ·	
		Bisexuals, and Transgendered People (4)	
	WSTD 357	<ol> <li>Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People (4)</li> </ol>	
	HIST 344.	Women in U.S. History: 1620-1865 (4)	
	HIST 345.	Women in U.S. History: 1865-Present (4)	
		nly one of the following three courses:	
	HUM 325.		
	NSCI 325.		
	SSCI 325.	Perspectives on Gender (4)	
	PSCI 340.	Sex and Politics (4)	
	PSYC 331.	The Psychology of Women (4)	
	PSYC 341.	Women and Violence (4)	
	PSYC 349.	The Psychology of Gays and Lesbians (4)	
	SOC 336.	Black Women and Feminism (4)	
	SOC 444. WSTD 103.	Sociology of Gender (4) Introduction to Lesbian, Gay, Bisexual, and	
	WSTD 105.	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)	
2.	Four units cho	sen from any other Women's Studies course or	

cross-listed elective. **Special Topic Courses:** Students may receive credit toward an elective for the Women's Studies Minor for special topic courses offered in other departments that take gender, gender identity, or sexual orientation as the main focus of the course. Contact the coordinator of the Women's Studies Program for permission.

#### **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. See Page 55 for additional certificate information.

#### **Certificate in Women's Studies**

Cer	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.	Gender and Communication (4)			
	COMM 585.	Topics in Human Communication: Gay/Lesbian			
		Relationships (4)			
	CJUS 451.	Women and Crime (4)			
	ECON 333.	Political Economy of Women: Money, Sex,			
		Race, and Power (4)			
	May choose or	nly one of the following two courses:			
	ECON 357	7. Political Economy of Lesbians, Gays,			
		Bisexuals, and Transgendered People (4)			
	WSTD 357	7. Political Economy of Lesbians, Gays,			
		Bisexuals, and Transgendered People (4)			
	ENG 319.	Studies in Literary Diversity: Gay Literature (4)			
	ENG 319.	Studies in Literary Diversity: Lesbian			
		Literature (4)			
		nly one of the following two courses:			
	ENG 336.	Women Writers (4)			
	WSTD 336	( )			
	FLAN 320.	Masterpieces of Literature: Hispanic Women			
		Writers (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)			
	May choose only one of the following three courses:				
	HUM 325.	1 ()			
	NSCI 325.	1 ()			
	SSCI 325.				
	PHIL 364.	Philosophy of Race and Ethnicity (4)			
	PHIL 367.	Gender and Philosophy (4)			
	PSCI 340.	Sex and Politics (4) The Psychology of Women (4)			
	PSYC 331.	Women and Violence (4)			
	PSYC 341. PSYC 349.	The Psychology of Gays and Lesbians (4)			
	SOC 336.	Black Women and Feminism (4)			
	SOC 330.	Sociology of Gender (4)			
	TA 466.	Issues in Gay, Lesbian, Bisexual, and			
	IA 400.	Transgender Theatre (4)			
	WSTD 100.	Introduction to Women's Studies (4)			
	WSTD 100.	Introduction to Gay, Lesbian, Bisexual, and			
	WOTD 105.	Transgender Studies (4)			
	WSTD 300.	Feminist Research Methods (4)			
	WSTD 300.	Topics in Women's Studies (4)			
	WSTD 420.	Feminist Theory (4)			
	WSTD 420. WSTD 425.	Women as Agents of Social Change (4)			
	WSTD 420.	Queer Theory (4)			

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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**=D4) (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)

#### 357. Political Economy of Lesbians, Gays, Bisexuals, and Transgendered People

Examination of lesbian, gay, bisexual and transgendered (LGBT) households and individuals within the economy, including topics such as "gay consumer market," the division of labor within LGBT households, and discrimination based on sexual orientation. (Also offered as ECON 357, 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 100 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 100 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. (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. (2 to 5 units)

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# GRADUATE DEGREE PROGRAMS

# **Office of Graduate Studies**

Administration Building, Room 127 (909) 537-5058 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 61) 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.
- Environmental Sciences, M.S.
- English Composition, M.A.
- Health Services Administration, M.S.
- Interdisciplinary Studies, M.A.
- Mathematics, M.A., M.A.T.
- National Security Studies, M.A.
- Nursing, M.S.
- Psychology, M.A., M.S.
- Public Administration, M.P.A.
- Public Health, M.P.H.
- Rehabilitation Counseling, M.A.
- Social Sciences, M.A.
- Social Work, M.S.W.
- Spanish, M.A.
- Theatre Arts, M.A.

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 AACSB International, the Association to Advance Schools of Business. 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/crosscultural education; career and technical education; correctional and alternative education; curriculum and instruction; environmental education; health education; holistic and integrative education; instructional technology; kinesiology; reading/language arts; science education, special education; and teaching English to speakers of other languages as well as a combined language, literacy, and culture (primary language) option/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.

#### 328 / Graduate Degree Programs

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 Composi**tion. 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 **Master of Science in Environmental Sciences** is a multidisciplinary program designed to provide strong preparation in applied science as well as decision-making for environmental issues, with an emphasis on water and air quality.

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. Information on these programs are available from the Dean of Graduate Studies.

The **Master of Arts in Mathematics** 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 two areas of specialization: general-experimental 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 **Master of Public Health (M.P.H.)** prepares students to enter careers in public health program planning and evaluation, research, health policy analysis, public health teaching, and leadership, and to meet the challenges that the future public health work force will face.

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.

The **M.A. in Spanish** is designed for those students seeking to enhance their skills at the secondary or community college level, as well as those students who desire to continue their studies for an advanced degree. Students may enroll in one of two available options, Spanish Language Teaching, and Hispanic Literature, Linguistics and Civilization.

The **Master of Arts in Theatre Arts** is designed for students who wish to apply advanced theories, methodologies, and technologies of theater in their careers as theater artists and educators and for those who wish to advance from this degree to further graduate work. The program is unique in its flexibility, wide range of theatre education opportunities and specialized faculty.

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 of 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 shall at the time of enrollment: 1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association or have completed equivalent academic preparation as determined by appropriate campus authorities, 2) be in good academic standing at the last college or university attended, 3) have attained a grade-point average of at least 2.5 in the last 90 quarter (60 semester units) units attempted, and 4) satisfactorily meet 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 who meets the minimum requirements for graduate study and postbaccalaureate students, will be accepted in one of the following categories:

Unclassified Postbaccalaureate Standing. Students wishing to enroll in courses at the university with a professional or personal 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 by meeting the 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 creden-

tial 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 137.

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 a Continuous Enrollment (698) course in their discipline until a project, thesis or comprehensive examination is completed. See Culminating Experience: Exam, Thesis or Project, Page 331 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 native language is not English and 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., joint Ph.D., and Ed.D. applicants, master's degree applicants, those seeking credential 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 or at http://www.csumentor.edu and pay a \$55 nonrefundable application fee for each graduate program for which the student would like to be considered. Applicant's seeking a second bachelor's degree should submit the undergraduate application for admission.
- 2. 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.

To be assured of initial consideration by more than one campus, it will be necessary to submit separate applications (including fees) to each. To be assured of initial consideration by more than one graduate program, it will be necessary to submit separate applications (including fees) to each department as well. Applications may be obtained from the Graduate Studies Office or the Office of Admissions at any California State University campus. An electronic version of the CSU graduate application is available at http://www.csumentor. edu. Applications filed electronically are preferable.

Requests for information regarding admission and all completed application materials should be directed to the Office of Admissions and Student Recruitment, Attention: Graduate Admissions. Applications are accessible 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.
- 3. 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

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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.

- 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.
- 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.
- 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:
  - 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.) (Note: these 306 courses were previously numbered 495.)
  - 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.

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, (909) 537-5041. Contact the Office of the Dean of Graduate Studies 537-5058 for questions about the graduate writing requirement as it relates to post-baccalaureate students.

12. **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.

#### 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:

	Petition on file
Petition for:	on or before:
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

Students admitted on probationary status are subject to the probation and disqualification regulations as stated on Page 48. 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 noncompliance 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 graduate students, unclassified postbaccalaureate and credential candidates and 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 is eight units of 500- or 600-level courses or 12 weighted units, following the unit loads used for veteran certification (see table on Page 334).

**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. Additional units may be added at the beginning of the first day of classes, if classes remain open and the overload is approved. 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, Page 4, 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**

During the Open Enrollment and Schedule Adjustment period (see *Class Schedule* for specific dates) students may add classes by following the Registration Instructions detailed in the *Class Schedule*. It is important to note that students who add a class or classes after the first scheduled class session may find themselves at a distinct disadvantage in terms of doing well in the class(es). Students should also be aware that they are responsible for any material they may have missed as a result of adding after the first day.

#### Grade/Grievance/Complaint Procedures

#### http://studentaffairs.csusb.edu/policies.html

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.

#### **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.

# Changing Master's Degree Programs and Concentrations

Each master's program and/or concentration may have its own professional, personal, scholastic, and other standards for graduate study, including qualifying examinations. All admitted graduate students must submit a Graduate Application to change master's programs and concentrations/options/tracks within a program. Students must apply online at www.csumentor.edu.

#### **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: Examination, 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.

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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.

**Continuous 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 (Continuous Enrollment) in their major discipline.

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.

**Continuous 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 RP (Report in Progress) for the course for that quarter. The RP 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 RP 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 (Continuous Enrollment) in their major discipline until their degree is granted.

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 prior to the end of the term of their expected graduation. To avoid late fees the Graduation check should be filed by the established deadlines listed on Page 4 and in the *Schedule of Classes*. Advancement to Candidacy is needed before the graduation check can be completed.

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

Academic Affairs/Academic Resources Commencement Office 537-7050.

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

#### December 2006

Summer 2006, prospective December 2006 and March 2007 candidates are eligible to participate in the December 2006 commencement exercise. In order to obtain 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 2007

December 2006, March 2007 and prospective June and September 2007 candidates are eligible to participate in the June 2007 commencement exercises. In order to obtain 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 commencement fee of \$35.

#### **Palm Desert Campus**

The Palm Desert Campus holds one Commencement exercise in June. In order to obtain 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. The commencement fee can be paid online or at the Palm Desert Office. 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.

#### Master's Students

In order to participate in commencement, students completing a master's degree must file a grad check AND meet the eligibility requirements specified by their program. For the specific requirements, students should consult their program coordinator or go to http://gradstudies.csusb.edu.

#### **Credential Students**

Students completing a Multiple Subject, Single Subject, or Education Specialist Basic credential during September 2006 through August 2007 are eligible to participate in a Credential Recognition Ceremony rather than commencement. Only one Credential Recognition Ceremony will be held in June 2007. Specific information can be obtained in the College of Education Office, CH-107.

#### 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

Academic Affairs Office, AD-101

# (909) 537-5024 pkp.csusb.edu

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. Graduating seniors who are members of Phi Kappa Phi have an opportunity to apply for a Fellowship from the national office to be used towards the first year of graduate study.

#### **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).

#### **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 second 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. Subsequent repeats of course will be averaged.

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 second grade earned shall apply toward the student's cumulative postbaccalaureate grade point average and shall not replace the grade in the undergraduate record. Subsequent repeats of course will be averaged.

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 second grade earned shall apply to the student's cumulative postbaccalaureate grade point average. Subsequent repeats of course will be averaged.

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 second grade earned shall apply to the student's postbaccalaureate grade point average. Subsequent repeats of course will be averaged.

#### Leave of Absence

Degree and credential seeking students who plan to be absent from the university for more than two consecutive quarters must file a leave of absence to preserve their current catalog rights (Title 5, Article 5, See. 40401). A petition, available through the Office of of the Dean of Graduate Studies, AD-127, (909) 537-5058, must be filed and approved.

The leave of absence policy covers both involuntary and voluntary interruptions. In most instances, with an approved leave of absence, a student may be absent from the campus without losing their rights to specific degree requirements under an earlier catalog.

Petitions for leaves of absence should be filed in advance of the interruption in enrollment. Each leave commences with the first regular quarter of non-attendance. Medical and military leaves may be considered retroactively if supported by individual circumstances, but those leaves must be filed no later than census date of the third regular quarter of non-attendance. Personal and planned educational leaves cannot be retroactive since they constitute an agreement or "contract" which must be set in advance. The maximum duration for any leave is two calendar years.

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Leaves of absence will not be approved for students subject to disqualification or dismissal due to academic deficiencies or disciplinary action.

Other students ineligible for leaves of absence are those who are not completing any degree applicable course work, those who are enrolling only in extension courses or those who are only auditing courses.

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 quarter of regular enrollment.

International students must submit a copy of the leave of absence petition to the Office of International Student Services, UH-235. Visa students must be registered as full-time students except, when after three consecutive quarters of regular enrollment they decide to take a quarter off. All leave of absence periods must be approved by ISS prior to taking the leave in order to report the students properly to the Bureau of Citizenship and Immigration Services (BCIS). As a general rule, visa students must go back to their home country when applying for a leave of absence, as their primary goal in the U.S. is to obtain an academic degree.

The following Leaves of Absence may be requested:

**Medical Leave of Absence:** Requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. Exceptions to the two-year limit may be granted under extenuating circumstances.

**Military Leave of Absence:** For those being inducted, requests must be accompanied by a copy of military orders indicating the induction date. For students being called to active military service, Title 5, Section 40401, provides for an extended leave of absence up to a maximum of two years due to approved educational reasons and for circumstances beyond a student's control. The university will approve a leave for students called for active military service as a result of mobilization of U.S. military reserves. Students will retain their catalog rights and register for subsequent quarters. In the case of students called for active military service, the university will authorize withdrawals throughout the quarter. For additional information, assistance with dropping current classes and other processing, see the veteran's coordinator in the Office of Records, Registration and Evaluation, UH-171, (909) 537-5213.

**Personal and Planned Educational Leaves of Absence:** is defined as a planned interruption or pause in a student's regular education during which the student temporarily ceases formal studies at CSU, San Bernardino. 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 or to allow time to address personal matters and thus enhance the prospect of successful completion of the student's academic program.

Since students usually maintain their catalog rights, courses completed at other institutions must have received prior approval in order to be transferred back to CSU, San Bernardino. Therefore, a student must also file a concurrent enrollment form with the Office of Records, Registration & Evaluations, UH-171, (909) 537-5200 to obtain that approval. Failure to file a concurrent enrollment form may result in coursework not being accepted and revised major requirements being required.

**Returning from Approved Leave of Absence.** When students plan to return from their leave, a readmission form, available through the Office of Records, Registration & Evaluations, UH-171, (909) 537-5200, must be submitted within the filing period for the quarter of return. No application fee will be assessed for leaves of absence that meet the terms of the leave agreement.

#### 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:

on oon mound	The based of the following drift loads.
Full time	
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	
	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 (909) 537-5502 http://csbs.csusb.edu/anthro/

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. (2 to 5 units)

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# ART

# Master of Arts in Art

#### Department of Art

Visual Arts Center, Room 105

(909) 537-5802 http://cal.csusb.edu/Depts/Art/

#### FACULTY: Kurt Collins, Teresa Cotner, Richard Johnston,

Sant Khalsa (Chair), George McGinnis, Thomas McGovern (Graduate Coordinator), 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;
- Completion of a minimum of 20 quarter units of upper-division work in the area of specialization for the Master of Arts degree program;
- Completion of a minimum of 20 quarter units in art history, a minimum of eight to be upper-division units;
- A grade-point average of 3.0 ("B") or better in all art courses taken;
- 5. Completion of the graduate entrance writing requirement;
- 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. Applicants should contact the Graduate Coordinator for information regarding the portfolio requirement and application deadlines.

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:

- 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;

- Been accepted by an area advisor to supervise the course of study;
- 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;
- 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**

- 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;
- 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;
- 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 329.

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)
- ART 525. Seminar in Art History (4)
   ART 595E. Independent Study (in area of
- 3. ART 595E. Independent Study (in area o 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) Graduate Studio in Art: Graphic Design (5) ART 605B. 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) ART 620. Graduate Studio Critique (1) for a total of (3) 6. 7. ART 630. Professional Practices in the Visual Arts (2)
- 8. ART 695. Master's Project (4)
- 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.

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## 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. (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. (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. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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)

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# BIOLOGY

## Master of Science in Biology

#### Department of Biology

Biological Sciences Building, Room 329

(909) 537-5305 http://biology.csusb.edu/

FACULTY: Nicole Bournias, Klaus Brasch, Herbert Brunkhorst,

Michael Chao, Richard Fehn, James Ferrari,

Dalton Harrington (Emeritus), Sarojam Mankau (Emeritus),

Anthony Metcalf, Paul Orwin, David Polcyn (Chair), John Skillman, Alexander Sokoloff (Emeritus), Stuart Sumida (Graduate Coordinator), Colleen Talbot, Jeffrey Thompson, Gerald Thrush, Kimberly Williams, Ruth Wilson (Emeritus)

# 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.

The department offers both thesis and non-thesis degree programs. The thesis option (Plan I) is designed for students entering research-related careers or planning to enter advanced graduate and professional degree programs. The non-thesis option (Plan II) is designed primarily for students entering professional fields such as teaching.

### Admission to the M.S. Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

- A baccalaureate degree from an accredited college or university;
- 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. Upper division courses in cellular or molecular biology, genetics, ecology, and organismal biology. Students lacking <u>one</u> of these courses may be admitted to the program, but must make up the deficiency in their first year. Students will not be permitted to enroll in 600-level biology courses without the appropriate prerequisite course. Graduate-level courses may have additional prerequisites.
- A cumulative undergraduate grade point average of at least 3.0 ("B") in all courses used for credit in the major;
- 7. Completion of the graduate entrance writing requirement;
- Submission to the Department of Biology Graduate Committee, scores from the Graduate Record Examination (GRE) including advanced testing in biology;
- 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.;

10. 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;
- 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;
- 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**

- 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;
- Advancement to candidacy for the degree and approval of the specific program of courses;
- 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;
- Completion of a final oral examination concluded by acceptance of the thesis (Plan I); or satisfactory completion of the Comprehensive Final Examination (Plan II);
- 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 329.

#### 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 wishing to complete a thesis are responsible for contacting potential major advisors. Students may only enter the Thesis Program (Plan I) if they are accepted by a thesis advisor, and the Biology Graduate Committee approves the student's petition to enter the Thesis Program. 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.

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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 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 proaram

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 Program (Plan I)

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.

# Non-Thesis Program (Plan II)

Students pursuing this program are required to pass the Biology Department graduate comprehensive examination in addition to the completion of required course work selected from the three major curricular areas in biology as described in Plan II below. Students must register for BIOL 999 during the quarter they take the comprehensive final examination. The comprehensive final examination may be repeated one time only if justified by serious and compelling reasons and approved by the Biology Graduate Committee. 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 Program

- 1. BIOL 601. Teaching Assistant Training in Biology (2)
- Graduate Seminar in Biology (2) 2. BIOL 690.
- Graduate Research Methods in Biology (2) BIOL 692. 3.
- 4. BIOL 699A. Thesis Research and Thesis (3)
- 5. BIOL 699B. Thesis Research and Thesis (3)
- BIOL 699C. Thesis Research and Thesis (3) 6.
- 7. Five of the 600-level courses in Biology listed under "Course Categories" A, B, and C. (List follows Plan II below.) At least one of these must be taken from each of the three categories (minimum of 10 units.) Course categories are:
  - A. Cellular and Molecular Biology
  - B. Physiology and Organismal Biology
  - C. Ecology and Evolutionary Biology
- 8. Twenty units of electives to be chosen from biology or related courses at the 600-, 500- and 400-levels (excluding BIOL 601). A maximum of 12 units from any combination of BIOL 595, BIOL 692, and BIOL 696 may be applied toward the student's degree. Courses taken outside the department to fulfill this requirement require prior approval of the Graduate Committee and thesis advisor.

9. 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 Program

- 1. BIOL 601. Teaching Assistant Training in Biology (2)
- 2. BIOL 690. Graduate Seminar in Biology (2)
- Eight courses, with a minimum of 16 units, of 600-level courses 3. listed under "Course Categories" below. Must include at least two 600-level courses from each of the following categories:
  - Cellular and Molecular Biology Α.
  - B. Physiology and Organismal Biology
  - C. Ecology and Evolutionary Biology
- 4. Twenty-five units of electives to be chosen from biology or related courses at the 600-, 500- and 400-levels, with at least one course in each of the categories (A, B, and C) below. A maximum of six units from any combination of BIOL 595, BIOL 692, and BIOL 696 may be applied toward the student's degree.
- 5. 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.
- Successfully complete BIOL 999.

## **Course Categories**

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Α.	Cellular and Molecular Biology		
	BIOL 502.	Genetic Engineering (4)	
	BIOL 528.	Concepts of Molecular Genetics (4)	
	BIOL 572.	Virology (4)	
	BIOL 590A.	Senior Seminar: Molecular (2)	
	BIOL 590C.	Senior Seminar: Cellular (2)	
	BIOL 5901.	Senior Seminar: Microbiology (2)	
	BIOL 592.	Recombinant DNA Techniques (4)	
	BIOL 600.	Advanced Topics in Molecular Biology (2)	
	BIOL 605.	Advanced Topics in Cell Biology (2)	
	BIOL 678.	Advanced Microbiology (2)	
В.	Physiology and	Organismal Biology	
	BIOL 424.	Comparative Animal Physiology (6)	
	BIOL 431.	Comparative Plant Physiology (6)	
	BIOL 440.	Principles of Development (5)	
	BIOL 524.	Advanced Vertebrate Morphology (3)	
	BIOL 576.	Endocrinology	
	BIOL 573.	Immunology (5)	
	BIOL 580.	Neurobiology (4)	
	BIOL 590D.	Senior Seminar: Physiology (2)	
	BIOL 590F.	Senior Seminar: Animal Use (2)	
	BIOL 590J.	Senior Seminar: Zoology (2)	
	BIOL 590K.	Senior Seminar: Botany (2)	
	BIOL 620.	Advanced Topics in Plant Biology (2)	
	BIOL 624.	Advanced Topics in Physiology (2)	
	BIOL 660.	Advanced Topics in Development (2)	
	BIOL 675.	Advanced Topics in Parasitology (2)	
_	BIOL 677.	Advanced Immunology (2)	
C.		rolutionary Biology	
	BIOL 522.	Population Genetics (4)	
	BIOL 565.	Physiological Ecology (6)	
	BIOL 590B.	Senior Seminar: Biosystematics (2)	

- Senior Seminar: Biosystematics (2)
- BIOL 590E. Senior Seminar: Ecology (2)
- BIOL 590G. Senior Seminar: Genetics (2)
- Advanced Topics in Genetics (2) BIOL 650. BIOL 664. **Biosystematics** (2)
- Advanced Topics in Ecology (2) BIOL 670.
- BIOL 680. Advanced Topics in Evolution (2)
- С
  - BIOL 590B.

## COURSE OFFERINGS IN BIOLOGY (BIOL)

## Upper Division

#### 502. 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. Formerly BIOL 402. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, and CHEM 223 or 323. (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)

#### 528. 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. Formerly BIOL 428. Prerequisites: BIOL 300 with a grade of "C" or better, BIOL 400, 421, 422, and CHEM 223 or 323. (4 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)

#### 572. 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. Formerly BIOL 472. Prerequisite: BIOL 300 with a grade of "C" or better. (4 units)

#### 573. 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. Materials fee required. Formerly BIOL 476. Prerequisites: BIOL 300 with a grade of "C" or better. (5 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)

#### 580. 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. Formerly BIOL 480. Fours hours lecture. 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.

- A. Molecular (2 units)
- B. Biosystematics (2 units)
- C. Cellular (2 units)
- D. Physiology (2 units)
- E. Ecology (2 units)
- F. Animal Use (2 units)
- G. Genetics (2 units)
- H. Evolution (2 units)
- I. Microbiology (2 units)
- J. Zoology (2 units)
- K. Botany (2 units)
- L. Integrative Approach to Biology (2 units)
- M. Conservation Biology (2 units)

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#### 592. 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. Materials fee required. Formerly BIOL 492. Prerequisites: BIOL 300 with a grade of "C" or better and BIOL 400. (4 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. (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 573. (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)

#### 692. Graduate Research Methods in Biology

Specialized topics in research methods including theory and technique. Topics may vary. Two hours laboratory per unit of credit. May be repeated for credit, but no more than six units may be applied toward the degree. Graded credit/no credit. Prerequisites: classified standing in Master's Degree Program and consent of instructor. (1 to 3 units)

#### 696. 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. Formerly BIOL 695A, 695B and 695C. The course may be taken up to three times for the maximum number of units specified in each degree track. Graded credit/no credit. Prerequisite: classified standing in Master's Degree Program and consent of instructor. (1 to 6 units) C S

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# 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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)

#### 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

# **BUSINESS ADMINISTRATION**

## Master of Business Administration

Accredited by AACSB International, the Association to Advance Collegiate Schools of Business

- with concentrations in:
  - Accounting
  - Entrepreneurship
- Finance
- Information Assurance and Security Management Information Management Management
- Marketing Management
- Supply Chain Management

# Master of Business Administration for Executives

# **College of Business and Public Administration**

Jack Brown Hall, Room 282 (909) 537-5703 http://www.cbpa.csusb.edu/

# 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;
- Submission of an acceptable Graduate Management Admission (GMAT) score that meets the following formula: (GPA x 200) + GMAT scored greater than or equal to 1,050 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 with a minimum GPA of 3.0;
- 4. Completion of the graduate entrance writing requirement;
- 5. Competence in the following prerequisite courses or their equivalents:
  - A. ACCT 503. Financial 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 Financial Management** D. INFO 309. Information Management F One of the following: Management and Organizational Behavior MGMT 302. PSYC 302. Management and Organizational Behavior F. One of the following: MGMT 230. **Business Law** 
  - MGMT 406. International Business Law
- G. MGMT 490. Strategic Management
- H. MKTG 305. Marketing Principles
- I. SCM 210. Applied Business Statistics
- J. SCM 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.)
- 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;
- 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");
- 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;

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- Successful completion of the required core courses and an elective concentration as outlined in the curriculum section;
- 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 for the comprehensive examination or project;
- 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 329.

Concentrations are available in accounting, entrepreneurship, finance, information assurance and security, information management, management, marketing management, and supply chain 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, have grades of "C" or better, no "incomplete" grades 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. SCM 607. Managing the Supply Chain (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 Controls (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)
- 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.

#### **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.	Entrepreneurship and New Ventures (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:

э.	Four units chosen from:		
	FIN 523.	Security Trading and Analysis (4)	
	FIN 534.	Export-Import Financing (4)	
	FIN 575.	Internship in Finance (4)	
	FIN 585.	Real Estate Finance (4)	
	FIN 622.	Entrepreneurial and Venture Finance (4)	
	FIN 655.	Management of Financial Institutions (4)	
	FIN 690.	Advanced Topics in Finance (4)	
	INFO 646.	Information Systems Planning, Strategy and	
		Policy (4)	

#### Information Assurance and Security Management Concentration

1.	INFO 511.	Information Assurance and Security (4)		
2.	INFO 646.	Information Systems Planning, Strategy		
		and Policy (4)		
3.	INFO 647.	Information Based Management (4)		
4.	INFO 648.	Information Networking Systems		
		and Security (4)		
5.	Four units cho	our units chosen from:		
	INFO 590.	Seminar in Information Management (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 Strategies and		
		Warehousing Strategies (4)		
	INFO 680.	International Electronic Commerce (4)		

1)

4)

#### Information Management Concentration

1. INFO 646. Information Systems Planning, Strategy and Policy (4) 2. INFO 647. Information Based Management (4) Information Networking Systems 3. INFO 648. and Security (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) Entrepreneurial Information Management (4) INFO 623. 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) Advanced Topics in Information Management (4) INFO 690.

#### Management Concentration

 Twenty units chosen from: MGMT 641. Managing Human Resources (4)

MGMT 642.	Communication and Interpersonal
	Processes (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 690.	Advanced Topics in Management (4)
COMM 522.	Conflict Resolution Methodologies (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.

#### Supply Chain Management Concentration

- 1. SCM 611. Logistics and Supply Chain Management Strategies (4)
- 2. SCM 614. Advanced Quality Management (4)
- 3. SCM 615. Project Management (4)
- 4. SCM 650. Information Decision Systems (4)
- 5. SCM 660. Transportation and Supply Chain 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, supply chain 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:

- Minimum of five years experience as a manager in charge of a significant annual budget, staff, and/or operations;
- 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;
- An acceptable Graduate Management Admission Test (GMAT) 6. score which may be waived upon proof of substantial work experience (minimum 10 years) and significant managerial or professional experience (minimum of three years) with the approval of the M.B.A. Director and Graduate Committee. Managerial experience is defined as work experience in which the primary duty includes the overall responsibility for an enterprise, subdivision, department or similar independent or quasi-independent organization. Duties typically include such things as hiring and firing personal, planning, discretion and judgment, and organizing and controlling work that substantially affects a major aspect of the organization's operations. Individuals with this level of responsibility usually have titles such as "manager," "director," "vice-president," "president," "chief information officer," "chief financial officer," "chief operating officer." Professional experience is work that requires advanced knowledge acquired by a prolonged course of specialized study and involved work that is predominately intellectual and varied in character. Examples would include medical doctors, dentists, psychologists, lawyers, and certified public accountants;
- 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;
- 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");
- 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;
- 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;
- At least 24 quarter units of credit taken after advancement to candidacy for the degree;
- 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;

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- 6. After advancement to candidacy, students must complete one of the following:
  - A. ADMN 998. Comprehensive Project (0)
  - B. ADMN 999. Comprehensive Examination (0)
- 7. Successful completion of ADMN 995.

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 (28 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. SCM 607. Managing the Supply Chain (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 (0 units)

 ADMN 995. M.B.A. Portfolio (0) and one of the following ADMN 998. Comprehensive Project (0) ADMN 999. Comprehensive Examination (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, Public Administration and Supply Chain Management are listed alphabetically throughout the undergraduate studies section of the catalog.

# COURSE OFFERINGS IN ACCOUNTING (ACCT)

#### **Upper Division**

#### 503. Financial Accounting

Intensive introduction to applied topics and techniques in financial accounting. Development of accounting information according to U.S. GAAP for external reporting purposes. Economic and financial analysis of financial statements. 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)

#### 536. Corporate and Partnership Taxation

The basic concepts of the federal income taxation of corporations and partnerships. Formerly ACCT 436. Prerequisite: ACCT 426 with a grade of "C" or better or consent of instructor. (4 units)

#### 539. 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. Formerly ACCT 439. Prerequisite: ACCT 373. (4 units)

#### 556. Estates and Gifts and other Specialized Taxation Topics

Taxation topics not covered in depth in ACCT 426 and 536, 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. Formerly ACCT 456. Prerequisite: ACCT 426 with a grade of "C" or better or consent of instructor. (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)

#### 574. Reporting Issues in Intermediate Accounting

Study of revenue recognition, deferred taxes, pensions and leases. Formerly ACCT 374. Prerequisite: ACCT 372 with a grade of "C" or better. (4 units)

#### 575. Internship in Accounting

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (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 ledgerbased 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)

#### 695. Graduate Independent Study

Independent graduate research in accounting. No more than four units in this course may be applied toward the master's degree. Prerequisites: graduate standing in accounting, consent of instructor, and approval of a written proposal of the research by the graduate program director. (1 to 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. (1 to 6 units)

#### 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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)

#### 995. MBA Portfolio

Preparation and submission of a portfolio containing assignments representing successful work in the MBA program, accompanied by a reflective essay showing how the portfolio demonstrates the accomplishment of the goals of the program. Graded credit/no credit. Prerequisite: completion of 32 units in the program. (0 units)

#### 998. Comprehensive Project

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. Open only to students who have been advanced to candidacy and with the approval of the college graduate director. (0 units)

#### 999. Comprehensive Examination

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 in the concentration. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. May be taken any fall, winter or spring term after advancement to candidacy. (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)

#### 523. Security Trading and Analysis

An applied investment analysis course, emphasizing the application of modern portfolio theory and asset allocation models in selecting and evaluating stocks and bonds. This web-enhanced course utilizes modern computer and data facilities to conduct extensive fundamental and technical analysis, security portfolio tracking, performance measurement, and trading simulation and strategies. Prerequisite: FIN 503 or equivalent. (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. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (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**

#### 511. Information Assurance and Security

Advanced study of information assurance and security including theory, methods, and practices used by federal and state agencies, and private sector best practices. Topics include: threat assessment, evidence collection, forensics, countermeasures, practices and law. Students will work in a simulated environment and will investigate crimes

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and experience various security scenarios. Data center practices for the purpose of audit, control and accreditation are explored. Formerly a topic under INFO 590. Prerequisites: INFO 309, and either 475 or 648; or consent of instructor. (4 units)

#### 575. Internship in Information Management

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (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, information assurance and security, risk assessment, resource allocation 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 ecommerce, web-based business strategies, commerce security and privacy, 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, documentation standards, certification testing and system accreditation practices, copyright and legal issues 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. Information and security architecture theory, tools, assessments, methodologies and practice are applied. 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, administration issues, data certification/classification, life cycle, access control, and legal requirements. Prerequisite: INFO 609. (4 units)

#### 648. Information Networking Systems and Security

Advanced study of developing, implementing, securing and managing information networks. Topics include use of hardware, software, routers, wireless communications, and Voice over IP. Management issues such as access control, privacy, protocol security and policies are also explored. 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. Specific topics include risk management, incident handling, threat assessment, allocating resources and system certification. (Also offered as SCM 650. Students may not receive credit for both.) Prerequisites: INFO 609 and SCM 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)

#### 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)

#### 695. Graduate Project

Independent graduate research in information management. Project will be under direction of a faculty member. Prerequisites: advancement to candidacy, written approval of student's graduate project committee and graduate director. (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)

#### 520. Legal Regulation of Intellectual Property

Analysis of federal, state and international law on intellectual property and technology, including principles of contract law, intellectual law, taxation law, tort law, anti-trust law and criminal law with respect to technology and intellectual property. Prerequisites: MGMT 230 and 330. (4 unit)

#### 350 / Business Administration

#### 531. Sports Management

Theory and analysis of the factors, participants, evaluation methods of modern sports and entertainment management. (4 units)

#### 533. Sports and Hospitality Business Law

Legal issues and policies impacting sports management and business, including contracts, labor law, negotiations and constitutional issues integral to the field of sports and hospitality management. (4 units)

#### 541. Commercializing Entrepreneurial Innovation

Examines the process of commercializing innovations and emerging technologies in entrepreneurial driven companies. Focus on understanding the strategy, tactics and behaviors necessary to manage the transition from basic development stages to commercial venture, examining the role of innovation assessment, intellectual property protection, technology transfer and licensing. (4 units)

#### 543. Entrepreneurial Opportunity Analysis

Process of defining and identifying the difference between ideas and opportunities including the role of the entrepreneur, ideas, pattern recognition, and the evaluation and screening process that leads to successful commercialization of business concepts and ideas. (4 units)

#### 545. Entrepreneurial Resource Requirements

Strategies and techniques employed by entrepreneurs to identify and access critical resources. Special emphasis on marshalling internal and external resources such as advisors, board of directors, and social networks. (4 units)

#### 547. Managing a Growing Business

Study of the basic strategy and tactics to manage growing enterprises while still maintaining an entrepreneurial spirit. Examines the role of management decision making, management control systems, short- and long-term planning, and entrepreneurship in managing growing companies. (4 units)

#### 549. Launching the Entrepreneurial Venture

Process and methods involved in starting and growing new enterprises with emphasis on the attributes of entrepreneurs, entrepreneurial careers and positioning an enterprise for sustainable growth. (4 units)

#### 575. Internship in Management

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (2 or 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. (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)

#### 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. Entrepreneurship and New Ventures

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)

#### 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)

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## 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, councilor, facilitator, conciliator, mediator, ombudsperson, fact-finder, 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)

#### 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)

#### 998. Management Portfolio Assessment

Submission of a portfolio based on departmental guidelines. Prerequisites: completion of or concurrent enrollment in all management concentration courses. (0 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)

#### 525. Sports and Entertainment Marketing

Examination of the theoretical and practical aspects of marketing management in the sports and entertainment industry. Formerly a topic under MKTG 590. (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. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (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. (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)

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#### 352 / Business Administration

#### 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 605 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. (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 600level coursework in marketing and consent of instructor. (4 units)

# COURSE OFFERINGS IN SUPPLY CHAIN MANAGEMENT (SCM)

#### 575. Internship in Supply Chain Management

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

#### 590. Seminar in Supply Chain Management

An intensive study of some phase of supply chain management to be developed by the instructor. May be repeated for credit as topics change. Formerly MSCI 590. (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. Formerly MSCI 595. (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.

#### 607. Managing the Supply Chain

Integration and application of analytical techniques used in logistics and supply chain management. Concepts of decision models are examined for planning, control, forecasting, scheduling, and analysis within an enterprise. Formerly OM 607. Prerequisite: SCM 304. (4 units)

#### 611. Logistics and Supply Chain Management Strategies

Development, implementation and integration of supply chain management and operations management strategy with business and other functional strategies of organization. Topics include: decisions involving positioning, structuring and managing for superior competitive performance. Formerly OM 611. Prerequisite: SCM 607. (4 units)

#### 614. Advanced Quality Management

Technical and managerial issues for implementing total quality management in operations, supply chain and logistics. 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 OM 614. Prerequisite: SCM 607. (4 units)

#### 615. Project 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 OM 615. Prerequisite: SCM 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. Specific topics include risk management, incident handling, threat assessment, allocating resources and system certification. (Also offered as INFO 650. Students may not receive credit for both.) Formerly OM 650. Prerequisites: INFO 609 and SCM 607. (4 units)

#### 660. Transportation and Supply Chain Management

Comprehensive study of managing transportation and 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 OM 660. Prerequisite: SCM 607. (4 units)

# CHEMISTRY

# **Department of Chemistry and Biochemistry**

Chemical Science Building, Room C5-204 (909) 537-5318 http://chem.csusb.edu/

The following courses are offered in support of various graduate degree programs offered at this university.

## COURSE OFFERINGS IN CHEMISTRY (CHEM)

#### Upper Divison

**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. Materials fee required. Prerequisites: CHEM 223 or 323, 345 and 452 or 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)

#### Graduate/Postbaccalaureate

May not be taken by undergraduate students.

#### 610. Advanced Environmental Chemistry

Overview of the chemistry and properties of the natural environment, and the effects of human activities thereon. Topics include the behavior of environmental pollutants in air, water, sediments/soils and their potential biological impacts; as well as a discussion of their sources and treatment. Concurrent laboratory studies of common methods used in environmental analyses. Four hours lecture and three hours laboratory. Prerequisites: one year of introductory work in chemistry including organic nomenclature e.g. Chem 205, 206; or 215, 216, and any organic; or consent of instructor. Recommended: Chem 345. (5 units)

#### 690. Graduate Seminar in Environmental Sciences

Selected topics and reviews of current investigations in the fields of environmental chemistry. Two hours seminar. (2 units)

#### 695. Supervised Graduate Study in Chemistry

Original individual research in environmental chemistry; 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. Prerequisites: classified standing in master's program and consent of advisor. (4 to 5 units)

#### 697. Advanced Internship

Supervised work or study in private or public organizations. May be repeated for credit with consent of Environmental Science Graduate Committee. Prerequisites: CHEM 575 or GEOL 575 and consent of advisor. (4 units)

#### 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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. Independent Graduate Study

Independent graduate research conducted under guidance of the major advisor. Prerequisite: CHEM 695 or GEOL 695. (4 units)

#### 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and good academic standing. (0 units)

# **COMMUNICATION STUDIES**

## Master of Arts in Communication Studies

Communication Studies Track

Integrated Marketing Communication Track

#### Certificate

**Conflict Management** 

### **Department of Communication Studies**

University Hall, Room 018

(909) 537-5815 http://cal.csusb.edu/Depts/CommStudies/

FACULTY: Mo Bahk, Nathan Carter, Suwichit "Sean" Chaidaroon, Rueyling Chuang, Risa Dickson, Mary Fong, Donna Gotch, Jo Anna Grant, Brian Heisterkamp, Heather Hundley (Graduate Coordinator), Fred Jandt, Robin Larsen, C. Rod Metts, Ahlam Muhtaseb, Scott Rodriguez

## **MASTER OF ARTS IN COMMUNICATION STUDIES** Requirements (45-48 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., organizational 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:

Communication Perspectives (4) COMM 306.

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 3.0 overall and/or 3.0 for the last half of undergraduate course work.
- C. International students must have a TOEFL score of 575 or hiaher.
- 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 a trial period to demonstrate their ability. Conditionally admitted students must complete twelve units of course work at the 500- or 600-level with no grade lower than "B" in those courses. An overall grade point average of at least 3.0 is needed for elevation to classified graduate student status.

#### Advancement to Candidacy

- 1. During the first guarter 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. Students must receive a "B-" or higher in all required courses;
- 3. A minimum of 36 of these units must be at the 500- or 600- level.
- 4. No course may be counted for which a grade of "C-" or less was received
- 5. 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)**

- Students must receive a grade of "B-" or higher in all Note: required courses.
- 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 491.	Ethica	al Aspects	of	Communication (4)	
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- Communication Law and Policy (4) COMM 502.
- COMM 506. Media Sex and Violence (4) COMM 520. Integrated Marketing Communication (4)
- COMM 522. Mediation Theory and Practice (4)

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#### **Communication Studies / 355**

COMM 542.	Issue Management and Crisis
	Communication (4)
COMM 580.	Culture and Ethnicity in Language (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 630.	Instructional Communication (4)
COMM 670.	Seminar in Conflict and Conflict Resolution (4)
COMM 671.	International Communication (4)
COMM 672.	Intercultural Peacemaking (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.	Continuous Enrollment for Graduate Candidacy
	Standing (0)
COMM 699.	Thesis (5)
Students can	ot apply any course previously applied to apother

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 eight 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 (20 units)

- 1. COMM 306. Communication Perspectives (4)
- COMM 341. Public Relations Theory and Principles (4)
   Four units chosen from:
- COMM 400. Communication Research Methodologies (4) MKTG 416. Marketing Research (4)
- 4. MKTG 305. Marketing Principles (4)
- 5. MKTG 410. Consumer Behavior (4)

Degree Requirements (48 units)

**Note:** Students must receive a grade of "B-" or higher in all required courses.

- 1. COMM 601. Intercultural Communication Theories (4)
- 2. COMM 605. Introduction to Graduate Studies in Integrated Marketing Communication (4)
- 3. COMM 691. Seminar in Public Relations (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. Mass Media Effects (4) COMM 415. Advertising as Social Communication (4) COMM 442. Public Relations Campaigns (4) COMM 450. Broadcast Research and Audience Analysis (4) May choose only one of the following two courses: COMM 520. Integrated Marketing Communication (4) Integrated Marketing Communication (4) MKTG 520. COMM 522. Mediation Theory and Practice (4) Issue Management and Crisis COMM 542. 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)

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MKTG 446.	Advertising Campaign (4)
MKTG 525.	Sports and Entertainment Marketing (4)
MKTG 530.	Strategic Entrepreneurship (4)
MKTG 540.	E-Marketing (4)
MKTG 560.	Services Marketing (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 Experie	nce: Proiect/Thesis (5 units) or

Capstone Experience: Project/Thesis (5 units) or

Comprehensive Examination (0 units)

 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 fulltime. Interested applicants should contact the graduate coordinator in the Department of Communication Studies for further information.

## **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. See Page 55 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 Peacemaking (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)

### **Upper Division**

## 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)

## 506. Media Sex and Violence

Critical and empirical examination of the practices and consequences of portraying human aggression and sexuality in the mass media including television, movies, magazines, video games, and the Internet. Formerly COMM 587. (4 units)

# 511. Feminist Contributions to Communication Theories

Examination of how diverse feminist theories contribute to an understanding of communication and rhetoric, integrating feminist theories with communication theories, and focusing on how gender distinctions influence our thinking and communication. Will explore diversity in feminism, including ethnicity, relational orientation, religion and class. Formerly a topic under COMM 584. (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)

### 543. Environmental Communication

Examination of communication involving environmental issues in national and international contexts. Emphasis is placed on the relationship between communication and environmental problems and issues. Formerly a topic under COMM 584. (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)

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#### 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. (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. (2 to 5 units)

#### 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)

#### 630. Instructional Communication

Study of educational philosophies, models, approaches, and research in teaching communication, to include course design and student evaluation instruments with emphasis on application of instructional strategies in their teaching presentations. May not be taken in lieu of EDUC 603. (4 units)

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## 670. Seminar in Conflict and Conflict Resolution

Survey course on the origins, history, models and theories of conflict and conflict resolution. Includes cultural issues, nonviolent 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. Prerequisite: advancement to candidacy. (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. (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. (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. (2 to 5 units)

#### 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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)

#### 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

# Master of Science in Computer Science

#### **Department of Computer Science**

Jack Brown Hall, Room 307 (909) 537-5326 http://www.csci.csusb.edu/

FACULTY: Richard Botting, Arturo Concepcion (Chair), George Georgiou, Ernesto Gomez, Dennis Ikenberry (Emeritus), Yasha Karant, Allan Knight, Josephine Mendoza (Coordinator), Owen Murphy, Keith Schubert, 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;
- Secured a major advisor from the Department of Computer Science for the preparation of the thesis or the implementation of a project;
- 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");
- 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 thesis option or a tentative title and description of the project for the project option, or enrollment in CSCI 689 for the exam option;

- For students choosing the project option, satisfactory passage of the comprehensive oral examination to be administered by the graduate committee;
- 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**

- 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;
- Advancement to candidacy and approval of the specific program of study;
- 3. A public presentation for the thesis or project option;
- 4. Completion of a final oral examination concluded by acceptance of the thesis, for the thesis option; satisfactory completion of the comprehensive oral examination and completion of the project, for the project option; or satisfactory completion of the comprehensive written examination, for the examination option;
- 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,
- 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;
- 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;
- 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 329.

#### **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 enrolled in the thesis or project option 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.

Students enrolled in the exam option are advised by the graduate coordinator. The program of study for the exam option consists of declaring and choosing the exam option and may not be modified to the thesis or project option. USB 2006-200

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#### 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. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

#### **Comprehensive Written Examination**

The student shall enroll in CSCI 689 after consultation with the graduate coordinator and completion of the last core course(s). CSCI 689 is an independent study course in preparation of the comprehensive examination and may be repeated only once. Students enrolled in CSCI 689 must take and pass a written examination on the material in the core courses.

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.)
- 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. Examination Option
  - 1. CSCI 689. Comprehensive Examination (1)
  - 2. Twenty-four 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.
- B. Project Option
  - 1. CSCI 690. Master's Project (5)
  - 2. Twenty units of elective coursework chosen from 500- to 600level computer science courses deemed appropriate by the department graduate committee. Up to eight units of 500level computer science courses may be taken.
- C. Thesis Option
  - 1. CSCI 699. Thesis (9)
  - 2. Sixteen 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

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)

(W)

(F)

#### 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. (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 consent of instructor. (4 units)

#### 515. Automated Reasoning

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. (4 units)

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#### 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, and MATH 213. (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. Three hours lecture and two hours activity laboratory. Formerly CSCI 430. Prerequisites: CSCI 313 or 498 and 330. (4 units)

## 531. High Performance Networks

High performance network methodologies. Methods to develop network performance measures and models. Introduction to path cost estimation and service reliability issues. Three hours lecture and two hours laboratory. Formerly a topic under CSCI 594. Prerequisite: CSCI 530 or consent of instructor. (4 units)

## 535. Numerical Computation

Introduction to scientific computing. Algorithms related to approximations, zero findings, numerical differentiation and integration, data fitting and interpolation, nonlinear equations. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 313 or equivalent. (4 units)

## 540. System Simulation

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. (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

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

(F)

(F)

(W)

(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, 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. Graded credit/no credit. Prerequisite: 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)

#### 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 four 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. (1 to 4 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. May not be counted as upper-division elective units for the B.S. in Computer Science. 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. May not be counted as upper-division elective units for the B.S. in Computer Science. 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. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

### 611. VLSI Circuit Design

(F)

(S)

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. Materials fee required. 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. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

## 621. Contemporary Computer Graphics

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)

## 631. Advanced Data Communications (W)

Topics include high bandwidth networks, formal models of network performance, traffic and congestion control, formal routing theory, quality of service, and internet protocol suite adaptations to high bandwidth networks. May not be taken for credit by students who have received credit for CSCI 531. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 530 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)

## 635. Numerical Algorithms and Simulation

Scientific computing and simulation. Systems of liner equations, linear least squares, backward error analysis and numerical stability, stiff equations, simulation, sparse matrices. Three hours lecture and two hours laboratory. Materials fee required. Prerequisite: CSCI 535 or equivalent. (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. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

## 656. Formal Methods, Models and Languages

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. Materials fee required. Prerequisite: classified status. (4 units)

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## 657. Structured Systems Analysis and Design

**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

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. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

## 670. Compiler Design Theory

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. Materials fee required. 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

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. Materials fee required. Prerequisite: graduate standing in computer science or consent of instructor. (4 units)

## 689. Comprehensive Examination

Unsupervised study in preparation of the comprehensive examination. Topics include the material covered in the core courses: formal language and automata theory, computer architecture, algorithms, software engineering, and operating systems. May be repeated only once. Graded credit/no credit. Prerequisites: CSCI 600, 610, 630, 655, 660 and consent of graduate coordinator. (1 unit)

## 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. (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. (2 to 4 units)

## 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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

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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. (2 to 6 units)

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## **COUNSELING AND GUIDANCE**

## Master of Science in Counseling

## and Guidance

Faculty Office Building, Room 249 (909) 537-5606 http://www.csusb.edu/coe/

**FACULTY:** Susan Brotherton, Margaret Cooney, Camille Mayers, Donna Schnorr, Dwight Sweeney, Joseph Turpin, Dudley Wiest, John Winslade

## 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:

- Attend an Educational Counseling Program admission orientation meeting (call the Department of Educational Psychology and Counseling for orientation schedule);
- 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;
  - Evidence of possession of a valid California teaching credential or a Certificate of Clearance for eligibility to participate in fieldwork;
  - h. Completion of EDUC 306 (or its equivalent) with a grade of "B" or better (fulfills the graduate entrance writing requirement);
  - 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 607.

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;
- 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 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;
- 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;
- The graduation writing requirement is met through demonstrated competence by completion of the Student Outcome Assessment Professional Portfolio;
- 5. Completion of a graduation requirement check;
- Any additional requirements not cited above and listed on Page 329.

The comprehensive examination is designed to test the student's knowledge of the field of counseling and guidance. The examination is a standardized national exam, the Counselor Preparation Comprehensive Examination (CPCE). The student will take the examination during the fourth fieldwork Experience course. 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. 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 607.
- 2. EDUC 306. Expository Writing for Education (4) or its equivalent

## **Degree Requirements (72 units)**

Introduction to Educational Research (4) 1. EDUC 607. 2. ECLG 619. Appraisal Procedures in Counseling (4) Advanced Psychological Foundations of 3. ECLG 632. Education (4) 4. ECLG 633. Advanced Study in Child and Adolescent Development (4) Applied Career Counseling (4) 5. ECLG 650. 6. ECLG 651. Professional School Counselor (4) 7. ECLG 654. Legal and Ethical Issues in Counseling and Guidance (4) Multicultural Counseling (4) 8. ECLG 655. 9. ECLG 656. Counseling Theories and Techniques (4) 10. ECLG 657A. Counseling Practicum (4) Counseling Practicum (4) 11. ECLG 657B. 12. ECLG 658. Consulting with Parents and Staff (4) 13. ECLG 672. Leadership, Advocacy and Preventive Education in Counseling (4) 14. ECLG 678. Theory and Practice in Group Counseling (4) 15. ECLG 679A. Counseling Field Experience: Multicultural (4)

16. Twelve units c	hosen 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)
ECLG 679E.	Counseling Field Experience: Educational
	Institution (4)
17. ECLG 999.	Comprehensive Examination (0)
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# 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 607 for students in the M.S. in Counseling and Guidance and the Pupil Personnel Services Credentials. Prerequisite: approval of admission portfolio. (4 units)

## 536. Social-Emotional Development of the Gifted and Talented

Social, emotional and related educational needs of gifted and talented children and youth. (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. (1 to 4 units)

#### Graduate/Postbaccalaureate

May not be taken by undergraduate students.

#### 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 EDUC 607 for students in the M.S. and P.P.S. credential program. (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; 631 or EREH 652. (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)

#### 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)

## 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)

## 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. Pre-requisites: ECLG 531; 632 or EREH 652; ECLG 656; and 657A or 657B. (4 units)

## 679. Counseling Field Experience

Field practice with direct pupil contact (minimum 150 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 657B, 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)

## 688. Advanced Behavioral Intervention and School Consultation

Examination of the central elements of behavioral intervention including monitoring progress of intervention which is empirically validated. Incorporates behavioral as well as systems consultation models. (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)

## 999. Comprehensive Examination

Assessment of the student's knowledge of the eight common core areas (standards) related to the field of counseling as designated by the California Commission on Teacher Credentialing: human growth and development, social and cultural foundations, helping relationships, group work, career and lifestyle development, appraisal, research and program evaluation and professional orientation and ethics. Graded credit/no credit. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

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## **CRIMINAL JUSTICE**

## Master of Arts in Criminal Justice

#### **Department of Criminal Justice**

Social and Behavioral Sciences Building, Room 209 (909) 537-5506 http://criminaljustice.csusb.edu/

**FACULTY:** Gisela Bichler, Frances Coles, John Conley, Christine Famega, Larry Gaines (Chair), Brian Levin, Deborah Parsons, Pamela Schram (Graduate Coordinator), 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 p.m. and 10 p.m.

## Admission to the Program

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. Completed applications for admission must be received by the graduate coordinator by April 1.

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;
- 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;
- A minimum undergraduate grade point average of at least 3.0 overall and 3.0 ("B") in the major;
- 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.

Applications will be evaluated on a competitive basis and enrollment is limited.

## Advancement to Candidacy

To be advanced to candidacy, a student must have:

- 1. Achieved classified standing;
- Traditional Thesis M.A. Option: completed all required course work except thesis, or

Professional M.A. 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"). Completed all course work with no more than one course with a grade as low as "C." 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 of "C" or lower will result in permanent dismissal from the program with no recourse to petition;
- 4. For the traditional 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;
- 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;
- 6. 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**

- 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,

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 329.

## **Degree Requirements (45 units)**

#### Plan I (Traditional Thesis Option)

or

- 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. Applying Criminological Theory to Criminal Justice (4)
- 5. CJUS 686. Graduate Review in Criminal Justice (1)
- 6. Twenty units of electives (with no more than eight units at the 500-level) to be chosen in consultation with an advisor:
  - CJUS 504. Criminal Procedure (4)
  - CJUS 550. Crime and Intelligence Analysis (4)
  - CJUS 554. Terrorism (4)
  - CJUS 570. Crime in Public Spaces (4)
  - CJUS 580. Juvenile Justice System (4)
  - CJUS 590. Topics in Criminal Justice (2 or 4) CJUS 608. Crime, Criminals and Victims (4)
  - CJUS 629. Minorities in the Criminal Justice System (4)

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	CJUS 630. CJUS 631. CJUS 632. CJUS 650. Other courses CJUS 699A. CJUS 699B.	Legal Issues in Criminal Justice (4) Seminar in Corrections (4) Seminar in Policing (4) Directed Area Studies in Criminal Justice (1-4) may be allowed with consent of department. Thesis (4) Thesis (4)
Ρ	lan II (Professio	nal Option)
1	CJUS 604.	Advanced Techniques of Basic and Applied Research in Criminal Justice (4)
2	CJUS 605.	Proseminar in Criminal Justice (4)
3		Statistical Analysis in Criminal Justice (4)
4	CJUS 607.	Applying Criminological Theory to Criminal Justice (4)
5		Graduate Review in Criminal Justice (1)
6	500-level) to b CJUS 504. CJUS 550. CJUS 554. CJUS 570. CJUS 580. CJUS 590D. CJUS 608. CJUS 629. CJUS 630. CJUS 631. CJUS 632. CJUS 650.	units of electives (with no more than 12 units at the be chosen in consultation with an advisor: Criminal Procedure (4) Crime and Intelligence Analysis (4) Terrorism (4) Crime In Public Spaces (4) Juvenile Justice System (4) Topics in Criminal Justice (may be repeated as topics change) (4) Crime, Criminals and Victims (4) Minorities in the Criminal Justice System (4) Legal Issues in Criminal Justice (4) Seminar in Corrections (4) Seminar in Policing (4) Directed Area Studies in Criminal Justice (1-4) may be allowed with consent of department.
7	CJUS 999.	Comprehensive Examination (with a grade of credit "CR") (0)

## COURSE OFFERINGS IN CRIMINAL JUSTICE (CJUS)

#### **Upper Division**

#### 504. Criminal Procedure

Examination of the rules governing criminal procedure. Impact of statutes and case law on criminal justice practitioners including the 4th, 5th, 6th, 8th and 14th Amendments as they affect the accused, the convicted, and the employees working in the criminal justice system. Formerly CJUS 304. Prerequisites: CJUS 102 and consent of instructor. (4 units)

#### 550. Crime and Intelligence Analysis

Analysis of existing criminal justice information systems with current computer applications in order to assist criminal investigations, examine crime patterns and resolve community crime problems. Analytical techniques including link diagrams, telephone tolls, and visual investigations. Prerequisites: CJUS 311 and 312 or equivalent. (4 units)

#### 554. Terrorism

Characteristics and causes of terrorism emerging in the 21st century. An analysis from a criminal justice perspective of terror movements affecting the United States covering legal issues, investigations, and criminal profile. (4 units)

#### 555. Homeland Security

Examination of homeland security events including radiological, biological and chemical events. Emphasis will be given to prevention, preparedness, and response. The roles of local, state and federal agencies are examined. (4 units)

#### 570. Crime in Public Spaces

Field research on the interrelationship between the built urban environment and crime. Involvement in a community project to study public places that generate and attract crime in order to develop creative solutions. Prerequisite: CJUS 311. (4 units)

#### 575. Internship in Criminal Justice

Supervised work and study in private or public organizations. Open only to criminal justice majors. May be repeated for credit for a total of eight units; only four may be used in the major. 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. (1 to 4 units)

#### 595. Independent Study

In-depth research into special topics concerned with the criminal justice system utilizing readings, library and/or field research. May be repeated for credit for a total of eight units; only four units may be used towards the 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. (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: CJUS 311 with a grade of "C" or better or 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: CJUS 312 with a grade of "C" or better or consent of instructor. (4 units)

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## 607. Applying Criminological Theory to Criminal Justice

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, personnel 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. (1 to 4 units)

## 686. Graduate Review in Criminal Justice

Assessment of graduate students' knowledge and understanding of criminal justice theory and practice. Required of all graduate students in criminal justice master's program. Graded credit/no credit. Prerequisite: advancement to candidacy. (1 unit)

## 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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.

- A. Prerequisite: advancement to candidacy. (4 units)
- B. Prerequisite: CJUS 699A. (4 units)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

## **ECONOMICS**

## **Department of Economics**

Social and Behavioral Sciences Building, Room 327D (909) 537-5511 http://economics.csusb.edu/

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)

### 690. Advanced Topics in Economics

Advanced study of selected areas of economics. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

## 695. Graduate Independent Study in Economics

Independent graduate research in economics. Prerequisites: graduate standing, consent of instructor, and approval of written proposal of the research. (2 to 4 units)

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## **EDUCATION**

## Master of Arts in Education

with options in: Bilingual/Cross-Cultural Career and Technical Education Correctional and Alternative Education Curriculum and Instruction **Environmental Education** Health Education Holistic and Integrative Education Instructional Technology Kinesiology Language, Literacy and Culture (Primary Language) and **BCLAD** Credential Reading/Language Arts Science Education Special Education Teaching English to Speakers of Other Languages

## **Master of Arts**

Educational Administration (Degree requirements can be found on Page 418.) Rehabilitation Counseling (Degree requirements can be found on Page 472.)

## Master of Science

Counseling and Guidance (Degree requirements can be found on Page 331.)

## **Specialist and Services Credentials**

Adapted Physical Education Specialist Administrative Services Preliminary Administrative Services Preliminary (Internship) Administrative Services Professional Preliminary Level I Education Specialist Credential: Early Childhood Special Education Professional Clear Level II Education Specialist Credential: Early Childhood Special Education Internship Education Specialist Credential: Early Childhood Special Education Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities Professional Clear Level II Education Specialist Credential: Mild/Moderate Disabilities Internship 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: Moderate/Severe 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**

Crosscultural, Language and Academic Development
(CLAD)
Early Adolescent Education
Early Childhood Special Education
Education of the Gifted and Talented
Educational Professional Services
Educational Technology
Environmental Education
Reading/Language Arts
Rehabilitation Counseling
School Business Management

## **Specialist Certificate Program**

Resource Specialist in Special Education

## **Basic Teaching Credentials**

Information on fifth-year, clear credentials and Basic Teaching Credentials (Single Subject, Multiple Subjects and Designated Subjects) can be found on Page 137.

## **Division of Teacher Education**

#### Credentials Office (C.A.S.E.)

Chaparral Hall, Room 123, (909) 537-5609 http://www.csusb.edu/coe/case/ Masters Program Office and Advanced Credentials University Hall, Room 171, (909) 537-5293 http://www.csusb.edu/coe/mac/office/index.html Multiple Subject Faculty Office Building, Room 125, (909) 537-5650 http://www.csusb.edu/coe/teo/index.html

### Single Subject

Faculty Office Building, Room 125, (909) 537-5650 http://www.csusb.edu/coe/teo/index.html

Special Education Faculty Office Building, Room 110, (909) 537-7406 Supervision Office

Faculty Office Building, Room 130, (909) 537-5698 http://www.csusb.edu/coe/so/index.html

## Department of Educational Leadership and Curriculum

Faculty Office Building, FO-144, (909) 537-7404 http://www.csusb.edu/coe/elc/index.html FACULTY: Alexander Aitcheson, Linda Braatz-Brown, Juan Gutierrez, Phyllis Hensley, James Hill, Tootie Killingsworth, Angela Louque (Chair), Ruth Norton, Deborah Stine, Stanley Swartz,

Al Wolf (Emeritus) MASTERS: Curriculum and Instruction

Educational Administration

## Department of Educational Psychology and Counseling

Faculty Office Building, FO-249, (909) 537-5606 http://www.csusb.edu/coe/epc/index.html

FACULTY: Patricia Arlin, Laura Ashcroft, Richard Ashcroft, Susan Brotherton, Margaret Cooney, Susan Daniels, Carolyn Eggleston, Thom Gehring, Young Suk Hwang, Todd Jennings, Kurt Kowalski, Camille Mayers, Kathleen Phillips, Gary Sherwin, Ruth Sandlin (Chair), Donna Schnorr, Sue Spitzer, Dwight Sweeney, Roy Thurston, Joseph Turpin, Michael Verdi, Dudley Wiest, John Winslade, Randall Wright

MASTERS: Correctional and Alternative Education Educational Counseling Rehabilitation Counseling Special Education 7

## Department of Language, Literacy and Culture

Faculty Office Building, FO-138, (909) 537-7405 http://www.csusb.edu/coe/llc/index.html

FACULTY: Maria Balderrama, Charlotte Black, Diane Brantley,

Mary Jean Comadena, Sam Crowell, Lynne Diaz-Rico,

Barbara Flores, Monica Garcia, Rosalie Giacchino-Baker,

Kimberly Hartnett, Jose Hernandez, Ina Katz, Barbara Larrivee,

Robert London, Corinne Martinez, Marjorie McCabe, Enrique Murillo,

Gary Negin, Bonnie Piller, Judy Rymer (Emeritus), Mary Jo Skillings

(Chair), Alayne Sullivan, Nena Torrez, Laura Young

MASTERS: Bilingual/Cross-Cultural

Reading/Language Arts Teaching English to Speakers of Other Languages

## Department of Science, Mathematics and Technology Education

#### Chaparral Hall, Room 107, (909) 537-5290 http://www.csusb.edu/coe/smte/index.html

**FACULTY**: Eun-Ok Baek, Bonnie Brunkhorst, Herbert Brunkhorst (Chair), Joseph Jesunathadas, Amy Leh, James Mason, Brian Newberry, Ron Pendleton, Iris Riggs, Sylvester Robertson, Rowena Santiago, Joseph Scarcella, Catherine Spencer, Darleen Stoner, Jan Woerner

Career and Technical Education
Environmental Education
Instructional Technology
Science Education
Vocational Education

## MASTER OF ARTS IN EDUCATION

The M.A. in education with an option in bilingual/crosscultural 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. 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 or to teach gifted and talented students.

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 health education is intended for persons with an undergraduate degree in health science or a closely related field, including some professional experience in a school or community agency setting. It is designed to prepare professionals in advanced health education theory, as well as program planning and administrative skills necessary to lead school districts and community agencies in the development, implementation and evaluation of state-of-the art health promotion programs for children, teens and adults, including the coordination of health promotion activities in community and/or school settings, and advocacy skills for the protection and enhancement of populational health. The M.A. in education with an option in holistic and integrative education is a program for creative educators in a nontraditional format emphasizing educational innovation, integrative learning, and meaning-centered learning.

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 science education meets the needs of the candidate who is interested in developing her/his pedagogical content knowledge in the teaching and learning of science and develop his/her background to become a science education leader in their school, district, or region. The program also provides the opportunity to increase the candidate's content knowledge in science.

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: research and design/development.

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.

## 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;
- 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;
- 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.

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## Requirements for Graduation

- 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;
- 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;
- 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;
- Any additional general requirements not cited above and listed on Page 329.

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)

	De	gree Requir	ements (48 units)
	1.	EDUC 603.	Effective Communication in Education (4)
	2.	EDUC 605.	Foundations of Education (4)
	3.	EDUC 607.	Introduction to Educational Research (4)
	4.	EELB 606.	Theory and Practice in Teaching Bilingual Students I (4)
	5.	EELB 608.	Research in Bilingual/Cross-Cultural Education (4)
	6.	EELB 612.	Social and Cultural Contexts for School Learning (4)
	7.	EESL 613.	Cognition and Language Acquisition (4)
	8.	Four units cho	sen 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:		sen from:	
		EELB 627.	Innovations in Bilingual Education (4)
		EELB 628.	Bilingualism and the Social Construction of Mind (4)
	10.	Eight units of e	electives chosen from:
		ECLG 655.	Multicultural Counseling (4)
		EDCI 664.	Thesis/Project Design in Curriculum and Instruction (2)
		EESL 670.	Principles and Practice in TESOL (4)
		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.

Culminating Project (4 units)
 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. 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.

As the Career and Technical Education core consists of three sequential courses: EVOC 637, 638 and 639, students should start with the EDUC 306 writing requirement, then complete Emphasis areas and the Education core courses, EDUC 603, 605 and 607.

## **Requirements for Graduation**

- 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;
- 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;
- Registration and successful completion of a master's degree project (EDUC 600) or comprehensive examination (EVOC 999);
- The graduation writing requirement is met upon successful completion of the master's degree project or comprehension examination;
- 6. Any additional general requirements not cited above and listed on Page 329.

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. EDUC 603. Effective Communication in Education (4)
- 2. EDUC 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)
- 4. EVOC 519. Computer Applications for Vocational Education Teachers (4)
- 5. EVOC 637. Foundations of Vocational Education (4)
- 6. EVOC 638. Critical Issues for the Professional Vocational Educator (4)

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- EVOC 639. Professional Competencies in Vocational Education (4)
   EVOC 640. Topics in Education (2)
- 9. Successful completion of Track A or Track B: Track A
- 1. EDUC 600. Master's Degree Project (4)
- Track B
- 1. EVOC 999. Comprehensive Examination (0)
- 10. Eleven units (Track A) or 15 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. EDCI 620. School Curriculum (4)
- Remaining units of electives approved by the candidate's advisor.

## **Educational Computing**

- 1. ETEC 546. Computer Based Technology in Education II (4)
- 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. Design and Development of Instructional Materials I (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 and Ethics (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. 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)
- 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 (CORRECTIONAL AND ALTERNATIVE 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 follow:

- 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. No more than 20 quarter units may be used to demonstrate fitness to complete the program (to move from conditional to classified status).

## Advancement to Candidacy

In order to be advanced to candidacy a student must have the following:

- 1. Achieved classified standing;
- 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 and 23 units of applicable course work the student is required to apply for advancement to candidacy.
- 3. Satisfactorily completed EDCA 614 and EDUC 603;
- 4. Secured approval of candidacy from the College of Education;
- 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 graduate level work, with a minimum of 35 completed in residence at this university;
- A minimum of 23 units taken after the 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;
- 4. The graduation writing requirement is met upon successful completion the Master's Degree Thesis/Project;
- 5. Successful completion of one of the following two tracks:
  - Track A. Master's Thesis/Project (8)
  - 1. EDUC 600. Master's Degree Project
  - 2. Four units of electives.

The purpose of the thesis/project is twofold. First, it demonstrates that the student has adopted a research agenda consistent with the needs of both the professional community and the researcher or scholar. Second, it demonstrates willingness and ability to direct one's effort to completion of a salient initiative.

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.

A thesis/project will be planned in consultation with 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 the approved format. Students who choose the thesis/ project option must enroll in four units in the elective category with approval of an advisor.

## Track B. Comprehensive Examination

- 1. EDCA 999. Comprehensive Examination (0)
- 2. Eight units of electives.

The written comprehensive examination is designed to test the student's knowledge in the field of correctional and alternative education. Students may take the examination twice. Students who choose the comprehensive examination option must successfully complete eight units in the electives category with approval of an advisor;

6. The graduation writing requirement is met upon successful completion of EDUC 600 or EDCA 999.

A minimum of 26 units in courses numbered 600 or above must be included in the graduate program. The program may not include more than 12 quarter units in approved extension and transfer courses from other colleges or universities. 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. Any additional general requirements not cited above are listed on Page 329.

## **Degree Requirements (48 units)**

Education Core Courses (12 units)

- 1. FDUC 603. Effective Communication in Education (4)
- 2. EDUC 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)

Correctional and Alternative Education Core (16 units)

1.	EDCA 614.	Foundations of Institutional Education: History
		and Literature (4)
2.	EDCA 616.	Teaching the Institutional Student (4)
3.	EDCA 618.	Social and Cultural Dynamics of Institutional

Education (4)

4. EDCA 620. Educational Change in Institutional Settings (4)

Electives (12 units)

2

Twelve units in the student's area of specialization, chosen in 1. consultation with advisor.

Culminating Experience (8 units)

Student must take one of the following two tracks:

#### Track A. Master's Thesis/Project option

Mactor's Degree Project (4) 1

1.	EDUC 600.	Master's Degree Project (4)
2.	Four units of e	lectives chosen from the list below:
	EDCA 628.	Special Education in Correctional Institutions (4)
	EDCA 630.	Alternative and Correctional Education (4)
	EDCA 632.	Career and Vocational Education in Correctional
		Institutions (4)
	EDCA 634.	Correctional Education Leadership (4)
	EDCA 636.	Pedagogy and Andragogy in Correctional
		Institutions (4)
	EDCA 638.	Organization of Correctional and Alternative
		Education Service Delivery (4)
	EDCA 640.	Literacy Instruction in Adult Confinement
		Institutions (4)
	EDCA 642.	Library Services for Alternative and Correctional
		Students (4)
	EDCA 644.	Pre- and Post-Release Transitions for
		Correctional Students (4)
	EDCA 646.	Comparative Correctional Education (4)
	EDCA 684.	Special Topics in Correctional and Alternative
_		Education (4)
l ra	ick B: Compre	hensive Examination Option

EDCA 999. Comprehensive Examination (0) 1.

Eight units of electives chosen from the list above. 2.

## **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 one year of 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.

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 with a grade point average of 3.0 ("B"), at least 16 2. 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;
  - Between the time of completing 15 units and 23 units of Note: applicable course work the student is required to apply for advancement to candidacy.
- Satisfactorily completed EDUC 603 and 605; 3
- Secured approval of candidacy from the College of Education; 4.
- 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.

#### **Requirements for Graduation**

- A minimum of 46 quarter units of acceptable graduate-level work, with a minimum of 33 completed in residence at this university;
- A minimum of 23 quarter units taken after the student has been 2. 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:
- Successful completion of one of the following: Track A. Master's Project (6 units)
  - 1. EDUC 600. Master's Degree Project (4)
  - 2. EDCI 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 and the Curriculum and Instruction Emphasis must enroll in eight units in the electives category with approval of an advisor. Students who choose the thesis/project option and the Early Adolescents Emphasis must enroll in four units in the electives category with approval of an advisor. Students who choose the Gifted and Talented Education Emphasis may not choose Track A.

- Track B. Comprehensive Examination (2 units)
- 1. EDCI 663. Comprehensive Evaluation in Curriculum and Instruction (2)
- 2. EDCI 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 guarters. Students may take the examination twice. Students who choose the comprehensive option and Curriculum and Instruction Emphasis must enroll in 12 units in the electives category with approval of an advisor. Students who choose the comprehensive option and the Early Adolescents Emphasis must enroll in eight units in the electives category with approval of an advisor. Students who choose the Gifted and Talented 7

2

0

0

7

Education Emphasis must complete EDCI 663 and 999, and will not enroll in any elective courses;

- 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 329.

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 605.	Foundations of Education (4)
3.	EDUC 607.	Introduction to Educational Research (4)
Cu	rriculum and Ins	struction Core (12 units)

- 1. EDCI 620. School Curriculum (4)
- 2. EDCI 624. Advanced Teaching Methodology (4)
- 3. EDCI 628. Educational Assessment in K-12 Schools (4)

Emphasis Area (8-20 units)

1. Students must choose one of the following areas:

### Curriculum and Instruction (8 units)

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:
  - EDCI 638. 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)
- 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.

#### Early Adolescents (Grades 5-9) (12 units)

Designed for current practitioners to gain expertise and knowledge in the areas of supervision early adolescent development that is needed to address the California Content and Performance Standards for grades 5-9.

- 1. EDCI 655. Early Adolescent Educational Psychology (4)
- 2. EDCI 656. Curriculum for Early Adolescents (4)

3. EDCI 657. Instructional Strategies for Early Adolescents Education (4)

#### Gifted and Talented Education (20 units)

Designed for current practitioners to gain expertise and knowledge in the area of gifted and talented education (GATE) that are needed to address the California Department of Education Standards for Programs for Gifted and Talented students. (Also provides the five courses required for the GATE Certificate.)

1.	ECLG 536.	Social-Emotional Development of the Gifted and
		Talented (4)
2.	EDCI 540.	Differentiated Curriculum and Instruction (4)
3.	EDCI 543.	Creativity, Thinking and Problem Solving (4)

- 4. ESPE 538. Introduction to Teaching the Gifted and
- 5. ESPE 539. Programs for Teaching the Gifted and Talented (4)

#### Electives (Track A: 4-8 units/Track B: 0-12 units)

Students pursuing the Curriculum and Instruction Emphasis must take eight units in Track A or twelve units in Track B. Students pursuing the Early Adolescents Track must take four units in Track A or eight units in Track B. Students pursuing the Gifted and Talented Emphasis will not enroll in any elective courses.

1. Students may select from the following list or consult with their advisor for additional elective possibilities:

advisor for additional elective possibilities:		
EADM 619.	Policy, Governance and Legal Aspects of	
	Education (4)	
EDCI 656.	Curriculum for Early Adolescents (4)	
EELB 315.	Reading/Language Arts Curriculum and	
	Pedagogy (3)	
EELB 316.	Reading/Language Arts (Primary Language)	
	Curriculum and Pedagogy (3)	
EELB 423.	Mathematics Curriculum and Pedagogy (4)	
EELB 425.	Literacy and Second Language Acquisition for	
	the Intermediate Reader and Beyond (3)	
EELB 532.	Science/Health Curriculum and Pedagogy (4)	
EELB 533.	Social Studies and the Arts Curriculum and	
	Pedagogy (4)	
EELB 534.	Social Studies and the Arts (Primary Language)	
	Curriculum and Pedagogy (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 697.	Implementing Educational Change (4)	
ETEC 546.	Computer Based Technology in Education II (4)	
	only one of the following courses or an appropriate	
• •	matter course chosen in consultation with an advi-	
sor:		
ART 499.	Art Education: Methods and Materials (4)	

ART 499.	Art Education: Methods and Materials (4
ESEC 441.	Secondary School 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. EDCI 664. Thesis/Project Design in Curriculum and Instruction (2)
  - 2. EDUC 600. Master's Degree Project (4)
- Track B: Comprehensive Examination Option (2 units)
- This track must be completed by students following the
- emphasis area of Gifted and Talented Education.
- 1. EDCI 663. Comprehensive Evaluation in Curriculum and Instruction (2)
- 2. EDCI 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. Either A or B as follows:
  - A. Possession of a valid teaching credential.
  - B. Teaching experience or related experience. One letter of recommendation from a person in a position to make relevant comments on the student's teaching experience and potential for success in the graduate education program must be submitted;
- Submission of a one-page typewritten statement of the student's preparation for graduate study in environmental education and personal goals for the graduate education program;
- 3. A cumulative undergraduate grade point average of 3.0 ("B") overall;

4. Completion of the graduate entrance writing requirement.

Students who do not meet these criteria may be admitted as conditionally classified graduate students.

### Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

- 1. Achieved classified standing;
- 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 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;
- Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education.

#### **Requirements for Graduation**

- 1. A minimum of 48 quarter units of acceptable work, with 34 completed in residence at this university;
- A minimum of 25 quarter units taken after a student has been advanced to candidacy for the degree;
- A grade point average of 3.0 ("B") in coursework taken to satisfy the Master of Arts degree requirements and grade of "C" (2.0) or better in all courses in the program;
- Culminating Experience. Student must, with the advice and approval of their advisor, choose one of the two cumulative experiences for their program of study.

#### Track A: Master's Project (6 units)

EENV 664. Project/Thesis Design in Environmental Education (2)

EENV 697. Master's Degree Project (4)

Track B: Master's Thesis (6 units)

EENV 664. Project/Thesis Design in Environmental Education (2)

#### EENV 699. Thesis (4)

The purpose of the project is for the student to communicate ideas gained through creative endeavors. The purpose of the thesis is for the student to conduct research and to communicate the results. A satisfactory project/thesis is one which reflects original work and shows a level of competence appropriate for a master's degree. All projects must be planned in consultation with the student's advisor. The student's project/thesis committee shall be chaired by the student's advisor and include at least one other member, preferably who has specialized expertise related to the

project/thesis, who is chosen by the student after consultation with the advisor.

5. The graduation writing requirement is met upon successful completion of 4A or 4B above.

Students in classified status who fail to register for at least one course in the program each quarter will automatically be declassified from the program. Classified graduate students in the program must complete their degree requirements within seven years of admission to the program.

Students who have registered for EENV 697 or 699 must retain classified standing in the master's program by enrolling in EDUC 698 each quarter until project or thesis is accepted.

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)**

Required cohort courses (14 units)

Students will be directed to register in specially designated sections of the courses below to take them as a program cohort.

- 1. EENV 635. Environmental Education in the Curriculum (4)
- 2. EENV 636. Teaching Current Environmental Issues (2)
- 3. EENV 642. Developing the Curriculum Through Outdoor Education (4)
- 4. EENV 643. Community Resources for Environmental Education (4)

Other required courses (16 units)

- 1. EDUC 603. Effective Communication in Education (4)
- 2. EDUC 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)
- 4. EENV 679. Fieldwork: Environmental Education (4)
- Electives (12 units)
- 1. Twelve units of electives of which at least four must come from group A:

Group A

EENV 601.	Graduate Independent Study (2 or 4)
EENV 620.	Using Children's Literature to Teach
	Environmentally (4)
May choose u	p to eight units from the following:
EENV 650	<ol> <li>Selected Topics in Environmental</li> </ol>
	Education (2)
EENV 651	<ol> <li>Historical and Contemporary Readings in</li> </ol>
	Environmental Education (2)
EENV 652	<ol> <li>Nature Study in Environmental Education (2)</li> </ol>
EENV 653	· · · · · · · · · · · · · · · · · · ·
EENV 654	· · · · · · · · · · · · · · · · · · ·
	Education (2)
EENV 655	
	Education (2)
EENV 656	
	Education (2)
EENV 679.	Fieldwork: Environmental Education (4)
Group B	
ANTH 375.	Museum Methods (4)
BIOL 301.	Biology in the Classroom (2)
BIOL 380.	Medical and Economic Botany (4)
CHEM 304.	Chemistry in the Classroom (2)
COMM 304.	Intercultural Communication (4)
ECON 360.	Economics of the Environment (4)
EELB 636. GEOG 350.	Advanced Science Methods (4)
	Conservation and Natural Resources (4)
GEOG 360.	Weather and Climate (4)
GEOG 470.	Hydrology and Water Resources (4)

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GEOL 304. GEOL 310. HIST 630. HSCI 352. KINE 365. MGMT 324. MGMT 326. NSCI 320. NSCI 604. PA 514. PHIL 350.	Geology in the Classroom (2) Regional Field Geology (2) California Water History (4) Principles of Environmental Health (4) Outdoor Education and Camp Leadership (4) International Environmental Management (4) Natural Resource Management (4) Energy (4) The Nature and History of Science (4) Management of Private Nonprofit Organizations (4) Ethics (4)
PHIL 350.	5 ()
PSCI 342. Other courses	The Politics of Environment (4) upon consent of advisor.

Culminating Experience (6 units)

Students must take one of the following two tracks:

#### Track A: Master's Project Option

EENV 664.	Project/Thesis Design in Environmental	
	Education (2)	
EENV 697.	Master's Degree Project (4)	
Track B: Master's Thesis Option		
EENV 664.	Project/Thesis Design in Environmental	
	Education (2)	
EENV 699.	Master's Degree Thesis (4)	

## 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;
- 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:

- . Achieved classified standing;
- 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 605 and 607;
- 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;
- At least 24 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;
- 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 requirements (16 units)

- 1. EDUC 603. Effective Communication in Education (4)
- 2. EDUC 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)
- 4. ESEC 441. Secondary School Curriculum and Instruction II (4)

Health Science requirements (16 units)

- 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. Administration of Health Education Programs (4)

Electives (8 units)

- Eight units of upper-division or graduate education, health science or other electives in consultation with the departmental advisor.
- Culminating Experience (8 units)
- 1. HSCI 699A. Thesis: Proposal Development and Research (4)
- 2. HSCI 699B. Thesis: Research Writing and Defense (4)

## M.A. IN EDUCATION (HOLISTIC AND INTEGRATIVE 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;
- Application for admission to the College of Education for the M.A. in Education, Holistic and Integrative Education Option;

3. Completion of the graduate entrance writing requirement;

4. Completion of an interview with the program coordinator;

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 program coordinator.

## 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 program coordinator and with a minimum grade point average of 3.0 ("B") or better;
- Filed an approved graduate program for completion of the degree. This must be prepared in consultation with the program coordinator.

## **Requirements for Graduation**

- 1. A minimum of 48 quarter units of acceptable work, with a minimum of 35 units completed at this university;
- 2. Successful completion of the six required program courses;
- 3. Successful completion of a M.A. project/thesis.
- 4. Any additional general requirements not cited above and listed on Page 329.

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.

## Degree Requirements (48 units)

- 1. EDUC 603. Effective Communication in Education (4)
- 2. EDUC 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)

Cohort courses (24 units)

- 1. EDUC 611. Foundations of Integrative and Holistic Models of Education (4)
- 2. EDUC 613. Integration and Meaning in Education (4)
- 3. EDUC 615. Exploring Arts, Creativity and Sign Systems (4)
- 4. EDUC 617. Exploring Integrative and Holistic Curriculum Theory (4)
- 5. EDUC 619. Seminar in Holistic Education (4)
- 6. EDUC 621. Assessment and Research: Holistic Perspective (4)

Students will be directed to register in specially designated sections of the above courses open only to teachers in the program cohort. All courses in the program are appropriate for teachers at any grade level or school setting.

#### Culminating Experience (12 units)

Students must complete category 1 or 2 below:

#### Project

- 1. EDUC 600. Master's Degree Project (4)
- 2. Eight units of individually selected coursework, approved by the program coordinator.

## **Comprehensive Examination**

- 1. EDUC 999. Comprehensive Examination (0)
- 2. Twelve units of individually selected coursework, approved by the program coordinator.

## 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. A cumulative grade point average of 3.0 ("B") in all upper-
- division courses;2. Completion of the graduate entrance writing requirement;
- Completion of the graduate entrance whiling requirement,
   Three letters of recommendation, from individuals familiar with the applicant's work history or educational background.

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;
- 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 16 units and 20 units of applicable course work the student is required to apply for advancement to candidacy.
- 3. Satisfactorily completed EDUC 607, ETEC 500, 543 and 544;
- 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**

- 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 28 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;
- 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 329.

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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)

De	gree Requir	rements (48 units)
1.	EDUC 603.	Effective Communication in Education (4)
2.	EDUC 605.	Foundations of Education (4)
3.	EDUC 607.	Introduction to Educational Research (4)
4.	ETEC 500.	Foundations in Instructional Technology (4)
5.	ETEC 543.	Technology and Learning I (4)
6.	ETEC 544.	Design and Development of Instructional
		Materials I (4)
7.		Practicum in Educational Technology (4)
8.		owing (4 units):
	Research	
	ETEC 643.	Technology and Learning II (4)
	Design/Devel	•
	ETEC 644.	Design and Development of Instructional
~		Materials II (4)
9.	Electives	haaan from
	Twelve units c ETEC 546.	
	ETEC 540. ETEC 614.	Computer Based Technology in Education II (4) Needs Assessment: Issues and Techniques (4)
	ETEC 614.	Instructional Development and Change
		Process (4)
	ETEC 623.	Technology for Educational Leaders (4)
	ETEC 634.	Information Systems in Education (4)
	ETEC 674.	Telecommunications in Education (4)
	ETEC 676.	Advanced Topics in Instructional
		Technology (2-8)
	Students may	take up to eight units from other programs,
		colleges or universities.
10.	ETEC 699.	

## 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;
- 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 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.

- 3. Satisfactorily completed EDUC 605 and 607;
- Secured the approval of candidacy from the College of Education and the Department of Kinesiology;
- 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 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 guarter.

### **Requirements for Graduation**

- 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;
- 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;
- Six specified courses in education and seven courses in kinesiology;
- 5. Successful completion of the following:

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 Graduate Coordinator in the Department of Kinesiology. The project proposal and the project must be approved by the Graduate Coordinator in the Department of Kinesiology and submitted in an approved format.

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 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)
- 4. ESEC 505P. Curriculum and Instruction Area I: P.E. (2)
- 5. ESEC 508P. Curriculum and Instruction Area II: P.E. (2)
- 6. KINE 600. Graduate Seminar (2)
- 7. KINE 623. Sport and Social Issues (4)
- 8. KINE 624. Sport Psychology (4)
- 9. KINE 630. Physical Education for Special Populations (4)
- 10. KINE 670. Leadership in Physical Education (4)
- 11. KINE 681. Exercise and Sport Science (4)
- 12. KINE 685. Analysis of Human Movement (4)
- 13. Culminating Experience
  - EDUC 600. Master's Degree Project (4)

## M.A. IN EDUCATION (LANGUAGE, LITERACY AND CULTURE [PRIMARY LANGUAGE] OPTION) AND BCLAD CREDENTIAL

## Requirements (80 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:

- 1. Admission to Multiple Subject Credential (Intern Track) with a Bilingual Crosscultural, Language and Academic Development Emphasis (BCLAD) Program. See pages 19-42 in the Handbook for the Multiple Subject Credential Programs: 2003-2004;
- Completion of application form; 2.
- 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 program coordinator.

## **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 guarter 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. The Reading Instruction Competence Assessment (RICA) exam with a passing score;
- 5. Successful completion of a comprehensive examination in bilingual education, which also satisfies the graduation writing requirement;
- 6. 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;
- 7. Any additional general requirements not cited above and listed on Page 329.

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.

## Program prerequisites (8-10 units)

- 1. Students entering the program must have successfully completed:
  - A. ENG 311. The English Language (4)
  - B. One of the following:
    - EELB 301. Growth and Development in Socio-Educational Contexts (4)
    - Introduction to Child Development (4) and a HD 240. concurrent observation course (2)

Program prerequisites or corequisites (6 units)

- 1. Students entering the program must have successfully completed or be currently enrolled in:
  - A. HSCI 100. Concepts in Health (2)
  - One of the following; B
    - Introduction to Special Populations for ESPE 350. General Education Teachers (4) PSYC 350. Development of Exceptional Children (4)

	PS10 350	Development of Exceptional Children (4)	
Degree and Credential Requirements (80 units)			
1.	EDUC 603.	Effective Communication in Education (4)	
2.	EDUC 605.	Foundations of Education (4)	
3.	EDUC 607.	Introduction to Educational Research (4)	
4.	EELB 312.	Family, Culture and Schooling (2)	
5.	EELB 317.	Educational Psychology for a Diverse	
		Society (4)	
6.	EELB 422.	Classroom Organization, Management and	
		Discipline (4)	
	EELB 423.	Mathematics Curriculum and Pedagogy (4)	
-	EELB 519.	Assessment Seminar I (2)	
	EELB 529.	Assessment Seminar II (2)	
	EELB 532.	Science/Health Curriculum and Pedagogy (4)	
	EELB 539.	Assessment Seminar III (2)	
12.	EELB 560A.	Supervised Intern Teaching in Multiple	
		Subject (8)	
13.	EELB 560B.	Supervised Intern Teaching in Multiple	
		Subject (8)	
14.	EELB 611.	Spanish Children's Literature for the Bilingual	
45		Classroom (4)	
15.	EELB 616.	Advanced Reading/Language Arts (Primary	
10	EELB 618.	Language) Curriculum and Pedagogy (4)	
10.	EELB 018.	Social and Cultural Contexts for Bilingual	
17	EELB 619.	Teaching and Learning (4) Cognition, Language Acquisition and	
17.	EELD 019.	Biliteracy (4)	
10	EELB 639.	Advanced Pedagogical Foundations for English	
10.	LLLD 059.	Language Learners (4)	
19	EELB 643.	Advanced Social Studies and the Arts (Primary	
10.	LLLD 040.	Language) Curriculum and Pedagogy (4)	
20	EELB 649.	Advanced Literacy and Second Language	
-0.	0.01	Acquisition for the Intermediate Reader and	
		Beyond (4)	
21.	EELB 999.	Comprehensive Examination (0)	
_			
Μ	M.A. IN EDUCATION		

## 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;
- A cumulative grade point average of 3.0 ("B") in all courses taken 2. in education:
- Completion of the graduate entrance writing requirement. 3.

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;

- Completed with a grade point average of 3.0 ("B"), 12 quarter units of course work at least eight 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;
- 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;
- 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), ERDG 643. Critical Issues in Intermediate Reading and Writing (4)
  - B. EDUC 600. Master's Degree Project (4);
- The graduation writing requirement is met upon successful completion of ERDG 631;
- 6. Any additional general requirements not cited above and listed on Page 329.

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. 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 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)

Reading Core (32 units)

- 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 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. Comprehensive Examination Option ERDG 643. Critical Issues in Intermediate Reading and Writing (4)
  - ERDG 999. Comprehensive Examination (0)
  - B. Master's Degree Project Option
    - EDUC 600. Master's Degree Project (4)

## M.A. IN EDUCATION (SCIENCE EDUCATION 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 basic California science teaching credential or related teaching experience;
- A cumulative grade point average of 3.0 ("B") in all courses taken in education and in science;
- 3. Completion of the graduate entrance writing requirement;
- 4. Completion of an entrance interview with at least two members of the program faculty.

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 Department of Science, Mathematics and Technology Education.

## 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 program advisors and with a minimum grade point average of 3.0 ("B") or better. At least eight units must be in Science Education and completion of EDUC 605. The remaining four units may be in science or science education;
  - **Note:** Between the time of completing 16 units and 20 units of applicable course work, the student is required to apply for advancement to candidacy.
- 3. Satisfactorily completed EDUC 605;
- 4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with a program advisor from the Department of Science, Mathematics and Technology Education and the Dean of Graduate Studies.

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## **Requirements for Graduation**

- 1. A minimum of 46 quarter units of acceptable graduate level work, with at least 34 completed in residence at this university, and 34 of the 46 units be taken at the 500- to 600-level;
- Completion of the 30 unit core in education, science education, and natural sciences. Two specified courses in education; five specified courses in science education, and one specified course in natural sciences;
- 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;
- Successful completion of the Masters Thesis/Project in Education;
- Successful completion of the thesis/project to meet the university graduation writing requirement;
- 6. The Elective Science Courses may be chosen from the list of electives in science which may include on-line courses offered by an accredited college/university, qualify for graduate credit and be approved by the program faculty.

## **Degree Requirements (46 units)**

Education Core Courses (8 units)

- 1. EDUC 605. Foundations of Education (4)
- 2. EDUC 607. Introduction to Educational Research (4)

Science Education Core Courses (18 units)

- 1. EDSC 623. The Science Curriculum (4)
- 2. EDSC 634. Research in Science Education Seminar (2)
- 3. EDSC 643. Assessment in the Science Classroom (4)
- 4. EDSC 644. Inquiry Teaching and Learning in the Science Classroom (4)
- 5. EDSC 647. Advanced Topics in Teaching Science (4)
- Natural Science Core Course (4 units)
- 1. NSCI 604. The Nature and History of Science (4)

Culminating Experience (4 units)

- 1. EDSC 699. Master's Degree Project (4)
- Elective Science Courses (12 units)

Twelve units of science electives which may be taken from the list below or others with the approval of a program advisor. Student must have the appropriate prerequisite for a particular course.

BIOL 301.	Biology in the Classroom (4)
BIOL 305.	Biology of Dinosauria (4)
CHEM 304.	Chemistry in the Classroom (2)
GEOG 350.	Conservation and Natural Resources (4)
GEOL 304.	Geology in the Classroom (2)
GEOL 309.	Earth: The Blue Planet (5)
NSCI 300.	Science and Technology (4)
NSCI 310.	The Environment and Human Survival (4)
NSCI 314.	Life in the Cosmos (4)
NSCI 360.	Legacy of Life (4)
PHYS 303.	Astronomy for Educators (3)
PHYS 304.	Physics in the Classroom (2)
PHYS 311.	A Cosmic Perspective of Earth (5)

## M.A. IN EDUCATION (SPECIAL EDUCATION OPTION) Requirements (48 units)

The Special Education Program recommends that all students pursuing the M.A. in Education, Special Education Option be enrolled concurrently in an Educational Specialist Credential program. Students pursuing only the M.A. degree must have permission from their faculty advisor.

## 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;
- Application for admission to the College of Education for the M.A. in Education, Special Education Option;
- 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);
- 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;
- Completion of the graduate entrance writing requirement by one of the following:
  - 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:

- Achieved full admission to the M.A. in Education, Special Education Option (Early Childhood, Mild/Moderate or Moderate/ Severe);
- Completion of one of the following sets of courses for the emphasis with a grade point average of 3.0 ("B") or better with no grade lower than a "B-;"
  - A. Early Childhood
    - ESPE 637. Assessment and Evaluation
    - ESPE 650. Development and Assessment of Young Children with Disabilities
    - ESPE 665. Curriculum and Methods in Special Education: Early Childhood
  - B. Mild/Moderate
    - ESPE 624. Managing Learning and Social Communities
    - ESPE 637. Assessment and Evaluation
    - ESPE 655. Curriculum and Methods in Special
  - Education: Language Arts
  - C. Moderate/Severe
    - ESPE 624. Managing Learning and Social Communities
    - ESPE 637. Assessment and Evaluation
    - ESPE 651. Curriculum Strategies for Students with Moderate/Severe Disabilities
- 3. Secured approval of candidacy from the College of Education;
- 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.

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## **Requirements for Graduation**

In addition to requirements listed on Page 329, candidates must meet the following requirements for graduation:

- 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.
- 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;
- 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. 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 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)
- 4. Four units from one of the following emphasis areas:

Early Childhood

ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)

## Mild/Moderate

ESPE 624. Managing Learning and Social Communities (4) **Moderate/Severe** 

- 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. Four units from one of the following emphasis areas: Early Childhood
  - ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)

## Mild/Moderate

ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)

#### Moderate/Severe

- ESPE 649. Curriculum and Methods in Special Education: Secondary Transition and Career/Vocational Preparation (4)
- ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
- 9. One of the following emphases:

Early Childhood

- 1. ESPE 650. Development and Assessment of Young Children with Disabilities (4)
- ESPE 653. Medical, Physical and Social Aspects of Education of Learners with Moderate/ Severe Disabilities (4)
- 3. ESPE 665. Curriculum and Methods in Special Education: Early Childhood Special Education (4)

### Moderate/Severe Disabilities

- 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

- 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:
  - Master's Degree Project (4 units)
  - 1. EDUC 600. Master's Degree Project (4)
  - Written Comprehensive Examination Option (4 units)
  - 1. ESPE 999. Comprehensive Examination (0)
  - Four units chosen in consultation with an advisor which may include one of the following: ESPE 542D. Seminar in Special Education (4)
    - ESPE 633. Reflective Inquiry Seminar and Induction Plan (4) Note: An application is required, contact the
    - ESPE 650. Development and Assessment of
      - Young Children with Disabilities (4) **Note:** not an elective for ECSE.
    - ESPE 665. Curriculum and Methods in Special Education: Early Childhood (4) Note: not an elective for ECSE.
    - ESPE 685. Advanced Behavior Management (4) Note: not an elective for ECSE.
    - ESPE 691A. Issues and Trends in Special Education: Current Issues (4)
    - ESPE 691B. Issues and Trends in Special Education: Collaboration and Consultation (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)

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## 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 requirement;
- 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:

- Achieved classified standing;
   Satisfactorily completed EDUC 603, 605 and 607;
- 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;
- 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;
- 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**

- A minimum of 48 quarter units of acceptable graduate-level work, with a minimum of 34 units completed in residence at this university;
- 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.

- The graduation writing requirement is met upon successful completion of 4A or 4B above;
- Completion of the Candidate Assessment Portfolio. Details of the Candidate Assessment Portfolio approval process are outlined in the program information materials. the Portfolio must be completed prior to enrollment in EDUC 600 or EESL 999.

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 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)
- 4. EESL 521. Computer-Assisted Language Learning (4)
- 5. EESL 536. Crosscultural Teaching (4)
- 6. EESL 545. Writing Methods in TESOL (4)
- 7. EESL 615. Research in TESOL (4)
- 8. EESL 670. Principles and Practice in TESOL (4)
- 9. Four units chosen from:
  - EESL 614. Curriculum Design in TESOL (4)
  - ESEC 511. Theory and Practice for English Language Development (ELD) (4)
- 10. Four units chosen from:
  - EESL 679. Fieldwork: Teaching English to Speakers of Other Languages (4)
  - ESEC 680. Practicum in Teaching English as a Second Language (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. EESL 999. Comprehensive Examination (0) plus eight units of electives listed below.
    Electives:
    - ECLG 655. Multicultural Counseling (4)
    - EDCI 624. Advanced Teaching Methodology (4)
    - EDCI 638. Advanced Educational Psychology (4)
    - EDCI 656. Curriculum for Early Adolescents (4) EDCI 657. Instructional Strategies for Early
      - Adolescent Education (4)
    - EELB 606. Theory and Practice in Teaching Bilingual Students I (4)
    - EELB 612. Social and Cultural Contexts for School Learning (4)
    - EELB 630. Children's Literature in the Classroom (4)
    - EELB 697. Implementing Educational Change (4)
    - EESL 544. Reading Methods for TESOL (4) EESL 613. Cognition and Language Acquisition
    - EESL 613.Cognition and Language Acquisition (4)ENG 420.English Grammar I (4)
      - (Must be taken in conjunction with EDUC 601B, Independent Study, supervised by advisor.)
    - ENG 510. English in the Secondary Classroom (4)
    - ENG 523. English Grammar II (4)
    - ENG 524. Sociolinguistics (4)
    - ENG 615. Discourse Analysis: Theories and Applications (4)
    - ENG 616. Contrastive Rhetoric (4)
    - ENG 617. Linguistic 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. Foundations 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 560.	Study Skills for Secondary School (4)
ESEC 605.	Curriculum for Specially Designed
	Academic Instruction in English (SDAIE) (2)
ETEC 544.	Design and Development of Instructional
	Materials I (4)
ETEC 634.	Information Systems in Education (4)
ETEC 674.	Telecommunications in Education (4)
EVOC 504.	Principles of Adult Education (4)
HIST 566.	Ethnic Minorities in the American Southwest:
	Past and Present (4)
	A stan American Functions (A)

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.

## Recommendation for the Adapted Physical Education Credential:

In addition to successfully completing the adapted physical education program requirements and credential coursework, the candidate must successfully complete requirements to receive a recommendation for the Adapted Physical Education Specialist Credential including a final written exit examination and exit interview with the adapted physical education coordinator at CSUSB. See Page 222 for requirements.

## **Credential Requirements (16 units)**

Upper-division requirements (16 units)

1.	ESPE 530.	Psychology and Education of Exceptional
		Individuals (4)
2.	KINE 330.	Movement Skill Assessment for Individuals with
		Disabilities (4)
3.	Eight units cho	osen from:
	KINE 331A.	Topics in Adapted Physical Education:
		Adapted aquatics (2)
	KINE 331B.	Topics in Adapted Physical Education:
		Physical Disabilities (2)
	KINE 331C.	Topics in Adapted Physical Education:
		Disabilities in Learning (2)
	KINE 331D.	Topics in Adapted Physical Education:
		Disabilities in Communication (2)
	KINE 331E.	Topics in Adapted Physical Education:

KINE 331E. Topics in Adapted Physical Education: Severe and Profound Disabilities (2)

## ADMINISTRATIVE SERVICES PRELIMINARY CREDENTIAL

### Requirements (37 units)

This program is under revision due to new state licensing standards and requirements. See the Department for information on the new curriculum and course requirements.

## 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;
- One year of full-time credentialed experience, school-related nursing and/or counseling experience. A valid California teaching, pupil personnel, health services credential, or full-time designated subject credential (with B.A.);
- 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:

- 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 courses (6 units)

- 1. EADM 601. Educational Leadership and Ethics (4)
- 2. EADM 603. Application of Leadership, Ethics and Organizational Theory (2)

Core Courses (31 units)

- 1. EADM 607. Culture, Politics and Communication in a Diverse Society (4)
- 2. EADM 610. Supervision and Evaluation of Teachers (4)
- 3. EADM 617. Cultural and Political Experiences (2)
- 4. EADM 619. Policy, Governance and Legal Aspects of Education (4)
- 5. EADM 620. Practicum in Educational Administration (3)
- 6. EADM 622. Curriculum, Instruction and Assessment (4)
- 7. EADM 624. Organizational, Personnel and Fiscal Management (4)
- 8. EADM 627. Portfolio Evaluation (2)
- 9. EADM 621A. Fieldwork in Educational Administration (2)
- 10. EADM 621B. Fieldwork in Educational Administration (2)
  - Note: Students must see program coordinator/advisor for recommended sequence of program.

## 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;
- A valid California teaching or pupil personnel or health services credential;

- A 3.0 ("B") grade point average in all coursework taken in education;
- 4. Completion of the graduate entrance writing requirement;
- Verification of three full time years of teaching, counseling, or other certified work;
- A valid California teaching, pupil personnel or health services credential or full time designated subject credential (with B.A.);
- 7. A contract between the student and the appropriate school board defining the administrative position;
- 8. Students must enroll in EADM 630 each quarter they remain in the program and complete the program within two years;
- 9. The internship credential from the Commission for Teacher Credentialing.

## **Recommendation for the Credential**

Recommendation to be recommended for the administrative services preliminary credential, a candidate must:

1. Successfully complete the regular program for the Preliminary Administrative Services Credential.

## **Credential Requirements (37 units)**

Prerequisite/corequisite courses (6 units)

- EADM 601. Educational Leadership and Ethics (4)
   EADM 603. Application of Leadership, Ethics and
- 2. CADIM 003. Application of Leadership, Ethics Organizational Theory (2)

Core Courses (31 units)

1.	EADM 607.	
		Diverse Society (4)
2.	EADM 610.	Supervision and Evaluation of Teachers (4)
3.	EADM 617.	Cultural and Political Experiences (2)
4.	EADM 619.	Policy, Governance and Legal Aspects of
		Education (4)
5.	EADM 620.	Practicum in Educational Administration (3)
6.	EADM 622.	Curriculum, Instruction and Assessment (4)
7.	EADM 624.	Organizational, Personnel and Fiscal
		Management (4)
8.	EADM 627.	Portfolio Evaluation (2)
9.	EADM 630.	Internship Fieldwork in Educational
		Administration (4)
	Note: Stu	idents must see program coordinator/advisor for
	rec	commended sequence of program.

## ADMINISTRATIVE SERVICES PROFESSIONAL CREDENTIAL PROGRAM Requirements (18 units)

This program is under revision due to new state licensing standards and requirements. See the Department for information on the new curriculum and course requirements.

## 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 present employment in an administrative position;
- 4. A 3.0 ("B") grade point average in all graduate work;
- 5. An Individual Program Plan (IP) on file.

## **Recommendation for the Professional Credential**

In order to be recommended for a credential, the student must have:

- 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 fulltime school administrative position.

## **Credential Requirements (18 units)**

- 1. EADM 681. Vision and Learning (3)
- 2. EADM 682. Culture for Student Learning and Professional Growth (3)
- 3. EADM 683. Organization and Resource Management (3)
- 4. EADM 684. Collaboration with Diverse Families and
- 5. EADM 685. Leadership Capacity and Ethics (3)
- 6. EADM 686. Factors of School Context (3)

The program includes development of an individual induction plan for each candidate based on a needs assessment and includes a mentoring component.

Students with five or more years experience in educational administration must register for courses but may document proficiency on administrative services standards as an alternative to completing course assignments with consent of the program coordinator.

## PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIAL: EARLY CHILDHOOD SPECIAL EDUCATION

## Requirements (48 units)

Completion of this credential certifies teachers to work with children from birth through six years of age who have disabilities or who are at risk of acquiring disabilities.

### 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: Early Childhood Special Education Program requires the following:

- 1. Official admission to the university;
- Application for admission to the College of Education for the Preliminary Level I Education Specialist Credential: Early Childhood Special Education;
- 3. Documentation of a minimum of 45 hours of experience in an Early Childhood Special Education Program setting;
- Written verification of passing score on the California Basic Educational Skills Test (CBEST);
- 5. Original verification of a negative tuberculin examination within the last four years;
- 6. Establishment of competency in early childhood by the completion of the following courses or their equivalent. Some course requirements may be substituted by work experience if approved by the department chair.
  - HD 280. Early Childhood Development (5)
  - HD 281A. Guidance of Young Children (4)
  - HD 281B. Guidance of Young Children: Laboratory (2)
  - HD 282A. Early Childhood Curriculum and Programs (4)
  - HD 282B. Early Childhood Curriculum and Programs: Laboratory (2)
  - PSYC 270. Infant and Toddler Development (5)
- 7. Application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- 8. Attendance at a mandatory Special Education group advising session;
- 9. Consultation with assigned faculty advisor to complete Advising Confirmation form.

## **Recommendation for the Credential**

In addition to the program admission requirements and Level I credential course work, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Level I Education Specialist Credential: Early Childhood Special Education.

- 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 upper division writing 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 Administration 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 another 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.

- 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 U.S. Constitution course substitution from another university;
- Original verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
- 4. 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.

## **Credential Requirements**

Level I General Education/Development Courses (18 units)

Completion of the following courses with a grade point average of 3.0 or better and no grade lower than a "B-:"

- EELB 317. Educational Psychology for a Diverse Society (4)
- HD 240. Introduction to Child Development (4) and an appropriate observation course (HD 245, 246 or 247) (2)

One four-unit HD course with approval of advisor PSYC 305. Psycholinguistics (4)

Additional multiple subject and single subject requirements must be fulfilled for a CLAD certificate

## Level I Special Education Courses (36 units)

- 1. ESPE 529. Introductory Methods for Special Education (4) (with a grade of "B" or better)
- 2. ESPE 530. Psychology and Education of Exceptional Individuals (4) (with a grade of "B" or better)
- 3 ESPE 637. Assessment and Evaluation (4)
- 4. ESPE 650. Development and Assessment of Young Children with Disabilities (4)

- 5. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)
- ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
- 7. ESPE 665. Curriculum and Methods in Special Education: Early Childhood Special Education (4)
- 8. ESPE 679F. Special Education Fieldwork: Early Childhood Special Education I (4) for a total of (8)

Upon completion of competency in early childhood content area, 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 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 LEVEL II EDUCATION SPECIALIST CREDENTIAL: EARLY CHILDHOOD SPECIAL EDUCATION Requirements (20 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: Early Childhood Special Education program requires the following:

- 1. Official admission to the university;
- Submission of a valid Preliminary Level I Education Specialist Credential: Early Childhood;
- Application to ESPE 633. Reflective Inquiry Seminar and Induction Plan. Applications are available in the Special Education Office, FO-146, (909) 537-7406.

## **Recommendation for the Credential**

In addition to the program admission requirements and Level II 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 540. School Health Program Practices (4)2. 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. Computer Based Technology in Education I (2)
  - ETEC 546. Computer Based Technology in Education II (4)

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- 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: Early Childhood Special Education.

## Level II Credential Coursework (20 units)

- 1. ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
- 2. ESPE 635. Effective Communication with Professionals and Families (4)
- 3. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
- 4. ESPE 685. Advanced Behavior Management (4)
- 5. ESPE 679G. Special Education Fieldwork: Early Childhood Special Education II (4)

## INTERNSHIP EDUCATION SPECIALIST CREDENTIAL: EARLY CHILDHOOD SPECIAL EDUCATION

## Requirements (54 units)

The Early Childhood Special Education Intern Program is an alternative preparation program in which interns are employed fulltime as teachers for children who are between birth and six years of age and have disabilities. While enrolled in this program, students earn the preliminary Level I Education Specialist Credential for Early Childhood Special Education. The program must be completed in five consecutive quarters. Interns earn tenure credit in their districts and receive ongoing supervision/support from a university supervisor and district support provider. Interested applicants should contact the Early Childhood Special Education Intern Coordinator for program information, including the program course sequence and program costs.

## 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:

- Written verification of passing score for the California Basic Educational Skills Test (CBEST);
- Verification of a plan to complete subject matter coursework. Work experience can be substituted for some of the following courses:
  - HD 280. Early Childhood Development (5)
  - HD 281A. Guidance of Young Children (4)
  - HD 281B. Guidance of Young Children: Laboratory (2)
  - HD 282A. Early Childhood Curriculum and Programs (4)
  - HD 282B. Early Childhood Curriculum and Programs:
  - Laboratory (2) PSYC 270. Infant and Toddler Development (5);
- Three written recommendations, including at least one from immediate supervisor;
- 4. Interview by university/school district representatives.

## Recommendation for the Internship Education Specialist Credential: Early Childhood Special Education

- Submission of application for the Internship Education Specialist Credential: Early Childhood Special Education;
- Employment as a class teacher for children between birth and five years of age in a participating school district, verified by district intern contract;
- Verification of a negative tuberculin examination within the last four years;

- 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 U.S. Constitution course substitution at another university.

While enrolled in the program, students are required to register for courses during five consecutive quarters. During fall, winter, and spring quarters, students enroll each quarter in two courses and one eight-unit fieldwork course. During summer quarter, students enroll in three courses. All students are required to meet with the program coordinator and complete a Program Coursework Plan prior to beginning their course of study.

## **Credential Requirements**

Level I General Education/Development Courses (18 units)

Completion of the following courses with a grade point average of 3.0 or better and no grade lower than a "B-:"

EELB 317.	Educational Psychology for a Diverse
	Society (4)
HD 240.	Introduction to Child Development (4) and an ap-
	propriate observation course (HD 245, 246 or
	247) (2)
One four-unit	HD course with approval of advisor
PSYC 305.	Psycholinguistics (4)

Level I Credential Coursework (36 units)

- 1. ESPE 529. Introductory Methods for Special Education (4) (with a grade of "B" or better)
- 2. ESPE 530. Psychology and Education of Exceptional Individuals (4) (with a grade of "B" or better)
- 3 ESPE 637. Assessment and Evaluation (4)
- 4. ESPE 650. Development and Assessment of Young Children with Disabilities (4)
- 5. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)
- ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)
- 7. ESPE 665. Curriculum and Methods in Special Education: Early Childhood Special Education (4)
- 8. ESPE 680C. Intern Teaching: Special Education (8)

Upon completion of competency in early childhood content area, 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 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.

## PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES

## Requirements (43-49 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; 1.
- Application for admission to the College of Education for the Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities Program;
- 3. Submit documentation of a minimum of 45 hours in a K-12 classroom.
- 4. Written verification of having taken the California Basic Educational Skills Test (CBEST); (Note: Passing scores required for recommendation for the credential.)
- 5. Verification of a negative tuberculin examination within the last four years;
- 6. Verification for appropriate subject matter competency;
- 7. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- 8. Attend mandatory Special Education group advising session;
- 9. Meet with assigned faculty advisor to complete Advising Confirmation form.

## **Recommendation for the Credential**

In addition to the program admission requirements and Level I course work, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Level I Education Specialist Instruction Credential:

- 1. 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. Original verification of a passing score on the appropriate subject matter examination(s);
  - 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;
- 2. Completion of the upper division writing requirement by one of the following:
  - A. 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)

- B. Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another 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;
- CBEST exam does not meet the graduate writing Note: requirement for the Master of Arts degree;

- 3. 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 U.S. Constitution course substitution from another university;
- 4. Verification of passing status and scores on the California Basic Educational Skills Test (CBEST);
- 5. 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. Call the C.A.S.E. Office, (909) 537-5609, 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.

## Credential Requirements

Level I General Education Courses (15-17 units)

Completion of 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.	. One course chosen from:			
	HD 240.	Introduction to Child Development (4) and an ap-		
		propriate observation course (HD 245, 246 or		
		247) (2)		
	EELB 301.	Growth and Development in Socio-Educational		
		Contexts (4)		
	PSYC 320.	Psychology of Middle Childhood (4)		
2.	EELB 317.	Educational Psychology for a Diverse		
		Society (4)		
3.	EELB 423.	Mathematics Curriculum and Pedagogy (4)		
4.	Three units ch	nosen from:		
	EELB 315.	Reading/Language Arts Curriculum and		
		Pedagogy (3)		
	EELB 316.	Reading/Language Arts (Primary Language)		
		Curriculum and Pedagogy (3) Only for BCLAD		
		students		
Sir	Single Subject Track			
1.	ESEC 317.	Educational Psychology for a Diverse		
		Society (4)		
2.	EELB 423.	Mathematics Curriculum and Pedagogy (4)		
2	ESEC 440	Adelegeent Development and Educational		

- 3. ESEC 410. Adolescent Development and Educational Contexts (4)
- 4. ESEC 419. Teaching Reading and Writing in Secondary School Subjects (4)

Additional multiple subject and single subject requirements must be fulfilled for a CLAD certificate.

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## Level I Special Education Courses (28-32 units)

1.	ESPE 529.	Introductory Methods for Special Education (4)
		(with a grade of "B" or better)
2.	ESPE 530.	Psychology and Education of Exceptional
		Individuals (4) (with a grade of "B" or better)
3.	ESPE 624.	Managing Learning and Social Communities (4)
4.	ESPE 637.	Assessment and Evaluation (4)
5.	ESPE 655.	Curriculum and Methods in Special Education:
		Language Arts (4)
6.	ESPE 660.	Instructional Planning for Culturally and
		Ethnically Diverse Students with Special
		Needs (4)
7.	One of the foll	lowing field experience courses:
	ESPE 609A.	
		Experiences: Mild/Moderate Disabilities (8)
		Special Education Fieldwork: Mild to Moderate

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 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;
- Submission of a valid Preliminary Level I Education Specialist Credential;
- Application to ESPE 633. Reflective Inquiry Seminar and Induction Plan. Applications can be obtained from the Special Education Office, FO-146, (909) 537-7406.

## **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 540. School Health Program Practices (4) 2. Verification of current and valid CPR certification for infants/ ado-
- verification of current and valid CPR certification for infants/ adolescents/adults;
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- The following are required to fulfill the computer literacy requirement (with a grade of "B-" or better):
  - ETEC 537. Computer Based Technology in Education I (2) ETEC 546. Computer Based Technology in Education II (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 656. Curriculum and Methods in Special Education: Core Subjects (4)
- 5. ESPE 679B. Special Education Fieldwork: Mild/Moderate Disabilities II (4)
- 6. ESPE 685. Advanced Behavior Management (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);
- 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 or CSET: 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;

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- 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

- Submission of application for the Internship Education Specialist Credential: Mild/Moderate Disabilities;
- Employment as a special day class teacher for pupils with mild/moderate disabilities in a participating school district, verified by district intern contract;
- Verification of a negative tuberculin examination within the last four years;
- 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 U.S. Constitution course substitution at another university.

## 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.

- 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 440. Family Health Issues for Educators (4)3. Verification of current and valid CPR certification for infants/ado-
- 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. Computer Based Technology in Education I (2)
  - ETEC 546. Computer Based Technology in Education II (4)

- 5. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
- 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, (909) 537-5609.

## Credential and CLAD Requirements

#### Pre-employment

1.	ESPE 529.	Introductory Methods for Special Education (4)
Year One		

## Fall

- ESPE 656. Curriculum and Methods in Special Education: Core Subjects (4)
   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 312.Family, Culture and Schooling (2)ESEC 321.Culture and Schooling (4)
- 2. Four units chosen from:
  - EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
  - 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

- ESPE 530. Psychology and Education of Exceptional Individuals (4)
   Curriculum and Methods in Special Education
- 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:
  - ELB 511. Theory and Practice for English Language Development (ELD) (4) ESEC 511. Theory and Practice for English Language Development (ELD) (4)
- 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 423. Mathematics Curriculum and Pedagogy (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 312, ESEC 321, 511, 605 or 680.

## 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:

- 1. Official admission to the university;
- 2. Application for admission to the College of Education for the Preliminary Level I Education Specialist Instruction Credential;
- 3. Submit documentation of a minimum of 45 hours in a K-12 classroom;
- Written verification of having taken the California Basic Educational Skills Test (CBEST);
- Original verification of a negative tuberculin examination within the last four years;
- 6. Verification for the appropriate subject matter competency;
- Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
- 8. Attend mandatory Special Education group advising session;
- 9. Meet with assigned faculty advisor to complete Advising Confirmation form.

## **Recommendation for the Credential**

In addition to the program admission requirements and Level I course work, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Level I Education Specialist Credential:

- 1. 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;
  - B. Original verification of a passing score on the appropriate subject matter examination(s);
  - 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;
- Completion of the upper division writing requirement by one of the following:
  - A. 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)

- B. Completion, with a grade of "B" (3.0) or better, of an equivalent advanced expository writing course at another 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. 3. 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 U.S. Constitution course substitution from another university;
- 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. Call the Credential Assistance for Students in Education office (C.A.S.E.), (909) 537-5609, for further information.

- 6. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-;"
- 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.

## **Credential Requirements**

Level I General Education Courses (15-17 units)

Completion of 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.	1. One course chosen from:	
	HD 240.	Introduction to Child Development (4) and an ap-
		propriate observation course (HD 245, 246 or 247) (2)
	EELB 301.	Growth and Development in Socio-Educational
		Contexts (4)
	PSYC 320.	Psychology of Middle Childhood (4)
2.	EELB 317.	Educational Psychology for a Diverse Society (4)
3.	EELB 423.	Mathematics Curriculum and Pedagogy (4)
4.	Three units chosen from:	
	EELB 315.	Reading/Language Arts Curriculum and
		Pedagogy (3)
	EELB 316.	Reading/Language Arts (Primary Language)
		Curriculum and Pedagogy (3) only for BCLAD
		students

#### Single Subject Track

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- 1. ESEC 317. Educational Psychology for a Diverse Society (4)
- 2. EELB 423. Mathematics Curriculum and Pedagogy (4)
- 3. ESEC 410. Adolescent Development and Educational Contexts (4)
- 4. ESEC 419. Teaching Reading and Writing in Secondary School Subjects (4)

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Additional multiple subject or single subject or single subject requirements must be fulfilled for the CLAD certificate.

## Level I Credential Requirements (28-32 units)

	1.	ESPE 529.	Introductory Methods for Special Education (4) (to be completed with a grade of "B" or better)		
	2.	ESPE 530.	Psychology and Education of Exceptional Individuals (4) with a grade of "B" (3.0) or better		
	3.	ESPE 624.	Managing Learning and Social Communities (4)		
	4.	ESPE 637.	Assessment and Evaluation (4)		
	5.	ESPE 651.	Curricular Strategies for Students with		
			Moderate/Severe Disabilities (4)		
	6.	ESPE 660.	Instructional Planning for Culturally and		
			Ethnically Diverse Students with Special		
			Needs (4)		
7. One of the following:		owing:			
		ESPE 609C.	General and Special Education Field		
			Europeira e a Madanata (Osuana Disabilitian (O)		

- Experiences: Moderate/Severe Disabilities (8) 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;
- Submission of a valid Preliminary Level I Education Specialist Credential;
- Application to ESPE 633. Reflective Inquiry Seminar and Induction Plan. Applications are available in the Special Education Office, FO-146, (909) 537-7406.

## **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 540. School Health Program Practices (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. Computer Based Technology in Education I (2)
- ETEC 546. Computer Based Technology in Education II (4)
  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)

- 1. ESPE 633. Reflective Inquiry Seminar and Induction Plan (4)
- 2. ESPE 635. Effective Communication with Professionals and Families (4)
- 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 679D. Special Education Fieldwork: Moderate/Severe Disabilities II (4)
- 6. ESPE 685. Advanced Behavior Management (4)

## INTERNSHIP EDUCATION SPECIALIST CREDENTIAL: MODERATE/SEVERE DISABILITIES

## Requirements (44-48 units)

The Moderate/Severe Disabilities Intern Program is an alternative preparation program in which interns are employed full-time as special day class teachers for pupils with moderate/severe disabilities while earning the Preliminary Level I Education Specialist Credential for Moderate/Severe Disabilities. All requirements must be completed in five consecutive quarters. Interns earn tenure credit in their districts and receive ongoing supervision/support from a university supervisor and district support provider. Interested applicants should contact the Moderate/Severe Disabilities Intern Coordinator for program information, including the program course sequence and program costs.

## 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:

- Written verification of passing score for the California Basic Educational Skills Test (CBEST);
- 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 CSET 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;

- Three written recommendations, including at least one from immediate supervisor;
- 4. Interview by university/school district representatives.

## Recommendation for the Internship Education Specialist Credential: Moderate/Severe Disabilities

- 1. Submission of application for the Internship Education Specialist Credential: Moderate/Severe Disabilities;
- Employment as a special day class teacher for pupils with moderate/severe disabilities in a participating school district, verified by district intern contract;
- Verification of a negative tuberculin examination within the last four years;
- 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 U.S. Constitution course substitution at another university.
- 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 the RICA. Contact C.A.S.E. for further information (909) 537-5609.

## **Credential Requirements**

While enrolled in the program, students are required to register for five consecutive quarters. During fall, winter, spring and summer quarters, students enroll each quarter in two courses and one eightunit fieldwork course. All students are required to meet with the program coordinator and complete a Program Coursework Plan prior to beginning their course of study. The following Level I General Education courses need to be completed with a grade point average of 3.0 or better and no grade lower than "B-:"

- 1. EELB 301. Growth and Development in Socio-Educational Contexts (4)
- 2. EELB 315. Reading/Language Arts Curriculum and Pedagogy (3)
- EELB 317. Educational Psychology for a Diverse Society (4)
   EELB 423. Mathematics Curriculum and Pedagogy (4)
- The following Level I Special Education course needs to be completed with a grade of "B" (3.0) or better:
- 5. ESPE 530. Psychology and Education of Exceptional Individuals (4)

The following Level I Special Education courses need to be completed with a grade point average of 3.0 or better and no grade lower than "B-:

- 6. ESPE 529. Introductory Methods for Special Education (4)
- 7. ESPE 624. Managing Learning and Social Communities (4)
- 8. ESPE 637. Assessment and Evaluation (4)
- 9. ESPE 651. Curricular Strategies for Students with Moderate to Severe Disabilities (4)
- 10. ESPE 660. Instructional Planning for Culturally and Ethnically Diverse Students with Special Needs (4)

11. ESPE 680B. Intern Teaching: Special Education (8)

Upon completion of competency in early childhood content area, 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.

## 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:

- Attend an Educational Counseling Program admission orientation meeting (call the Department of Educational Psychology and Counseling for orientation schedule);
- 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 a valid California teaching credential or a Certificate of Clearance for eligibility to participate in fieldwork;
  - h. Completion of EDUC 306 (or its equivalent) with a grade of "B" or better (fulfills the graduate entrance writing requirement);
  - 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 607.

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

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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 graduate-level work, with a min-
- imum of 32 units completed in residency at this university;
- 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 no grade below a "C" (2.0) or better in all other courses in the program;
- Completion of a credential program plan of study, certified by a program advisor and the credentialing office of the university;
- Completion of a final competency check through demonstrated competence by completion of the Student Outcome Assessment Professional Portfolio.

Prerequisite courses:

- 1. ECLG 531. Introduction to Counseling (4)
- Note: Must be taken concurrently with EDUC 607.
  2. EDUC 306. Expository Writing for Education (4) (or its equivalent)

#### Credential requirements (72 units)

1.	EDUC 607.	Introduction to Educational Research (4)
2.		Appraisal Procedures in Counseling (4)
2. 3.		Advanced Psychological Foundations of
5.	LULG 032.	Education (4)
4.	ECLG 633.	
4.	ECLG 033.	Advanced Study in Child and Adolescent
~		Development (4)
5.	ECLG 650.	Applied Career Counseling (4)
6.		Professional School Counselor (4)
7.	ECLG 654.	Legal and Ethical Issues in Counseling and
		Guidance (4)
8.	ECLG 655.	Multicultural Counseling (4)
9.	ECLG 656.	Counseling Theories and Techniques (4)
10.	ECLG 657A.	Counseling Practicum (4)
11.	ECLG 657B.	Counseling Practicum (4)
12.	ECLG 658.	Consulting with Parents and Staff (4)
13.	ECLG 672.	Leadership, Advocacy, and Preventive
		Education in Counseling (4)
14.	ECLG 678.	Theory and Practice of Group Counseling (4)
15.	ECLG 679A.	Counseling Fieldwork: Multicultural (4)
16.	Twelve units c	0
	ECLG 679B.	Counseling Fieldwork: Elementary School (4)
	ECLG 679C.	Counseling Fieldwork: Middle School (4)
	ECLG 679D.	Counseling Fieldwork: High School (4)
	ECLG 679E.	Counseling Fieldwork: Educational
	LOLO 073L.	Institution (4)

## PUPIL PERSONNEL SERVICES CREDENTIAL: SCHOOL PSYCHOLOGY

#### Requirements (51 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 2001.

The School Psychologist Credential program is a 51-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 (46 units) as well as the school psychology specialization standards courses (51 units). 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 (51-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;
- Two 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;
- Proof of passing the California Basic Educational Skills Test (CBEST);
- Evidence of possession of professional liability insurance (may be provided once accepted into program);
- 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 (46-97 units)

Common Standard Courses (46 units)

Common Standard Courses (46 units)				
	1.	EDUC	607.	Introduction to Educational Research (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	654.	Legal and Ethical Issues in Counseling and
				Guidance (4)
	6.	ECLG	655.	Multicultural Counseling (4)
	7.	ECLG	656.	Counseling Theories and Techniques (4)
	8.	ECLG	657A.	Counseling Practicum (4)
	9.	ECLG	658.	Consulting with Parents and Staff (4)
	10.	ECLG	678.	Theory and Practice of Group Counseling (4)
	11.	ECLG	679A.	Counseling Fieldwork: Multicultural (4)
				(200 hours)
	12.	ECLG	696.	Special Topics in Counselor Education (2)
	Sch	ool Psy	ychology	/ Specialization Standards (51 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	688.	Advanced Behavioral Intervention and
				Consultation (4)
	-	ECLG		Seminar/Internship in School Psychology (4)
		ECLG		Seminar/Internship in School Psychology (4)
		ECLG		Seminar/Internship in School Psychology (4)
		ECLG		Seminar/Internship in School Psychology (4)
	12.	ECLG	693.	Special Topics in School Psychology (4)

## PUPIL PERSONNEL SERVICES CREDENTIAL: SOCIAL WORK

## Requirements (106-122 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. (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 608D. Field Work (4)
  - SW 608E. Field Work (4)
  - SW 608F. Field Work (4)
- 4. ECLG 619. Appraisal Procedures in Counseling (4)

- 5. ECLG 632. Advanced Psychological Foundations of Education (4)
- ECLG 650. Applied Career Counseling (4)
   ECLG 654. Legal and Ethical Issues in Counseling and
- Guidance (4)8. SW 999.Graduate Comprehensive Examination (0)
- Sw 959. 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 and 3 into the 90 units of the M.S.W. for a total of 106 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:

- 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;
- 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;
- 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

- 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)
Lev	el II: to be take	en 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 (46 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;
- 4. An Audiometry course.

## **Recommendation for the Professional Credential**

In order to be recommended for a credential, the student must have:

- 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**

Foundation Course (2 units)

Stu	udents must co	mplete HSCI 505 before taking Core Courses
4		School Nurse Credential Drearem

1. HSCI 505. School Nurse Credential Program Orientation (2)

Core Courses (44 units)

	· ·	,
1.	ESPE 530.	Psychology and Education of Exceptional Individuals (4)
~		
	HSCI 342.	Nutrition for Your Health (4)
3.	HSCI 364.	Drug and Alcohol Use and Abuse (4)
4.	HSCI 432.	School Health Administration and Planning (4)
5.	HSCI 433.	Health Education in the Secondary School (4)
6.	HSCI 471.	Health Promotion: Program Planning and
		Implementation (4)
7.	HSCI 635.	Communication and Human Relations in Health
		Services (4)
8.	NURS 502.	Health Assessment of Children and
		Adolescents (4)
9.	NURS 503.	Principles of School Nursing Practice (4)
10.	NURS 504.	School Nursing Internship (4)
11.	Four units of e	lectives may be selected after consultation with the
	student's facul	lty advisor.
	Note: A cre	dentialed school nurse who completes the follow-
	ing c	ourses will qualify for a Single Subject Teaching
		ential in Health:
		V 473. Instructional Methods in Health
	noc	Education (4)

HSCI 591.	Health Education Curriculum and
	Instruction (4)

HSCI 592. Health Teaching Practicum (4)

## 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. See Page 55 for additional certificate information.

## Certificate in Crosscultural, Language and Academic Development (CLAD)

## Admission to the Program

- 1. Postbaccalaureate standing;
- Completion of a single subject or multiple subject teaching credential or the equivalent.

## Certificate Requirements (18 units)

- 1. Four units chosen from:
  - EELB 312. Family, Culture and Schooling (2)
  - EESL 536. Crosscultural Teaching (4)
  - ESEC 321. Culture and Schooling (4)
- 2. Four units chosen from:
  - EELB 313. Pedagogical Foundations for English Language Learners (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. 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)

## 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)

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## **Certificate in Early Adolescent Education**

## Admission to the Program

1. Postbaccalaureate standing.

## Certificate Requirements (16 units)

- 1. EDCI 628. Educational Assessment in K-12 Schools (4)
- 2. EDCI 655. Early Adolescent Educational Psychology (4)
- 3. EDCI 656. Curriculum for Early Adolescents (4)
- 4. EDCI 657. Instructional Strategies for Early Adolescent Education (4)

## Certificate in Early Childhood Special Education Certificate

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Early Childhood Special Education Certificate requires the following:

- 1. Official admission to the university;
- 2. A valid special education instructional specialist credential;
- Submit documentation of a minimum of 45 hours in an Early Childhood Special Education Program setting;
- 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;
- 5. ESPE 530 and PSYC 305 or their equivalent;
- 6. Minimum of 20 credit hours in special education;
- 7. Attend mandatory Special Education group advising session;
- Meet with assigned faculty advisor to complete Advising Confirmation form.

## Certificate Requirements (29 units)

- 1. HD 280. Early Childhood Development (5)
- 2. PSYC 270. Infant and Toddler Development (4)
- 3. ESPE 650. Development and Assessment of Young Children with Disabilities (4)
- 4. ESPE 651. Curricular Strategies for Students with Moderate/Severe Disabilities (4)
- 5. ESPE 652. Applied Curricular Strategies for Students with Moderate/Severe Disabilities (4)
- 6. ESPE 665. Curriculum and Methods in Special Education: Early Childhood Special Education (4)
- 7. ESPE 679F. Special Education Fieldwork: Early Childhood Special Education I (4)

## Certificate in Education of the Gifted and Talented

## Certificate Requirements (20 units)

1.	ECLG 536.	Social-Emotional Development of the Gifted and
		Talented (4)
2.	EDCI 540.	Differentiated Curriculum and Instruction (4)
3.	EDCI 543.	Creativity, Thinking and Problem Solving (4)
4.	ESPE 538.	Introduction to Teaching the Gifted and
		Talented (4)
5.	ESPE 539.	Programs for Teaching the Gifted and
		Talented (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. EDCI 628. Educational Assessment in K-12 Schools (4)
- 2. EDCI 638. Advanced Educational Psychology (4)
- 3. EDCI 650A. Professional Teacher Development Seminar A (4)
- 4. EDCI 650B. Professional Teacher Development Seminar B (4)
- 5. EDCI 653. Supervision and Mentoring of Classroom Teachers (4)

- 6. Four units chosen from:
  - EDCI 620. School Curriculum (4)
  - EDCI 652. Service Learning in Public Schools (4)
  - EELB 697. Implementing Educational Change (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 543. Technology and Learning I (4)
- 3. ETEC 544. Design and Development of Instructional Materials I (4)
- 4. ETEC 546. Computer Based Technology in Education II (4)
- 5. ETEC 676. Advanced Topics in Instructional Technology (4)
- 6. Eight units chosen from:

COMM 242.	Writing for Print Media (4)
CSCI 125.	Programming in Visual Basic (4)
ETEC 644.	Design and Development of Instructional
	Materials II (4)
ETEC 676.	Advanced Topics in Instructional Technology (4)
MUS 519.	Audio Production (2)

## **Certificate in Environmental Education**

### Admission to the Program

- 1. Postbaccalaureate standing and regularly matriculated;
- 2. Valid teaching credential or teaching experience or related experience.

## **Certificate Requirements (18 units)**

- 1. EENV 635. Environmental Education in the Curriculum (4)
- 2. EENV 636. Teaching Environmental Issues (2)
- 3. EENV 642. Developing the Curriculum Through Outdoor Education (4)
- 4. EENV 643. Community Resources for Environmental Education (4)
- 5. Four units chosen from:

EENV 601.	Graduate Independent Study (2)
EENV 620.	Using Children's Literature to Teach
	Environmentally (4)
EENV 650.	Selected Topics in Environmental Education (2)
EENV 651.	Historical and Contemporary Readings in
	Environmental Education (2)
EENV 652.	Nature Study in Environmental Education (2)
EENV 653.	Plant Study in Environmental Education (2)
EENV 654.	Fundraising Fundamentals in Environmental
	Education (2)
EENV 655.	Social Studies in Environmental Education (2)
EENV 656.	Water Education in Environmental Education (2)

## 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:

- 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;
- 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;

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- 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 (20 units)**

- Foundations of Reading and Writing (4) 1. ERDG 620.
- This course is the prerequisite for all courses in the Note: program.
- 2. ERDG 622. Basic Materials and Approaches to Reading and Writing (4)
- Practicum in Reading and Writing (4) 3. ERDG 625.
- ERDG 640. Early Reading: Assessment and Intervention (4) 4. Images of Culture through Children's 5. ERDG 642.
- Literature (4)

## Certificate in Rehabilitation Counseling

### Certificate Requirements (28 units)

- 1. ECLG 531. Introduction to Counseling (4)
- Introduction to Rehabilitation Counseling (4) 2. EREH 615.
- 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)
  - Rehabilitation Counseling 615 must be completed with Note: a grade of "B" (3.0) or better to continue work in the certificate program.

## 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) School Business Management and Service EADM 514D.
  - 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 519. Legal Aspects of Classified Personnel Administration (4) Introduction to Counseling (4) ECLG 531. Psychology and Education of Exceptional ESPE 530. 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)
- School Business Management and Service EADM 514B. 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)
- School Business Management and Service EADM 514F. Functions: Employee Supervision (2)

## SPECIALIST CERTIFICATE PROGRAM

## 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 guarter units and a 3.0 ("B") in all course work taken in education;
- 4. ESPE 530 or its equivalent;
- 5. 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)

- Effective Communication with Professionals and 1. ESPE 635. Families (4)
- 2. ESPE 646. The Resource Specialist in Special Education (4) 3. Four units chosen from:
- Instructional Planning for Culturally and ESPE 660. Ethnically Diverse Students with Special Needs (4)
  - Practicum in Reading and Writing (4) ERDG 625.
- 4. ESPE 679E. Special Education Field Work: Resource Specialist (4)

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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 418) ECLG Educational Counseling (listed on Page 364) EDCA Correctional and Alternative Education EDCI Curriculum and Instruction EDSC Science Education **EELB** Elementary Education EENV Environmental Education EESL English as a Second Language ERDG Reading Education EREH Rehabilitation Counseling (listed on Page 473) 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. (1 to 5 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 guarter in which the course is to be taken. (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. (1 to 4 units)

## 603. Effective Communication in Education

Varying theoretical approaches with an emphasis on identifying one's personal/professional school of thought. Dynamics of interpersonal communication in educational structures: participation of individuals and small groups from a pluralistic perspective; writing for research purposes and professional speaking. Prerequisite: EDUC 306 or equivalent. (4 units)

## 605. Foundations of Education

History and theory of elementary, secondary and postsecondary education within the setting of American society: underlying assumptions, organizational structure, and educational change. Multiculturalism is studied in a balanced context relevant to the educational setting. Students apply what they learn to their school of thought in education, thereby connecting theory to the daily practice in the schools. Formerly EDUC 695. Prerequisite or corequisite: EDUC 603. (4 units)

## 607. Introduction to Educational Research

Introduction to the vocabulary, design, and sources of quantitative and qualitative methodologies, and program evaluation research in education. Ethical strategies for collecting, treating, and reporting data are emphasized; research reports and identifying, developing and critiquing trends in research communities. Formerly EDUC 663. Prerequisites: EDUC 603 and 605. (4 units)

## 610. Research Methodology in Education

Principles of research design, methods of data collection and analysis. (4 units)

## 611. Foundations of Integrative and Holistic **Models of Education**

Introduction to constructive post-modernist paradigms, systems theory, theories of meaning, constructivism and holistic theory. Students explore the importance of an engaging learning environment, a facilitative learning community and open-ended processes of problem solving. Prerequisite: consent of department. (4 units)

## 613. Integration and Meaning in Education

Investigation of instructional applications of the neuro-sciences, holistic learning and constructivist principles. Emphasizing group processes, collaborative action research, integrating technology, implementing cooperative groups, and developing cultural sensitivity and awareness of social justice issues. Prerequisite: consent of department. (4 units)

## 615. Exploring Arts, Creativity and Sign Systems

Application of the research on, and processes of art and creativity to learning. Exploration of the use of multiple modalities and somatic approaches to teaching, and semiotic understandings of disciplines. Introduction of intuitive development into the teaching/learning process. Prerequisite: consent of department. (4 units)

## 617. Exploring Integrative and Holistic **Curriculum Theory**

Exploration of the dominant perspectives on curriculum and introduction to constructive postmodernist curriculum theory as a foundation for integrative and holistic curriculum design. Development and field testing of substantive and engaging curriculum projects. Prerequisite: consent of department. (4 units)

## 619. Seminar in Holistic Education

Exploration of a variety of selected topics in holistic education through readings, class presentations, discussions, and reflective writing. Selection by student of an approved topic for in-depth exploration. Planning of a mini-conference in holistic education that includes presentations by each student, as well as outside speakers. Prerequisite: consent of department. (4 units)

## 621. Assessment and Research: Holistic Perspectives

Focus on the skills, understandings and methodologies of assessment and research design from a holistic perspective. Includes both quantitative and qualitative models, evaluation design and scholarly writing. Prerequisite: consent of department. (4 units)

## 640. Teaching English Learners in the General Education Classroom

Overview of programs, curricula, and resources for the education of English language learners. Strategies for English language development and methods for sustaining access to the core academic curriculum. Assessment techniques for initial placement and progress evaluation of learners. Psychological and sociocultural factors which affect first and second language development. Required for California SB 2042 clear credential. (4 units)

## 694. Master's Project in Science Education

Prerequisites: advancement to candidacy and consent of the graduate coordinator. (4 units)

## 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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 CORRECTIONAL AND ALTERNATIVE EDUCATION (EDCA)

## **Upper Division**

## 514. Foundations of Institutional Education: History and Literature

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 EDCA 614. Students may not receive credit for both.) Students in EDCA 614 must complete additional requirements. Formerly EDUC 574. (4 units)

## 516. Teaching the Institutional Student

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 EDCA 616. Students may not receive credit for both.) Students in EDCA 616 must complete additional requirements. Formerly EDUC 580. (4 units)

## 518. Social and Cultural Dynamics of Institutional Education

Interpersonal communication and professional identity issues as they relate to the meanings of everyday events in schools and schooling within confinement institutions. Emphases include postmodernism and approaches of communication and critical theories. Addresses issues such as culture shock, typical experiences of institutional educators, the struggle for recognition and respect, burnout and coping strategies to help avoid it, and retributive and restorative justice. (Also offered as EDCA 618. Students may not receive credit for both.) Students in EDCA 618 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 520. Educational Change in Institutional Settings

Reforming prisoners and prisons through democratic methods. Emphasizes student learning and personal/professional growth. (Also offered as EDCA 620. Students may not receive credit for both.) Students in EDCA 620 must complete additional requirements. Formerly EDUC 575. Prerequisite or corequisite: EDCA 514. (4 units)

## 528. Special Education in Correctional Institutions

Meeting the statutory/regulatory requirements of Federal- and State-funded education for disabled learners in confinement institutions. Special emphases include the identification of students with disabilities, definitions of a free and appropriate public education, staffing and records maintenance, confidentiality and due process, parental involvement, and the impact of current legislation. Historic and legal case histories are addressed, as well as current trends. (Also offered as EDCA 628. Students may not receive credit for both.) Students in EDCA 628 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 530. Alternative and Correctional Education

Similarities of alternative and correctional education students, and dissimilarities of organizational configuration and location in government. Introduction to the history and literature of alternative education, its role in selected urban and rural communities, and current trends. Includes the effects of educational reform, innovations consistent with the aspiration for multicultural education, and the teaching implications for the shift from a behavioral to a cognitive psychological base. (Also offered as EDCA 630. Students may not receive credit for both.) Students in EDCA 630 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 532. Career and Vocational Education in Correctional Institutions

History and specialized literature of vocational education in correctional institutions, linkages between academic/vocational instruction, and strategies for short- and long-term programs. Includes occupational projections, statutory and regulatory prohibitions for exfelons in the workforce, relationships with the State departments of Education and Labor, and job preparation for traditional and emergent employment opportunities. (Also offered as EDCA 632. Students may not receive credit for both.) Students in EDCA 632 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 534. Correctional Education Leadership

Principles of educational administration, educational supervision, and theories and processes of educational management, within correctional education. (Also offered as EDCA 634. Students may not receive credit for both.) Students in EDCA 634 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 536. Pedagogy and Andragogy in Correctional Institutions

Historic and current differences between the education of children (pedagogy) and of adults (andragogy). Emphases include developmental and transpersonal psychology; rationales and procedures associated with the education of children and adults; the issues of learner motivation, life tasks, and curricular concerns; and the similarities and differences of local school education, correctional and alternative education, and adult education. (Also offered as EDCA 636. Students may not receive credit for both.) Students in EDCA 636 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 538. Organization of Correctional and Alternative Education Service Delivery

Three current modes of institutional education delivery (decentralized, bureau, correctional school district), the origins of institutional education in moral and religious instruction, and alternative and continuation education as offered by court schools, municipalities,

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and counties. Includes patterns of organization that were designed to support schooling in settings characterized by resource inadequacy. (Also offered as EDCA 638. Students may not receive credit for both.) Students in EDCA 638 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 540. Literacy in Adult Confinement Institutions

Concepts of readiness to learn and developmental tasks, family literacy for incarcerates, prevalence of disabling conditions that impact learning, and the establishment of "third space" alphabetic and cultural literacy strategies. Critique of traditional and current curricular approaches and recent research findings. (Also offered as EDCA 640. Students may not receive credit for both.) Students in EDCA 640 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 542. Library Services for Alternative and Correctional Students

Historic alliances between the American Correctional Association and the American Library Association; Carnegie Fund and the Adult Education Association; and state, county, and agency library services. Emphases include traditional reading interests of juvenile and adult students in alternative and institutional school programs, readability assessments, various funding sources for library services, and the shift from print-based to digital/online delivery capabilities. (Also offered as EDCA 642. Students may not receive credit for both.) Students in EDCA 642 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 544. Pre- and Post-Release Transitions for Correctional Students

Rationale, program opportunities, and coping skills for the offender employment continuum. Directed to the different tasks confronting students "inside" and "outside" the institution with regard to family life, housing, drug abatement, transportation, community resources, basic domestic requirements and strategies to meet them, and finding and keeping regular employment. (Also offered as EDCA 644. Students may not receive credit for both). Students in EDCA 644 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 546. Comparative Correctional Education

Provision of institutional education in rich and poor nations. Comparison of institutional learning opportunities for students with disabilities in various nations, cultural education, the "normalization" of schooling, and professional networking for institutional educators in selected nations. Various United Nations charges for the development of institutional education, and the European Prison Rules. (Also offered as EDCA 646. Students may not receive credit for both). Students in EDCA 646 must complete additional requirements. Prerequisite or corequisite: EDCA 514. (4 units)

## 584. Special Topics in Correctional and Alternative Education

Lives and works of the great institutional educators and prison reformers, including the personalities, life conditions, and general programs of these contributors, their writings, social and professional networks, and alignment with successive correctional education paradigms. (Also offered as EDCA 684. Students may not receive credit for both.) Students in EDCA 684 must complete additional requirements. May be repeated for credit. Prerequisite or corequisite: EDCA 514. (4 units)

## Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 614. Foundations of Institutional Education: History and Literature

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 EDCA 514. Students may not receive credit for both.) Students in EDCA 614 must complete additional requirements. Formerly EDUC 674. (4 units)

## 616. Teaching the Institutional Student

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 EDCA 516. Students may not receive credit for both.) Students in EDCA 616 must complete additional requirements. Formerly EDUC 680. Prerequisite or corequisite: EDCA 614. (4 units)

## 618. Social and Cultural Dynamics of Institutional Education

Interpersonal communication and professional identity issues as they relate to the meanings of everyday events in schools and schooling within confinement institutions. Emphases include postmodernism and approaches of communication and critical theories. Addresses issues such as culture shock, typical experiences of institutional educators, the struggle for recognition and respect, burnout and coping strategies to help avoid it, and retributive and restorative justice. (Also offered as EDCA 518. Students may not receive credit for both.) Students in EDCA 618 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 620. Educational Change in Institutional Settings

Reforming prisoners and prisons through democratic methods. Emphasizes student learning and personal/professional growth. (Also offered as EDCA 520. Students may not receive credit for both.) Students in EDCA 620 must complete additional requirements. Formerly EDUC 675. Prerequisite or corequisite: EDCA 614. (4 units)

## 628. Special Education in Correctional Institutions

Meeting the statutory/regulatory requirements of Federal- and State-funded education for disabled learners in confinement institutions. Special emphases include the identification of students with disabilities, definitions of a free and appropriate public education, staffing and records maintenance, confidentiality and due process, parental involvement, and the impact of current legislation. Historic and legal case histories are addressed, as well as current trends. (Also offered as EDCA 528. Students may not receive credit for both.) Students in EDCA 628 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 630. Alternative and Correctional Education

Similarities of alternative and correctional education students, and dissimilarities of organizational configuration and location in government. Introduction to the history and literature of alternative education, its role in selected urban and rural communities, and current trends. Includes the effects of educational reform, innovations consistent with the aspiration for multicultural education, and the teaching implications for the shift from a behavioral to a cognitive psychological base. (Also offered as EDCA 530. Students may not receive credit for both.) Students in EDCA 630 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units) C S

## 632. Career and Vocational Education in Correctional Institutions

History and specialized literature of vocational education in correctional institutions, linkages between academic/vocational instruction, and strategies for short- and long-term programs. Includes occupational projections, statutory and regulatory prohibitions for exfelons in the workforce, relationships with the State departments of Education and Labor, and job preparation for traditional and emergent employment opportunities. (Also offered as EDCA 532. Students may not receive credit for both.) Students in EDCA 632 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 634. Correctional Education Leadership

Principles of educational administration, educational supervision, and theories and processes of educational management, within correctional education. (Also offered as EDCA 534. Students may not receive credit for both.) Students in EDCA 634 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 636. Pedagogy and Andragogy in Correctional Institutions

Historic and current differences between the education of children (pedagogy) and of adults (andragogy). Emphases include developmental and transpersonal psychology; rationales and procedures associated with the education of children and adults; the issues of learner motivation, life tasks, and curricular concerns; and the similarities and differences of local school education, correctional and alternative education, and adult education. (Also offered as EDCA 536. Students may not receive credit for both.) Students in EDCA 636 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 638. Organization of Correctional and Alternative Education Service Delivery

Three current modes of institutional education delivery (decentralized, bureau, correctional school district), the origins of institutional education in moral and religious instruction, and alternative and continuation education as offered by court schools, municipalities, and counties. Includes patterns of organization that were designed to support schooling in settings characterized by resource inadequacy. (Also offered as EDCA 538. Students may not receive credit for both.) Students in EDCA 638 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 640. Literacy in Adult Confinement Institutions

Concepts of readiness to learn and developmental tasks, family literacy for incarcerates, prevalence of disabling conditions that impact learning, and the establishment of "third space" alphabetic and cultural literacy strategies. Critique of traditional and current curricular approaches and recent research findings. (Also offered as EDCA 540. Students may not receive credit for both.) Students in EDCA 640 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 642. Library Services for Alternative and Correctional Students

Historic alliances between the American Correctional Association and the American Library Association; Carnegie Fund and the Adult Education Association; and state, county, and agency library services. Emphases include traditional reading interests of juvenile and adult students in alternative and institutional school programs, readability assessments, various funding sources for library services, and the shift from print-based to digital/online delivery capabilities. (Also offered as EDCA 542. Students may not receive credit for both.) Students in EDCA 642 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 644. Pre- and Post-Release Transitions for Correctional Students

Rationale, program opportunities, and coping skills for the offender employment continuum. Directed to the different tasks confronting students "inside" and "outside" the institution with regard to family life, housing, drug abatement, transportation, community resources, basic domestic requirements and strategies to meet them, and finding and keeping regular employment. (Also offered as EDCA 544. Students may not receive credit for both.) Students in EDCA 644 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 646. Comparative Correctional Education

Provision of institutional education in rich and poor nations. Comparison of institutional learning opportunities for students with disabilities in various nations, cultural education, the "normalization" of schooling, and professional networking for institutional educators in selected nations. Various United Nations charges for the development of institutional education, and the European Prison Rules. (Also offered as EDCA 546. Students may not receive credit for both.) Students in EDCA 646 must complete additional requirements. Prerequisite or corequisite: EDCA 614. (4 units)

## 684. Special Topics in Correctional and Alternative Education

Lives and works of the great institutional educators and prison reformers, including the personalities, life conditions, and general programs of these contributors, their writings, social and professional networks, and alignment with successive correctional education paradigms. (Also offered as EDCA 584. Students may not receive credit for both.) Students in EDCA 684 must complete additional requirements. May be repeated for credit. Prerequisite or corequisite: EDCA 614. (4 units)

## 999. Comprehensive Examination

An assessment of the student's ability to integrate the knowledge of Correctional and Alternative Education, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the Master's program and good academic standing. (0 units)

## COURSE OFFERINGS IN CURRICULUM AND INSTRUCTION (EDCI)

## **Upper Division**

## 540. Differentiated Curriculum and Instruction

Methods of designing curriculum and instruction to accommodate differences and diversity in learners, with an emphasis on utilizing differentiated instructional methodologies to meet the needs of gifted learners in the regular classroom. (4 units)

## 543. Creativity, Thinking and Problem Solving

Emphasis on characteristics, needs and appropriate education of creatively gifted individuals. Strategies for regular classroom applications of creative and critical thinking skills and infusion of problem solving across the curriculum. (4 units)

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## Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 620. School Curriculum

History, organization and operation of American K-12 schools; curriculum trends; recent practices in K-12 education. Formerly EELB 622, 640, 662; ESEC 662 and 699. (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, 624; ESEC 516 and 624. (4 units)

## 628. 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. Formerly EELB 644 and ESEC 644. (4 units)

## 638. 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. Formerly EELB 620 and ESEC 620. Prerequisite: an upper-division child development course. (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. Formerly EELB 650A and ESEC 650A. (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. Formerly EELB 650B and ESEC 650B. Prerequisite or corequisite: EDCI 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. Formerly EELB 652 and ESEC 652. (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. Formerly EELB 653 and ESEC 653. (4 units)

## 655. Early Adolescent Educational Psychology

Advanced seminar exploring recent theory and research on cognition, personality, and psycho-social development in early adolescents (grades 5-9) with emphasis on examining their interactions with the learning process. (4 units)

## 656. Curriculum for Early Adolescents

Curriculum development and alignment to the state standards for grades 5-9, including assessment and accountability methods and measures. Formerly ESEC 517 and 617. Prerequisites: EDCI 620 and 628. (4 units)

### 657. Instructional Strategies for Early Adolescent Education

Effective instructional methods and evaluation procedures that address the needs of early adolescents in grades 5-9. Formerly ESEC 521 and 621. Prerequisite: EDCI 624. (4 units)

## 663. Comprehensive Evaluation in Curriculum and Instruction

Review and preparation for the written comprehensive examination as well as the administration of the comprehensive examination. Formerly EELB 633 and ESEC 633. Graded credit/no credit. Prerequisites: advancement to candidacy and permission of program coordinator. (2 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. Formerly EELB 664, 698 and ESEC 664. Prerequisites: completion of all core and required program courses in the M.A. in Education, Curriculum and Instruction Option. (2 units)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (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 312, EESL 536 or ESEC 321; and EELB 313 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, socioe7

conomic 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)

## 519. Assessment Seminar I

Seminar focusing on knowledge, skills and dispositions required of first-year teachers. Emphasis on content specific and developmentally appropriate pedagogy, characteristics of English learners and learners with special needs, and demonstration of Teacher Performance Expectations 1, 3, 4, 6 and 7. Must be the last course taken in Phase I. Graded credit/no credit. Prerequisite: admission to the Multiple Subject Credential program. Prerequisite or corequisite: all courses in Phase I. (2 units)

## 529. Assessment Seminar II

Seminar focusing on knowledge, skills and dispositions required of first year teachers. Emphasis on connecting instructional planning to student characteristics for academic learning; designing instruction in physical education; and demonstration of Teacher Performance Expectations 1, 4, 6, 7, 8, 9, and 13. Graded credit/no credit. Corequisite: EELB 540A for student teachers or EELB 560B for intern teachers. Prerequisites or corequisites: EELB 422, 423, 425 for student teachers or EELB 532 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and all Phase I courses for student teachers or all courses in Phase I and II for intern teachers. (2 units)

## 532. Science/Health Curriculum and Pedagogy

Introductory course in curriculum and pedagogy in science and health. Emphasis on implementing state adopted science and health curriculum standards in an elementary classroom. Includes designing instruction to meet academic needs of all learners including English language learners and learners with special needs. Formerly EELB 443. Must be taken with EELB 540B or 560B for those not in supervision or consent of instructor. Corequisite: must be taken concurrently with EELB 533 or 534 and 539 for student teachers or with EELB 529 for intern teachers. Prerequisites: admission to the Multiple Subject Credential Program and completion of all Phase I and II courses. (4 units)

## 533. Social Studies and the Arts Curriculum and Pedagogy

Introductory course in curriculum and pedagogy in history/social studies and visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary classroom based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic needs of all learners including English language learners and learners with special needs. Formerly EELB 447. Corequisite: EELB 540B or 560C. May be taken concurrently with EELB 532 and 539 for student teachers or with EELB 539 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and all Phase I, II and II courses for intern teachers. (4 units)

## 534. Social Studies and the Arts (Primary Language) Curriculum and Pedagogy

Introductory course in curriculum and pedagogy in history/social studies and the visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary school based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic and language needs of all learners including Spanish-speaking learners and learners with special needs. Part of the course will be taught in Spanish. Formerly EELB 448. May be taken concurrently with EELB 532 and 539 for student teachers or with EELB 539 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and completion of all Phase I and II courses for student teachers or completion of all Phase I, II, and II courses for intern teachers. Corequisite: EELB 540B or 560C. (4 units)

## 539. Assessment Seminar III

Seminar focusing on knowledge, skills and dispositions required of first year teachers. Emphasis on assessment of learning goals; lesson design, implementation, and reflection after instruction; professional, legal and ethical obligations; and demonstration of Teacher Performance Expectations 1 through 13. Graded credit/no credit. Corequisite: EELB 540B for student teachers or EELB 560C for intern teachers. Prerequisites or corequisites: EELB 532 and 533 or 534 for student teachers or EELB 533 or 534 for intern teachers. Prerequisites: admission to the Multiple Subject Credential program and Phase I and II for student teachers or Phase I, II and III for intern teachers. (2 units)

## 540. Supervised Student Teaching in Multiple Subject

Teaching practicum in public schools in a multiple subject setting as defined by CCTC. Two quarters of student teaching are required. Graded credit/no credit. Formerly EELB 450.

- A. Must be taken concurrently with EELB 529. Should be taken concurrently with EELB 422, 423, and 425. Prerequisite: admission to supervision as a student teacher. (6 units)
- B. Must be taken concurrently with EELB 539. Should be taken concurrently with EELB 532 and 533 or 534. Prerequisites: EELB 422, 423, 425, 529 and 540A. (6 units)
- C. Prerequisite: consent of program director. (6 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. (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,

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and educational foundations of bilingual education, organizational models and instructional approaches. This course fulfills the credential requirement for EELB 313. 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 425. 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 540. Formerly EDUC 556. Graded credit/no credit. Prerequisite: admission to the Multiple Subject CLAD or BCLAD Credential Program (Intern Track). (4 units)

## 560. Supervised Intern Teaching in Multiple Subject

Full-time teaching in the public schools under the intern credential in a multiple subject setting as defined by CCTC. Three quarters of supervised intern teaching are required. Formerly EELB 455. Graded credit/no credit.

- A. Prerequisites: admission to the intern program, completion of EELB 312, 313, 315 or 316, and 317 and admission to supervision. Corequisites: EELB 422, 423, and 425. (8 units)
- B. Prerequisites: EELB 312, 313, 315 or 316, 317, 422 423, 425, and 560A. Corequisites: EELB 532 and 529. (8 units)

C. Prerequisites: EELB 533 or 534 and 539. (8 units)

## Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 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 312, EESL 536, or ESEC 321; EELB 313 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)

## 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.) Graduate students in this course must complete additional assignments. (4 units)

## 612. Social and Cultural Contexts for School Learning

Examination of the relationship between the sociology of knowledge, social context, cultural norms and school practices with particular attention to language minority student populations. (4 units)

## 616. Advanced Reading/Language Arts (Primary Language) Curriculum and Pedagogy

Research-based materials, methods, and strategies for teaching reading/language arts, including explicit systematic, meaningful instruction in basic reading skills and comprehension strategies to meet the needs of English learners, proficient English learners, and learners with special needs, including learners with varied reading levels and language backgrounds. Emphasis on emergent reading and writing behaviors, balanced literacy components, and literature. Part of the course will be taught in Spanish. Requires a minimum six-hour field component including participation with beginning readers in an approved Multiple Subject (BCLAD) 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 316. Formerly EELB 646. (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 Biliteracy

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)

## 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. 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. Prerequisites: MATH 301 and four additional quarter units in mathematics. (4 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. Prerequisite: consent of instructor. (4 units)

## 639. Advanced Pedagogical Foundations for English Language Learners

Comprehensive study of various theories, principles, and instructional practices designed to develop the linguistic, social and academic proficiency of English language learners. Key issues and concepts to be implemented in dual language classrooms include: linguistic development, first and second language acquisition, and the relationship between first language literacy and second language development. Relevant state and federal laws pertaining to the education of English learners, the impact of these mandates on student placement and school site instructional programs, the importance of students' families, cultural backgrounds and experiences and how these relate to successful school experiences for English learners are examined. Fulfills the credential requirement for EELB 313. Formerly EELB 654. Prerequisites: admission into the BCLAD Credential and M.A. in Education: Language, Literacy and Culture (Primary Language) Option. (4 units)

## 643. Advanced Social Studies and the Arts (Primary Language) Curriculum and Pedagogy

Comprehensive course in curriculum and pedagogy in history/ social sciences and visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary school based on an in-depth understanding of concepts, skills, and strate-

gies in history/social studies and the visual/performing arts. Includes designing instruction to meet academic and language needs of all learners including Spanish-speaking learners and learners with special needs. Use of bilingual/crosscultural teaching strategies and curriculum development, methods of integrating English and Spanish in the instructional program and evaluation of language skills are presented. Part of the course will be taught in Spanish. Requires a minimum six-hour field component including participation in teaching at an approved dual language setting if not concurrently enrolled in intern teaching. Fulfills credential requirement for EELB 534. Formerly EELB 648. (4 units)

## 649. Advanced Literacy and Second Language Acquisition for the Intermediate Reader and Beyond

Advanced study of literacy development for the intermediate reader and beyond for all learners including English learners, proficient English learners, and learners with special needs. Emphasis on developing higher level academic skills for complex reading, writing, speaking, and thinking; approaches to English language development (ELD); planning for both language and content instruction, literacy in the content areas; development of strategies to build comprehension and fluency; assessment techniques; 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. Formerly EELB 655. Prerequisite: EELB 616. (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)

## 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 312, or EESL 536, or ESEC 321; EELB 333 and 511 or ESEC 313 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 ASECOND 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)

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## 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)

## 545. Writing Methods in TESOL

Survey of contemporary approaches to writing, contrasting styles and formats appropriate for creative writing and personal essays with writing intended for purposes of textual analysis and social or cultural expression. Various computer technologies will be used to assist in idea generation, text processing, editing, and desktop publishing. Class will include peer-collaborative tutoring techniques. (4 units)

## Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 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. (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)

## 670. 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 and EESL 607. (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)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 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. (1 to 4 units)

## Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 601. Graduate Independent Study

Graduate level independent study to be conducted under direct supervision of a faculty member. No more than four units may be applied toward the master's degree. Prerequisites: EENV 635, consent of advisor, and approval of a written proposal by the graduate program coordinator. (2 or 4 units)

## 620. Using Children's Literature to Teach Environmentally

Indepth study of children's literature as it applies to both classroom and outdoor settings. Emphasis on evaluating literature for environmental concepts and utilizing strategies for interdisciplinary instruction. Formerly EENV 670E. (4 units)

## 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)

## 636. Teaching Current Environmental Issues

Examines local relevant environmental issues and teaching strategies that can assist in understanding and analyzing these issues. Formerly EENV 670A. Prerequisite or corequisite: EENV 635. (2 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)

## 650. Selected Topics in Environmental Education

Techniques, topics and skills in environmental education, to be developed by the instructor. Formerly EENV 670K. Prerequisite: EENV 635 or consent of instructor. (2 units)

## 651. Historical and Contemporary Readings in Environmental Education

Seminar based on selected historical and contemporary readings in environmental education. Formerly EENV 670B. Prerequisite: EENV 635 or consent of instructor. (2 units)

Strategies for designing and implementing nature study in educational settings. Formerly EENV 670L. Prerequisite: EENV 635 or consent of instructor. (2 units)

## 653. Plant Study in Environmental Education

Strategies for designing and implementing plant study in educational settings. Formerly EENV 670M. Prerequisite: EENV 635 or consent of instructor. (2 units)

## 654. Fundraising Fundamentals in Environmental Education

Techniques and methods for resource acquisition for environmental education programs. Prerequisite: EENV 635 or consent of instructor. (2 units)

## 655. Social Studies in Environmental Education

Strategies for design and implementation of social studies applications in environmental education. Formerly EENV 670F. Prerequisite: EENV 635 or consent of instructor. (2 units)

## 656. Water Education in Environmental Education

Strategies for design and implementation of water study in educational settings. Prerequisite: EENV 635 or consent of instructor. (2 units)

## 664. Project/Thesis Design in Environmental Education

Processes involved in the design and development of proposals with emphasis on literature review applicable to master's project/thesis. Prerequisites: EENV 635 and consent of advisor. (2 units)

## 679. Fieldwork: Environmental Education

Field experiences applying academic skills including demonstration of leadership roles in curriculum planning, presentations and profession development related to environmental education. May be repeated for a total of eight units. Prerequisites: EENV 635 and consent of program advisor. (4 units)

## 697. Master's Degree Project

Independent graduate study conducted under the guidance of a program advisor and resulting in a written project. Prerequisites: advancement to candidacy and approval of a project plan by the student's advisory committee. (4 units)

## 699. Thesis

Independent graduate research conducted under the guidance of a program advisor and resulting in a written thesis. Prerequisites: advancement to candidacy and approval of thesis plan by student's advisory committee. (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. (1 to 4 units)

## Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 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. (Also offered as ENG 535. Students may not receive credit for both.) 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)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

(EDSC)

## COURSE OFFERINGS IN SCIENCE EDUCATION

### Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 623. The Science Curriculum

Examination of the goals and curriculum of school science including key science education reports, a historical perspective of science education, science standards, and exemplars in elementary, middle school and high school science. Formerly EDUC 623. (4 units)

## 634. Research in Science Education Seminar

Focus on research developments in science education including the areas of teaching and learning, assessment, equity and literacy, attitudes, and the nature of science. Formerly EDUC 634. (2 units)

## 643. Assessment in the Science Classroom

Assessment techniques in science education including the development of assessment tools to obtain reliable and useful information about student achievement in science. (4 units)

## 644. Inquiry Teaching and Learning in the Science Classroom

Introduction to inquiry teaching and learning in science. Focuses on the design of questions and concepts to support scientific investigation in the classroom and the use of appropriate classroom teaching and learning strategies, materials, and assessment to guide scientific investigation in the K-12 classroom. Formerly EDUC 644. (4 units)

## 647. Advanced Topics in Teaching Science

Discussion of the efficacy of various models of science teaching, including how students learn science, facilitating learning in the science classroom, and technology and resources. (4 units)

## 699. Master's Degree Project

Development and completion of master's thesis/project. Prerequisite: advancement to candidacy. (4 units)

## COURSE OFFERINGS IN SECONDARY EDUCATION (ESEC)

## Upper Division

## 505. Curriculum and Instruction in the Content Areas I

Examines the content to be made accessible to all students from varied populations. Student evaluation, assessment and practice that provides equality and access to content area. Prerequisites: admission and good standing in the program or consent of program director.

- A. Art (2 units)
- E. English (2 units)
- F. Foreign Languages (2 units)
- H. Music (2 units)
- L. Life and Physical Sciences (2 units)
- M. Mathematics (2 units)
- O. Other (2 units)
- P. Physical Education (2 units)
- S. Social Sciences (2 units)

## 508. Curriculum and Instruction in the Content Areas II

Review and reflect on application of methodologies and strategies through microteaching. Prerequisite: admission and good standing in the program or consent of program director.

- A. Art (2 units)
- E. English (2 units)
- F. Foreign Languages (2 units)
- H. Music (2 units)
- L. Life and Physical Sciences (2 units)
- M. Mathematics (2 units)
- O. Other (2 units)
- P. Physical Education (2 units)
- S. Social Sciences (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. (Also offered as EELB 511. Students may not receive credit for both.) Prerequisites: EELB 312, EESL 536 or ESEC 321; and EELB 313 or ESEC 333. (4 units)

## 512. Principles of Pedagogy

Teacher performance assessment of 1 and 2 which consists of Teacher Performance Expectations 1, 3, 4, 6, 7, 8, 9 and 12. Prerequisites: admission and good standing in the program or consent of program director. (2 units)

## 514. Assessment and Reflection of Instruction

Teacher performance assessment of 3 and 4 which consists of Teacher Performance Expectations 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 13. Prerequisites: admission and good standing in the program or consent of program director. (2 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. (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)

## 550. Student Teaching

Full-time teaching in a single subject setting at a public school. Graded credit/no credit.

- A. Experience. Student teaching candidates are required to conduct observations and complete fieldwork assignments from the various program courses. In addition, student teaching candidates are required to tutor a designated English Language Learner and a student with special needs. (100 hours). Prerequisite: must be enrolled in a single subject program or consent of program director. (2 units)
- B. Prerequisite: successful completion of ESEC 550A. (4 units)
- C. Prerequisite: successful completion of ESEC 550B. (8 units)

## 555. Internship Seminar I

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Graded credit/no credit. Prerequisite: ESEC 554. (2 units)

## 556. Internship Seminar II

Seminar for secondary interns, focusing on knowledge, skills and attitudes required of a first year teacher. Graded credit/no credit. 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)

## 570. Intern Supervision

Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 422.

- A. Prerequisite: enrollment in Single Subject Program. (6 units)
- B. Prerequisite: satisfactory completion of ESEC 570A and consent of program coordinator. (6 units)
- C. Prerequisite: satisfactory completion of ESEC 570B. (6 units)
- D. Prerequisite: satisfactory completion of ESEC 570C. (6 units)
- E. Prerequisite: satisfactory completion of ESEC 570D. (6 units)
- F. Prerequisite: satisfactory completion of ESEC 570E. (6 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. (Also offered as EELB 605. Students may not receive credit for both.) Prerequisites: EELB 312, EESL 536, or ESEC 321; EELB 333 or ESEC 333; and EELB 511 or ESEC 511. (2 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)

## 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)

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## 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. Prerequisites: (for M.A. in Education, Teaching English as a Second Language Option) consent of advisor; (for CLAD certificate program only) EELB 312, or EESL 536, or ESEC 321; EELB 313 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. (1 to 4 units)

## 545. Computer Technology and Assistive Devices

Review of, and training in, computer technology and assistive devices that provide solutions to problems in educational and employment environments faced by persons with disabilities. Two hours lecture and two hours laboratory. Graded A,B,C/no credit. Prerequisite: consent of instructor. (3 units)

## 570. Teaching Students with Disabilities in the General Education Classroom

Advanced study of special populations in the mainstream classroom for general educators. Teachers will display knowledge, skills and strategies for teaching students with disabilities in the general education classroom. Demonstrates the ability to create a positive inclusive climate for individualized assessment and instruction for students with special needs and/or abilities utilizing grade appropriate State adopted standards, collaborative professional relationships, and an understanding of local and federal acts regarding special education. Observations in educational settings are required. Course may be offered on-line. (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 Special Education Office for additional information regarding application.

A. Mild/Moderate Disabilities. Prerequisites: (for elementary) EELB 301 or PSYC 320; EELB 317; 441; and 445 or 446; (for secondary) ESEC 332; EELB 423; 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. 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. 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. Prerequisites: Level I Preliminary Education Specialist Credential and ESPE 633. (4 units)

## 650. Development and Assessment of Young Children with Disabilities

Knowledge of atypical development, developmental risk factors (including those for infants with low-incidence disabilities), the rights and roles of the family, screening and assessment measures, and service delivery models. Prerequisites: ESPE 529, 530, 637, or consent of instructor. (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. Prerequisites: ESPE 529, 530, 624 (not applicable to students with Early Childhood Special Education Emphasis) 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. 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. 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. Pre-requisites: 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. Prerequisite: 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. Pre-requisites: ESPE 529, 530, 624, 637, 655 and 656. (4 units)

# CSUSB 2006-2007

## 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. Curriculum and Methods in Special Education: Early Childhood Special Education

Strategies and techniques for teaching early childhood special education in a variety of settings. Special consideration of family in the process of educating children birth through six years of age with disabilities or who are at risk of developing disabilities. Prerequisites: ESPE 529, 530, 637 and 691C. (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)
- F. Early Childhood Special Education I. Prerequisites: (for Level I Credential students) ESPE 529, 530, 637, 650, 651, 660 and 665; (for certificate students) ESPE 650, 651, 652, 665, HD 280 and PSYC 270. (4 units)
- G. Early Childhood Special Education II. Prerequisites: (Preliminary Level I Education Specialist Credential: Early Childhood Emphasis) ESPE 633, 635, 652 and 685. (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)

C. Supervised full-time teaching under the Early Childhood Special Education Intern Credential. Must be repeated for a total of 24 units. Graded credit/no credit. Prerequisite: admission to the Early Childhood Special Education 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)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

## COURSE OFFERINGS IN INSTRUCTIONAL TECHNOLOGY (ETEC)

## **Upper Division**

## 500. Foundations in Instructional Technology

Introduction to instructional technology and its foundations. Includes electronic media, operating systems, networks and multimedia in educational and corporate environments. This is a prerequisite for all other ETEC courses; an IT orientation with program faculty/advisors will be part of the first week of the course. (4 units)

## 537. Computer Based Technology in Education I

Operations, terminology and components of computing systems. Emphasis on the appropriate use of computer-based technology for information collection, analysis and management in the instructional setting. 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 preliminary 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. Graded credit/no credit. Prerequisite: graduate standing or consent of instructor. (1 to 4 units)

## 543. Technology and Learning I

Explores connections between technology and the teaching and learning process through current research in instructional technology and learning theories. Prerequisite: ETEC 500. (4 units)

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## 544. Design and Development of Instructional Materials I

Examination of various models of instructional design and procedures used in the production of instructional materials. Prerequisite: ETEC 500. (4 units)

## 546. Computer Based Technology in Education II

Application of computer-based technology for information collection, analysis and management to support teaching, learning and learning environments. Meets technology competencies for the professional credential. Three hours lecture and two hours laboratory. (4 units)

## Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 614. Needs Assessment: Issues and Techniques

Principles and techniques in identifying needs and discrepancies between status quo and ideal status from the perspectives of organizational and instructional development. Formerly ETEC 612. Prerequisites: ETEC 500, 543, and 544 or consent of instructor. (4 units)

## 617. Instructional Development and Change Process

Theories and methods for evaluating each stage of instructional product development processes and change theory relate to adoption of instructional products. Formerly ETEC 611. Prerequisites: ETEC 500, 544, and 614 or consent of instructor. (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 for Educational Leaders

Assisting educational leaders in developing the knowledge and skills needed to apply computer technology to educational settings. Pre-requisite: ETEC 500 or consent of instructor. (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)

## 643. Technology and Learning II

Explores connections between technology and the teaching and learning process through a study of research design, data collection and analysis. Emphasis on conducting research in instructional technology and learning theories for M.A. research project. Prerequisites: EDUC 607, ETEC 500 and 543. (4 units)

## 644. Design and Development of Instructional Materials II

Advanced application of instructional design models and procedures to produce instructional materials for the M.A. project. Prerequisites: ETEC 500 and 544. (4 units)

## 674. Telecommunications in Education

Various telecommunication technologies in education and instructional design strategies for distance courses. Discussions and handson experience are used to apply those systems. Prerequisites: ETEC 500 and 544 or consent of instructor. (4 units)

## 676. Advanced Topics in Instructional Technology

Intensive study of advanced topics such as multimedia, interactive communication technology, networking and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly ETEC 675. (2 to 8 units)

## 692. Practicum in Educational Technology

Application of educational technology theories in field settings. Directed experiences in educational or corporate settings. Requires a written agreement with a sponsoring agency and departmental approval of that agreement. Graded credit/no credit. Prerequisite: ETEC 500 or consent of instructor. (4 units)

## 699. Master's Degree Project

Assisting Instructional Technology Master's students in completing their M.A. project. (4 units)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 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. Pre-requisite: 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. (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 develop-ment 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)

## 640. Topics in Education

Study of selected areas of advanced education topics to be determined the the instructor. May be repeated for credit with consent of instructor as topics change. Prerequisites: graduate standing and consent of instructor. (2 units)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

Additional information about all EVOC courses is posted on the program web site at: HTTP://VE.CSUSB.EDU

## EDUCATIONAL ADMINISTRATION

## Master of Arts in Educational Administration

## **Masters Program Office**

Faculty Office Building, Room 124

(909) 537-7404 http://www.csusb.edu/coe/

FACULTY: Phyllis Hensley, Jim Hill, Angela Louque, 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 full-time designated subject credential (with B.A.);
- 3. A cumulative grade point average of 3.0 ("B") in all courses taken in education;
- One year of full-time teaching credentialed school-related, experience in counseling or nursing, substitute teaching does not apply;
- 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;
- Completed, with a grade point average of 3.0 ("B"), 16 quarter hours of course work, at least 12 of which must have been at this university 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;
- 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;

- Successful completion of the Comprehensive Evaluation in Educational Administration (EADM 633) or Master's Thesis in Educational Administration (EADM 699);
- 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 329.

### **Degree Requirements (45 units)**

Prerequisite or Corequisite courses (6 units)

- 1. EADM 601. Educational Leadership and Ethics (4)
- 2. EADM 603. Application of Leadership, Ethics and Organizational Theory (2)

Core Courses (35 units)

1.	EADM 602	Research Methods in Educational
••	2,12111-002	Administration (4)
2.	EADM 607.	Culture, Politics and Communication in a
۷.	EADIM 007.	Diverse Society (4)
3.	EADM 610.	Supervision and Evaluation of Teachers (4)
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4.	EADM 617.	Cultural and Political Experiences (2)
5.	EADM 619.	Policy, Governance and Legal Aspects of
		Education (4)
6.	EADM 620.	Practicum in Educational Administration (3)
7.	EADM 622.	Curriculum, Instruction and Assessment (4)
8.	EADM 624.	Organizational, Personnel and Fiscal
		Management (4)
9.	EADM 627.	Portfolio Evaluation (2)
10. Four units chosen from:		osen from:
	EADM 621A.	Fieldwork in Educational Administration (2)
	EADM 621B.	Fieldwork in Educational Administration (2)
	EADM 630.	Internship Fieldwork in Educational

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	Administration (4)

Culminating Experience (4 units)

1. Four units chosen from: EADM 633. Comprehensive Evaluation in Educational Administration (4)

EADM 699. Master's Thesis in Educational Administration (4)

## 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 equivalent. (4 units)

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## 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 nonmerit 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. (1 to 4 units)

## Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 601. Educational Leadership and Ethics

Introduction to school administration including leadership, vision, and ethics. Explores the theory and practice of school administration and restructuring. The leadership focus includes shared decision-making, problem solving, change management, planning, conflict management, evaluation, and school culture and climate. Must be taken during the first quarter of the program concurrently with EADM 603 Prerequisite: admission to Educational Administration program or consent of program coordinator. (4 units)

## 602. Research Methods in Educational Administration

Introduction to qualitative, quantitative and action research for school administrators using APA guidelines. Includes a proposal for an action research project. Prerequisites or corequisites: EADM 601, 603, and consent of program coordinator. (4 units)

## 603. Application of Leadership, Ethics and Organizational Theory

Introduction to the assessment and fieldwork component of school administration including leadership, vision, and ethics. Initial assessment of candidate competence on the California Standards of Quality and Effectiveness for Preliminary Administrative Services Credentials. Candidates apply concepts of leadership, ethics and organization developed in EADM 601. Must be taken during the first quarter of the program concurrently with EADM 601. Prerequisite: admission to Educational Administration program or consent of program coordinator. (2 units)

## 607. Culture, Politics and Communication in a Diverse Society

Impact of educational administrators and collaboration with families and community members, responding to diverse community interests and needs, and mobilizing community resources. Emphasis on understanding, responding to, and influencing the larger political, social, economic, legal and cultural context. Prerequisites or corequisites: EADM 601and 603 or consent of program coordinator. (4 units)

## 610. Supervision and Evaluation of Teachers

Supervision of classroom instruction including behavior management, using a variety of theories and models including developmental and clinical supervision. Planning and implementing staff development programs, procedures of documenting classroom teacher performance, and techniques of improving achievement of all students. Prerequisites or corequisites: EADM 601 and 603, or consent of program coordinator. (4 units)

## 617. Cultural and Political Experiences

Cultural and political experiences in diverse communities. Additional hours entailed. Prerequisites or corequisites: EADM 601, 603 and 607 or consent of program coordinator. (2 units)

## 619. Policy, Governance and 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 603. (4 units)

## 620. Practicum in Educational Administration

Practicum for the Preliminary Administrative Services Credential is designed to fulfill the experiences required in the student's induction plan. Student must receive approval of the Practicum Application Form and documentation of completion of an entry level administrative experience selected in consultation with instructor and district mentor. Ninety hours of experience is required. Prerequisites or corequisites: EADM 601 and admission to Preliminary Administrative Services Credential or consent of program coordinator. (3 units)

## 621. Fieldwork in Educational Administration

Administrative fieldwork at the elementary and the secondary school level, coordinated with the district. Consists of a minimum of 60 hours of administrative fieldwork experience at the elementary and repeated at the secondary level for 2 units and 60 hours at each level for a total of 4 units. Formerly EADM 628.

- A. Prerequisites: EADM 601, 603, 610, 620, advancement to candi-
- dacy and permission of the program coordinator. (2 units)
- B. Prerequisite: EADM 601, 617, 621A and 622. (2 units)

## 622. Curriculum, Instruction and Assessment

Examines the California and national accountability systems and their impact on curriculum and instruction for both the school district and school site. Includes issues of norm and criteria referenced testing, the role of California state content standards in defining curriculum, instruction and assessment, and how diversity issues relate to accountability, curriculum, and instruction. Practice in use of technology for assessment and instructional decision making. Prerequisites or corequisites: EADM 601 and 603 or consent of program coordinator. (4 units)

## 624. Organizational, Personnel and Fiscal Management

Understanding of school organization and structure in the management of human and fiscal resources. Prerequisites or corequisites: EADM 601 and 603. (4 units)

## 420 / Educational Administration

## 627. Portfolio Evaluation

The university faculty, field supervisors, student and knowledgeable school district personnel will assist the student in the preparation of a summative review and evaluation of candidate's growth in the program utilizing multiple assessment measures tied to the coursework and field experiences. 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. Formerly EADM 636. Prerequisites or corequisites: EADM 601, 603, 607, 610, 617, 619, 620, 621A, 621B, and 624; advancement to candidacy and permission of program coordinator. (2 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 or corequisites: EADM 601, 603, 607, 610, 617, 620, 621A and 621B (or 630), 622, 624 and 627; advancement to candidacy and permission of program coordinator. (4 units)

### 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 sitebased 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)

## 681. Vision and Learning

Development, articulation, implementation, and stewardship of a vision of learning that is shared and supported by the school community for current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. (3 units)

### 682. Culture for Student Learning and Professional Growth

Developing and sustaining a school culture and instructional program conducive to student learning and staff professional growth to nurture current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. Prerequisite: EADM 681. (3 units)

### 683. Organization and Resource Management

Management of the organization, operations and resources for a safe efficient and effective learning environment for current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. (3 units)

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## 684. Collaboration with Diverse Families and Communities

Collaboration with diverse families and community members, responding to community interests and needs, and mobilizing community resources for current administrators. Prerequisite or corequisite: EADM 683. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. (3 units)

## 685. Leadership Capacity and Ethics

Development of professional leadership capacity in decision-making, problem solving, change management, planning, conflict management, evaluation, and ethics for current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. (3 units)

## 686. Factors of School Context

Understanding, responding to, and influencing the political, social, economic, legal and cultural context of schools for current administrators. Prerequisite: admission to the Administrative Services Professional Credential program or consent of program coordinator. Prerequisite or corequisite: EADM 685. (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

## Department of English

- University Hall, Room 334
- (909) 537-5824 http://cal.csusb.edu/Depts/english/

FACULTY: Jennifer Andersen, Yvonne Atkinson, Mary Boland, James Brown, David Carlson, Rong Chen (Chair), Milton Clark, Kimberly Costino, Cynthia Cotter, Juan Delgado, Margaret Doane, Bertram (Pete) Fairchild (Emeritus), Ellen Gil-Gomez, Bruce Golden, (Emeritus), Gabrielle Halko, Carol Haviland, Holly Henry, Sunny Hyon, Bret Johnston, Sandra Kamusikiri, Alexandria LaFaye, Suzanne Lane, E. Clark Mayo (Emeritus), Susan Meisenhelder, Maureen Newlin, E. Philip Page, Renee Pigeon (Graduate Coordinator), Luz Elena Ramirez, Jacqueline Rhodes, Treadwell (Ted) Ruml II, DeShea Rushing, Peter Schroeder (Emeritus), Wendy Smith, Caroline Vickers, 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 2006	Aug. 1, 2006	Aug. 15, 2006
Winter 2007	Nov. 1, 2006	Dec. 1, 2006
Spring 2007	Feb. 1, 2007	Mar. 1, 2007
Fall 2007	Aug. 1, 2007	Aug. 15, 2007

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:

- A grade point average of 3.0 ("B") in all undergraduate upper-division courses;
- 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 (computer-based score of 233) on the Test of English as a Foreign Language (TOEFL);
- 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;
- 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;
- 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 312. Theories of Language Acquisition and Learning
    - ENG 420. English Grammar I
    - ENG 422. History of the English Language
  - 3. One of the following:
    - ENG 301A. Analysis of Poetry
    - ENG 301B. Analysis and Writing of Poetry
    - ENG 302A. Analysis of Drama
    - ENG 302B. Analysis and Writing of Drama
    - ENG 303A. Analysis of Prose Fiction
    - ENG 303B. Analysis and Writing of Prose Fiction
    - ENG 304A. Analysis of Nonfiction Prose
    - ENG 304B. Analysis and Writing of Nonfiction Prose

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- 4. One upper-division course in British literature.
- 5. One upper-division course in American literature.
- 6. One upper-division course in ethnic literature, literature of diversity, or literature by women.
- B. For the Concentration in Teaching English as a Second Language (TESL):
  - 1. ENG 311. The English Language
  - 2. ENG 312. Theories of Language Acquisition and Learning
  - 3. ENG 420. English Grammar I

## Advancement to Candidacy

To be advanced to candidacy, the student must have:

- 1. Achieved classified status;
- 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;
- 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 World 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 ENG 312;
- 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 or comprehensive examination;
- 7. The program must be completed within a sever-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. Students who have taken any required or elective course that expires because it exceeds this seven-year limitation will be required to retake the course or its equivalent as designated by the Graduate Coordinator, regardless of the grade originally earned. Petitions to waive this requirement will not be approved.
  - **Note:** Students interested in pursuing dual concentrations should contact the Graduate Coordinator about dual concentration requirements.

## **Degree Requirements (48 units)**

## **English Composition Concentration (48 units)**

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

- 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. ENG 613. Seminar in Rhetoric and Composition (4) Four units chosen from: 5. ENG 615. Discourse Analysis: Theories and Applications (4) ENG 616. Contrastive Rhetoric (4) ENG 617. Linguistic Pragmatics (4) ENG 618. Stylistics (4) 6. ENG 650. Critical Approaches to Literature (4) Twelve units chosen from: 7. ENG 530. Issues in Tutoring Writing (4) Approaches to Imaginative Writing (4) ENG 621. TESL Methods and Materials for Reading and ENG 626. Writing (4) ENG 657. Sites of Praxis (4) Computers and Writing: Literacy and ENG 658. Technology (4)
  - ENG 660. Issues in Teaching College Composition (4)
- 8. ENG 662. Internship in Composition (2)
- 9. ENG 695. Thesis Proposal/Comprehensive Examination Preparation (2)
- 10. Electives (4-8 units)

Students who are completing the Thesis Option under Culminating Experience below must take four units of electives; students completing the Comprehensive Examination option must take eight units of electives. Electives must be approved in advance by the Graduate Coordinator.

- 11. Culminating Experience
  - Choose one of the following two options:
  - Thesis Option (4 units)
  - 1. ENG 699A. Thesis (2)
  - 2. ENG 699B. Thesis and Research (2)
  - Comprehensive Examination Option (0 units)
  - 1. ENG 999. Comprehensive Examination (0)

### English Literature Concentration (48 units)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

- 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: Theories and
	Applications (4)

- ENG 616. Contrastive Rhetoric (4)
- ENG 617. Linguistic Pragmatics (4)
- ENG 618. Stylistics (4)
- 5. ENG 621. Approaches to Imaginative Writing (4)
- 6. ENG 650. Critical Approaches to Literature (4)
- 7. Twelve 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 Nonfiction Prose (4)
  - ENG 651. Seminar in a Literary Topic (4)
- 8. ENG 663. Internship in Literature (2)

## 424 / English

10. Electives (4-8 units)

Students who are completing the Thesis Option under Culminating Experience below must take four units of electives; students completing the Comprehensive Examination option must take eight units off electives. Electives must be approved in advance by the Graduate Coordinator.

11. Culminating Experience

Choose one of the following two options:

## Thesis Option (4 units)

- 1. ENG 699A. Thesis (2)
- 2. ENG 699B. Thesis and Research (2)
- **Comprehensive Examination Option (0 units)**
- 1. ENG 999. Comprehensive Examination (0)

## Teaching English as a Second Language (TESL)

## Concentration (48 units)

If TESL concentration students have completed ENG 523 and 524 with grades of "C" or better in their B.A. degree, they must take eight units of graduate-level English electives, approved in advance by the Graduate Coordinator, in lieu of ENG 523 and 524 in the M.A. program.

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

- 1. ENG 523. English Grammar II (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)
- 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 530. Issues in Tutoring Writing (4)
  - ENG 657. Sites of Praxis (4)
  - ENG 658. Computers and Writing: Literacy and Technology (4)
- ENG 660. Issues in Teaching College Composition (4)
- 10. ENG 664. Internship in ESL Teaching (2)
- Thesis Proposal/Comprehensive Examination 11. ENG 695. Preparation (2)
- 12. Electives (4-8 units)

Students who are completing the Thesis Option under Culminating Experience below must take four units of electives; students completing the Comprehensive Examination option must take eight units of electives. Electives must be approved in advance by the Graduate Coordinator.

13. Culminating Experience

Choose one of the following two options:

- Thesis Option (4 units)
- 1. ENG 699A. Thesis (2)
- 2. ENG 699B. Thesis and Research (2)
- Comprehensive Examination Option (0 units)
- 1. ENG 999. Comprehensive Examination (0)

## **Culminating Experience**

Students select either the thesis option or the comprehensive examination Option. Successful completion of either option satisfies the graduation writing requirement.

## **Thesis Option**

Students electing the thesis option are required to write a thesis in either English composition and rhetoric, literature, linguistics, applied linguistics or teaching English as a second language. Students develop an acceptable thesis project and prepare a thesis proposal in accordance with program guidelines, consisting of a 1000-word proposal and an annotated bibliography. Those pursuing a dual concentration must devise a thesis project relevant to both concentrations. To develop a thesis proposal and obtain approval of it, students carry out the following steps:

- 1. Complete ENG 695 with a grade of CR;
- 2. Gain the support of a committee of two or three English Department faculty members (the thesis reading committee);
- Submit the Thesis Proposal and annotated bibliography to the full 3. graduate committee (8-10 members) and carry out any revisions requested to achieve its approval.

Students then write the thesis, a culminating independent project that demonstrates mastery of both the subject matter and the written discourse of the discipline. Completed thesis manuscripts must be formatted in accordance with the guidelines established by the Graduate Studies Office and approved by the thesis reading committee and either the graduate coordinator, associate graduate coordinator, or department chair, and the Dean of Graduate Studies.

Note: To undertake the thesis option, a student must have a minimum GPA of 3.7 overall in degree-applicable courses or the permission of the graduate coordinator.

## **Comprehensive Examination Option**

Students electing the comprehensive examination option must take the examination no earlier than in the last guarter of program coursework, and after successful completion (with a grade of CR) of ENG 695.

Students must declare their intent to take the examination at least one quarter in advance and register for ENG 999. The comprehensive examination is offered twice yearly, in fall and spring quarters.

The reading committees for the comprehensive examination in each concentration will be established annually by the graduate program, and will consist of two English Department faculty members and the graduate coordinator or associate coordinator responsible for each concentration.

The comprehensive examination addresses both the program's core curriculum and the student's concentration. The examination will be graded pass/fail. No student will be permitted to take the comprehensive examination more than twice. Candidates who re-take the examination must do so within one calendar year.

### **COURSE OFFERINGS IN** ENGLISH (ENG)

## Upper Division

## 507. Advanced Creative Writing: Poetry

Advanced-level workshop in poetry writing; discussion of student writing and exemplary texts by established poets. Formerly a topic under ENG 513. Prerequisite: ENG 417 or consent of instructor. (4 units)

## 508. Advanced Creative Writing: Fiction

Advanced-level workshop in fiction writing; discussion of student writing and exemplary texts by established fiction writers. Formerly a topic under ENG 513. Prerequisite: ENG 418 or consent of instructor. (4 units)

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## 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 in Specialized Genres

Advanced 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 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 Grammar II

Advanced study and analysis of grammatical structures of English. 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)

## 535. Images of Culture Through Children's Literature

Becoming acquainted with the children's literature of various cultures and organizing this literature for curricular choices. (Also offered as ERDG 642. Student may not receive credit for both.) Graduate students are required to do coursework appropriate for graduate students. Prerequisite: ERDG 620 for students enrolled in the College of Education; consent of instructor for other students. (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 proofread 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. (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. (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)

## 613. Seminar in Rhetoric and Composition

Advanced study in a specific area of rhetoric and composition theory. May be repeated for credit as topics change. Prerequisite: ENG 612. (4 units)

## 615. Discourse Analysis: Theories and Applications

Study and application of various linguistic approaches to analyzing spoken and written discourse. Prerequisites: ENG 311 and 420; or consent of instructor. (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. Prerequisites: ENG 311 and one from ENG 312, 420, 422; 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: Prerequisites: ENG 311 and one from ENG 312, 420, 422; 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 one from ENG 312, 420, 422; 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. Prerequisites: ENG 311, 312 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, 312, and 420; 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 Topic

Advanced study in particular topics in literature. 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)

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## 660. Issues in Teaching College Composition

Study of the theories, principles, and methods of teaching first-year composition. Prerequisite: ENG 612. (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. Prerequisites: ENG 612; two courses from ENG 530, 621, 626, 657, 658, 660; and approval of the graduate coordinator. (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: ENG 612 and 650; one course from ENG 601, 602, 603, 604, 651; and approval of the graduate coordinator. (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. Prerequisites: ENG 619 and 626; one course from ENG 523, 615, 616, 617; and approval of the graduate coordinator. (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 Proposal/Comprehensive Examination Preparation

Preparation of thesis proposal and annotated bibliography, or preparation for comprehensive examination. Graded credit/no credit. Prerequisites: ENG 609, completion of 24 units in the program, and consent of the graduate coordinator. (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. (2 to 5 units)

## 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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 and rhetoric, literature, linguistics, applied linguistics, or teaching English as a second language, culminating in a written thesis.

- A. Thesis. Prerequisites: graduate committee approval of the thesis proposal, advancement to candidacy, approval of the of graduate coordinator, completion of all other required courses for the M.A. in English Composition, and good academic standing. (2 units)
- B. Thesis and Research. Prerequisites: graduate committee approval of the thesis proposal, advancement to candidacy, approval of the graduate coordinator, completion of all other required courses for the M.A. in English Composition, and good academic standing. (2 units)

## 999. Comprehensive Examination

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. Students may not enroll in ENG 999 before their last quarter of coursework in the M.A. in English Composition. Graded credit/no credit. Prerequisites: ENG 695; advancement to candidacy, approval of the graduate coordinator, and good academic standing. (0 units)

## **ENVIRONMENTAL SCIENCES**

## Master of Science

Environmental Sciences

## **Department of Chemistry and Biochemistry**

Chemical Science Building, Room C5-204 (909) 537-5318 http://chem.csusb.edu/

## **Department of Geological Sciences**

Biological Science Building, Room 122A

(909) 537-5336 http://geology.csusb.edu/

## MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE

## Requirements (45-49 units)

The Master of Science in Environmental Sciences is designed to provide strong preparation in applied science as well as social, political, and economic aspects needed for critical decision-making for environmental issues. The program includes a core curriculum including an internship, and participation in a basic or applied research project related to the internship. To accommodate working professionals, internships may be completed at their place of business if deemed appropriate by their faculty advisor. The program is designed so that it can potentially be completed in two years and every effort will be made to offer courses at times convenient for working professionals. The required internship program will be offered during the summer between the first and second years and the supervised graduate study in the following quarter. Additional internship courses are included as electives, as a number of local companies have expressed an interest in having interns for extended periods.

Two options are available for the M.S. in Environmental Sciences. These are (1) a final comprehensive examination, or (2) an extended project (student takes at least one extra graduate research course working on the project). At the end of the project a professional-level paper describing the project and its results will be prepared and presented to the student's advisory committee. If appropriate, students will be encouraged to publish their work in a peer-reviewed journal.

## Admission to the Program:

Specific requirements for admission to classified graduate status are:

- 1. A baccalaureate degree from an accredited college or university;
- Completion of an undergraduate major in geology, chemistry or associated fields (e.g., biology or environmental studies with at least 30 quarter units of upper-division course work);
- One year each of laboratory courses in: 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 2.8 in all courses used for credit in the major;
- 6. Completion of the graduate entrance writing requirement;
- 7. Submission of scores from the Graduate Record Examination (GRE) to the environmental sciences graduate committee;
- Submission to the environmental sciences graduate committee of a one-page, typewritten statement of the student's preparation for graduate study, goals in the graduate 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 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 guarter admission

are May 1, October 1, and January 15, respectively.

## Advancement to Candidacy

To be advanced to candidacy, the student must have:

- 1. Achieved classified status;
- Been accepted by a major advisor from the environmental science program;
- 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 environmental sciences graduate committee, and with a minimum grade point average of 3.0 ("B");
- 4. Gained a recommendation for advancement to candidacy from the graduate committee;
- 5. Submitted a formal program of graduate course work prepared in consultation with and approved by the graduate committee;
- 6. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

## **Requirements for Graduation**

- 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 approved by the program;
- Advancement to candidacy for the degree and approval of the specific program of courses;
- A grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the program and grades of "C" (2.0) or better in each course in the program;
- Completion and presentation of an extended project; or satisfactory completion of the comprehensive examination;
- The graduation writing requirement is met upon successful completion of the project or the written portion of the comprehensive examination;
- 6. Any additional general requirements not cited above and listed on Page 329.

## **Department Graduate Committee and Major Advisor**

The Environmental Sciences Graduate Committee consists of the graduate program coordinator and two or more faculty members. This committee will determine whether students are adequately prepared for graduate study in environmental sciences, and has general supervision over the work of students progressing toward the master's degree.

Each new graduate student should consult with the graduate program coordinator for advice in selection of the appropriate graduate program. All students 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 project research proposal based on the student's interests, abilities and preparation. The major advisor will direct the project research and supervise the internship. The program of courses and the project topic, as well as any subsequent modification of these, are subject to approval by the environmental sciences graduate committee and the Dean of Graduate Studies.

Students enrolled in the graduate program wishing to take courses off campus and include them in the degree program must petition the environmental sciences graduate committee for approval, otherwise the course may not be accepted as part of the program. Extension courses at the1000- to 9999-level are not applicable to the graduate program. 300-level courses, other than those specified as possible electives in the program will be accepted only by written approval of the committee. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree. Repeat of courses or the comprehensive examination require approval of the environmental sciences graduate committee and will be granted only for serious and compelling reasons.

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## Degree Requirements (45-49 units)

Core Courses (37-41 units)

- 1. GEOL 610. Environmental Geosciences (5)
- 2. CHEM 610. Advanced Environmental Chemistry (5)
- Two units chosen from: GEOL 690. Graduate Seminar in Environmental Sciences (2)
  - CHEM 690. Graduate Seminar in Environmental Sciences (2)
- PA 620. Regulatory Structure, Policies and Process in Water Law (4)
- 5. GEOG 470. Hydrology and Water Resources (4)
- 6. HSCI 503. Public Health Statistics (4)
- 7. Four units chosen from:
  - INFO 309. Information Management (4) INFO 474. Advanced Database Management and

4. Advanced Database Manag Information Assurance(4)

- A minimum of 9 units, including one internship and one graduate study, chosen from:
- CHEM 575. Internship in Chemistry (4-5)
  - GEOL 575. Internship in Geology (4-5)
  - CHEM 695. Supervised Graduate Study in Chemistry (4-5)
  - GEOL 695. Supervised Graduate Study in Geology (4-5)
- 10. Choose one of the following courses (0-4 units):

## Independent Graduate Study:

- CHEM 699. Independent Graduate Study (4)
- GEOL 699. Independent Graduate Study (4)
- Comprehensive Examination:
- CHEM 999. Comprehensive Examination (0)
- GEOL 999. Comprehensive Examination (0)

Elective Courses (8 units)

1. A minimum of 8 units; at least one course must be graduate level. **Undergraduate Electives:** BIOL 450. Ecology (5) BIOL 455. Marine Biology and Ecology (5) GEOG 306. Remote Sensing of Environment (4) Advanced Geographic Information Systems (5) GEOG 308. Conservation and Natural Resources (4) GEOG 350. GEOG 402. Geographic Information Systems Applications (5) GEOL 375. Groundwater Hydrology (4) GEOL 376. Field Methods in Hydrology (4) HSCI 380. Toxicology (4) MGMT 322. Law and Ethics of Environmental Management (4) MGMT 324. International Environmental Management (4) MGMT 326. Natural Resource Management (4) MGMT 428. Environmental Policy and Management (4) Work Group Management (4) MGMT 459. Graduate Electives: Advanced Analytical Chemistry (6) CHEM 545. Advanced Internship (4) CHEM 697. GEOG 650. Environmental Issues of Land Management (4) GEOL 510. Scientific Issues in Surface and Groundwater Management (4) Digital Mapping and GIS for Scientists (4) GEOL 620. Environmental Geochemistry (4) GEOL 630. GEOL 635. Low-temperature Geochemistry (4) GEOL 697. Advanced Internship (4) HSCI 557. Hazardous Materials Control (4) Management of Water Quality (4) HSCI 558. Air Quality Management (4) HSCI 651. Information Management Systems (4) INFO 609. PA 621. Water Resource Agency Management (4)

PA 622. Politics and Public Relations in Water Resource Management (4)

## GEOGRAPHY

## Department of Geography and Environmental Studies

Social and Behavioral Sciences Building, Room 327J

(909) 537-5519 http://geog.csusb.edu/

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. Materials fee required. (4 units)

## 610. Military Geography for National Security

Examination of the terrain, climate and other physical geography factors that affect national security. (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)

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## GEOLOGY

## **Department of Geological Sciences**

Biological Science Building, Room 122A (909) 537-5336 http://geology.csusb.edu/

The following courses are offered in support of various graduate degree programs offered by the university.

## COURSE OFFERINGS IN

GEOLOGY

**Upper Division** 

## 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)

(GEOL)

## 575. Internship in Geology

(FWS)

Work experience off and on campus in geologically related work. Supervised by a member of Geological Sciences faculty. May be repeated for credit with department consent. A total of four units may be applied towards graduation. Graded credit/no credit. Prerequisite: consent of instructor. (2 to 4 units)

## Graduate/Postbaccalaureate

May not be taken by undergraduate students.

## 610. Environmental Geosciences

Application of earth science principles to environmental issues. Topics include applications of fundamentals of physical geology to geohazards, engineering geology, surface and groundwater, erosion, and environmental geochemistry. Atmospheric and climate topics will include global change issues. Labs will feature hands-on-experience with earth materials, maps, analytical techniques and environmental problem solving. Four hours lecture and three hours laboratory. Prerequisites: GEOG 103, or GEOL 101 or equivalent (5 units)

## 620. Digital Mapping and GIS for Scientists

Emphasis on real-time field data collection in direct digital form, and manipulation of these data using GIS. Scientific application to environmental problems will be stressed. Two hours lecture and six hours laboratory. Prerequisite: GEOG 202. Recommended: GEOL 301. (4 units)

## 630. Environmental Geochemistry

Contemporary problems in environmental geochemistry, such as fate and transport of inorganic and organic pollutants in the terrestrial environment covering both equilibrium and kinetic descriptions of the processes. Prerequisite: GEOL 610. (4 units)

## 635. Low-temperature Geochemistry

Low-temperature geochemistry including sedimentary systems, weathering, and aqueous geochemistry. Includes discussion of thermodynamics of aqueous reactions, elemental speciation, activity diagrams, the carbonate system, water-rock reactions and stable isotopes. Two hours lecture and six hours laboratory. Prerequisite: GEOL 610. (4 units)

**690.** Graduate Seminar in Environmental Sciences Selected topics and reviews of current investigations in the fields of environmental geology. (2 units)

## 695. Supervised Graduate Study in Geology

Original individual research in environmental geology; 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. Prerequisites: classified standing in master's program and consent of advisor. (4 to 5 units)

## 697. Advanced Internship

Supervised work or study in private or public organizations. May be repeated for credit with consent of Environmental Science Graduate Committee. Prerequisites: CHEM 575 or GEOL 575 and consent of advisor. (4 units)

## 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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. Independent Graduate Study

Independent graduate research conducted under guidance of the major advisor. Prerequisite: CHEM 695 or GEOL 695. (4 units)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and good academic standing. (0 units)

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## **HEALTH SCIENCES**

## Master of Science in Health Services Administration

## Master of Arts

Health Education Option in Education

(Degree requirements can be found on Page 378.)

## Department of Health Science and Human Ecology

Jack Brown Hall, Room 263

## (909) 537-5339 http://health.csusb.edu/

**FACULTY:** Dorothy Chen-Maynard, Kim Clark, Daniel Fahey (Graduate Coordinator), Marsha Greer, Joe Hughes, Robert LaChausse, Joseph Lovett, Lal Mian, Cindy Paxton (Chair)

## MASTER OF SCIENCE IN HEALTH SERVICES ADMINISTRATION

### Requirements (61-69 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 440.

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:

- 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;
- 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;

- 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;
- 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");
- Candidacy will be granted upon completion of HSCI 501 and 502 plus 12 units from the basic core of courses;
- 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:

- A minimum of 61 to 69 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;
- Advancement to candidacy for the degree and approval of the specific program study;
- 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:
  - 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 (61-69 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.

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Health Sciences / 433

Basic Core (21 units)				
1. 2.	HSCI 601. HSCI 602.	Administration of Health Care Programs (4) Management, Organization and Planning		
3.	HSCI 603.	in Health Services (4) Health Economics and Financial Systems (4)		
4.	Four units cho	sen from:		
	ACCT 605.	Health Care Accounting and Financial Analysis (4)		
	HSCI 605.	Health Care Accounting and Financial Analysis (4)		
5.	HSCI 608.	Health Research Methods (5)		
Lea	adership 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		
	1001000.	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)		
Ela	ativos (Quaita)	Seminar (4)		
	ctives (8 units)			
1.	Eight units cho			
	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 (2-4)		
	HSCI 670.	Directed Readings (1-4)		
	INFO 609.	Information Management Systems (4)		
	MGMT 601.	Organization Theory and Behavior (4)		
	MGMT 641.	Managing Human Resources (4)		
	MKTG 560.	Services Marketing (4)		
	MKTG 605.	Marketing Management (4)		
	MKTG 610.	Consumer and Organizational Buying Behavior (4)		
	MKTG 696.	Marketing Strategy (4)		
	NURS 597.	Issues and Trends in Health Care (4)		
	SCM 607.	Supply Chain Management (4)		
	SCM 611.	Logistics and Supply Chain Management Strategies (4)		
	SCM 614.	Advanced Quality Management (4)		
	SCM 650.	Information Decision Systems (4)		
	SCM 660.	Supply Management (4)		
	PA 462.	Public Personnel Administration (4)		
		$C_{\text{obs}}$		

Governmental Budgeting (4)

Organizations (4)

Organizations (4)

or other electives upon approval of major advisor.

Sector (4)

Management of Private Nonprofit

Public Budgeting and Finance (4)

Accounting for Government and Not-for-Profit

Human Resource Management in the Public

PA 463.

PA 514.

PA 568.

PA 662.

PA 663.

Culminating Experience/Application of Learning (8 units)

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**

1.

#### 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. Prerequisite: graduate status or consent of instructor. (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. Prerequisite: graduate status or consent of instructor. (4 units)

### 503. Public Health Statistics

Statistical methods commonly used in the collection and analysis of public health data. Includes descriptive statistics, basic concepts of probability, statistical inference, analysis of variance, correlation, regression, non parametric statistics, and introduction to the use of statistical software. Emphasis on understanding and applying statistical concepts to the interpretations of health research data. Prerequisites: college algebra and admission to the department's graduate program or consent of instructor. (4 units)

### 504. Environmental and Occupational Health

Physical, chemical and biological factors of the environment and their impacts on human health and wellbeing. Includes air quality, water hygiene, food sanitation, radiation, solid and hazardous wastes, vector control and work place hazards with emphasis on contemporary issues. Prerequisite: graduate standing in the department's graduate program or consent of instructor. (4 units)

#### 505. School Nurse Credential Program Orientation

Overview of the School Nurse Credential Program including coursework, expectations, timelines and basic skills needed to provide screening for vision, scoliosis, and dental needs. Graded credit/no credit. Prerequisite: admission to the School Nurse Credential Program. (2 units)

### 506. Epidemiology

Examination of epidemiologic concepts in relation to specific public health issues. Disease investigation techniques, causal factors, case histories, and related biostatistics are examined, including implications for public health policy and intervention. Prerequisites: HSCI 501, 502 and 503 or consent of instructor. (4 units)

#### 434 / Health Sciences

## 510. Hospital Administration

Organization and administration of hospital facilities including planning and evaluation of services. Role of the hospital as part of the community. Formerly HSCI 427. Prerequisites: HSCI 271, and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

### 511. Organization and Management of Long-Term Care Facilities

Examination of the professional administrative role and managerial concepts in long-term facilities, including nursing homes. Formerly HSCI 455. Prerequisites: HSCI 271, and MGMT 302 or PSYC 302, or consent of instructor. (4 units)

## 512. Clinical Operations of Ambulatory Care/Group Practices

The management of physician practices, medical groups, and ambulatory care organizations such as imaging center, outpatient surgery centers and other outpatient services. Students will develop an understanding of issues and acquire skills in the management of nonacute care organizations owned or substantially controlled by physicians. Previously offered as a topic under HSCI 452. Prerequisite: HSCI 120 or consent of instructor. (4 units)

## 513. Managed Care Systems

Principles and process of utilization management, risk contracting, capitation, provider contracting, contract negotiations, division of financial responsibility and Health Maintenance Organization (HMO) relationships, including quality outcomes measurements, patient satisfaction, and the specialist referral process. Prerequisite: HSCI 120 or consent of instructor. (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)

### 530. 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. Formerly HSCI 430. Prerequisite: HSCI 352. (4 units)

## 531. Bioterrorism

History, identification, properties and mode of transmission of agents of bioterrorism, including preventive, control and treatment measures against bioterrorism. Prerequisites: college level biology and chemistry or consent of instructor. (4 units)

### 540. School Health Programs and Practices

Advanced examination of the teachers' role within a coordinated school health program. Stat and national guidelines are also reviewed. Prerequisite: must be a "2042" or Ryan credential candidate, 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)

## 557. 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. Formerly HSCI 357. Prerequisites: college-level biology and chemistry courses. (4 units)

### 558. Management of Water Quality

Survey of water quality parameters and pollution control techniques. Includes in-depth discussion on current topics in water legislation, water pollution and its impact on public health, flood impacts, water conservation options and drought management. Prerequisite: prior or concurrent enrollment in HSCI 506 or consent of instructor. (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)

## 561. Maternal and Child Nutrition

Significance and role of nutrition during pregnancy, lactation, and childhood including undernutrition. (2 units)

### 562. Issues in International Nutrition

Incidence of malnutrition in developing and industrialized countries. Focus on the multiple causes of malnutrition around the world including food production and distribution, politics and economic policies. (2 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)

## 591. Health Education Curriculum and Instruction

Overview of health education curriculum development and implementation, including the parent-community advisory process, curriculum selection and alignment with state standards, course design, student grading and assignments, units of study and lesson plans, lesson presentations, and course evaluation methods. Prerequisite: completion of HSCI 433 or consent of instructor. (4 units)

## 592. Health Teaching Practicum

Classroom-based practice in teaching methods and materials used in secondary health education, including planning, class management and student evaluation. One hour lecture and six hours laboratory. (4 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. (1 to 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)

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## 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 690 or EDUC 663; or consent of instructor. (4 units)

### 607. Cross Cultural Aspects of Health

Examination of the roles of cultures and their relationships to health status, health practices, and health-seeking behaviors. Emphasis on the influence of culture on research, statistics, and interventions. Prerequisites: classified graduate status in one of the department's graduate programs, prior or concurrent enrollment in HSCI 503 or consent of instructor. (4 units)

### 608. Health Research Methods

Multidisciplinary focus on general research methods including the concept of scientific methodology, the logic of research design and applicability of theoretical and experimental approaches in the health professions. Prerequisite: classified graduate status, HSCI 503, prior or concurrent enrollment in HSCI 506 or consent of instructor. (5 units)

## 613. Principles of Health Behavior

Application of psychological and behavioral sciences to health promotion and disease prevention strategies. Examination of factors that predispose, enable and reinforce health-related behaviors, including the significance of social support, provider-client interactions, and the media. Prerequisites: HSCI 607, and classified status or consent of instructor. (4 units)

## 614. Health Education Practice

Philosophical, ethical and historical roots of contemporary public health education and health promotion. Emphasis on frameworks and strategies used in practice. Prerequisites: classified status, HSCI 607, 613 or consent of instructor. (4 units)

### 615. Health Education Program Planning and Evaluation

Theory and practice of community health programs including strategic planning, community analysis and needs assessment, setting goals and objectives, implementation strategies, program evaluation and grant writing. Prerequisites: classified status, prior or concurrent enrollment in HSCI 607, 613 and 614 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 690. (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 271 and 600. (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: classified status, prior or concurrent enrollment in HSCI 615 or consent of instructor. (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 and 600. (4 units)

## 651. Air Quality Management

Advanced concepts of air pollution and analysis of relationship among sources, meteorology, health effects, monitoring sampling and emission control systems. Laws and regulations with interpretation and application to the industry. Prerequisites: classified graduate status and HSCI 506 or consent of instructor. (4 units)

## 652. Industrial Hygiene

Principles and practices applied in industrial hygiene with regulations applicable to recognition, evaluation and control of work place hazards including risk assessment, advanced techniques and instrumentation used in the solution of work place hazards. Prerequisites: classified graduate status and HSCI 506 or consent of instructor. (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)

## 654. Applied Vector Control

Principles and practices used in vector control programs, including advances in chemical and non-chemical control methods, environmental dynamics and impacts of pesticides on public health and environmental quality, pesticide resistance in target species, pesticide legislation and program funding. Prerequisites: classified graduate status and HSCI 506 or consent of instructor. (4 units)

# 659. Research Methods in Environmental Health Science

Research methods and application to contemporary environmental health problems. Data analysis and development of skills for determining appropriate analytical techniques and procedures. Prerequisite: HSCI 503 or consent of instructor. (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. (2 to 4 units)

### 661. General Nutrition

Application of the principles of physiology to the study of nutrition emphasizing nutrient functions, nutrient requirements and impact of diet on health disease, including both macronutrients and micronutrients. Prerequisites: classified graduate standing and prior or concurrent enrollment in HSCI 506 or consent of instructor. (4 units)

### 663. Principles of Public Health Nutrition

Major nutrition-related diseases and their prevention, including effects of public policy on health status. Prerequisites: classified graduate standing in one of the department's graduate programs, HSCI 661, or consent of instructor. (4 units)

### 664. Nutrition in Health and Disease

Descriptive epidemiology of several major chronic diseases, especially type-2 diabetes, cardiovascular disease, cancer, and AIDS. Focus on understanding the role, strengths, and limitations of nutritional epidemiology in researching the etiology of these diseases, and of public health nutrition as one avenue of response. Prerequisites: classified graduate standing in one of the department's graduate programs, prior or concurrent enrollment in HSCI 506 and 661, or consent of instructor. (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)

## 667. Nutritional Assessment

Assessment of nutritional status of both individuals and populations for purposes of etiologic research and disease prevention and control. Use of biochemical, anthropometric, and questionnaire methods for assessment of diet, body composition, physical activity, and biochemical characteristics. Emphasis on methods appropriate for measurement of any exposure in epidemiological or population studies. Prerequisites: classified standing in the department's graduate program, prior or concurrent enrollment in HSCI 506 and 661 or consent of instructor. (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. (1 to 4 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, 601, 602, 603, 604, 605, 606, 690, and concurrent enrollment in HSCI 645 and 675. (4 units)

## 689. Field Experience

Theory and skills in a health-related organization, community or agency setting under the direction of a public health professional, including self-analysis of strengths, competencies and professional development plans. Number of required units is determined in consultation with advisor. Prerequisites: advancement to candidacy and concurrent enrollment in HSCI 695. (2 to 8 units)

# 690. Graduate Research Methodology in Health Science

Graduate-level research methods and application to contemporary health problems in health services administration. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. Four hours seminar and three hours data analysis laboratory. Materials fee required. Formerly HSCI 598. Prerequisite: HSCI 315 or consent of instructor. (5 units)

### 695. Capstone Seminar

Synthesis and integration of knowledge acquired in coursework. Special emphasis on the multidisciplinary analysis of complex public health issues. Prerequisites: advancement to candidacy, completion of a minimum of 16 units in the student's advisement area, and concurrent enrollment in HSCI 696, 699, or 999. (4 units)

# 696. Project

- A. Proposal Development and Research. Independent graduate research or project conceptualization conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Prerequisites: completion of at least 36 units of approved course work toward graduation and advancement to candidacy. (4 units)
- B. Research/Project Development, Writing and Defense/Presentation. Independent graduate research or project development conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Includes formal defense or professional presentation. Prerequisites: successful completion of HSCI 696A. (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 601, 602, 603, 605, and 690, 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. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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 601, 602, 603, 605, 690 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)

# 999. Comprehensive Examination

Assessment of student's ability to integrate the knowledge of the discipline, show critical and independent thinking, and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, completion of a minimum of 16 units in the student's area of concentration, approval of department, concurrent enrollment in HSCI 695, and in good academic standing. (0 units)

# HISTORY

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# **Department of History**

Social and Behavioral Sciences Building, Room 327F (909) 537-5524 http://csbs.csusb.edu/history/

The following courses are offered in support of graduate degree programs offered at this university.

## COURSE OFFERINGS IN HISTORY

### 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)

(HIST)

## 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)

## 690. Advanced Topics in History

In depth study of an advanced topic in history. May be repeated for credit as topics change. (4 units)

# HUMAN DEVELOPMENT

# **Department of Psychology**

Social and Behavioral Sciences Building, Room 425 (909) 537-5570 http://psychology.csusb.edu/

The following courses are offered in support of graduate degree programs offered at this university.

# COURSE OFFERINGS IN HUMAN DEVELOPMENT (HD)

### 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)

## 695. Graduate Project

Preparation and implementation of a project based on a thorough review of theory and empirical research under the guidance of an advisor in the Department of Psychology. Includes completion of a written document containing the elements described above and a formal defense. Prerequisites: PSYC 611, 640, advancement to candidacy and consent of instructor. (5 units)

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# HUMANITIES

# College of Arts and Letters

University Hall, Room 237 or 339 (909) 537-5800 or (909) 537-5869 http://cal.csusb.edu/

The following courses are offered in support of graduate degree programs offered at this university.

COURSE OFFERINGS IN		
HUMANITIES	(HUM)	

## **Upper Division**

## 595. Independent Study in Humanities

Advanced study in the Humanities. May be repeated for credit. Prerequisites: a minimum overall grade point average of 3.0, consent of instructor, including 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. (1 to 4 units)

### 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. (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. (1 to 5 units)

# **INTERDISCIPLINARY STUDIES**

# Master of Arts in Interdisciplinary Studies

# Office of the Dean of Graduate Studies

Administration Building, Room 127

(909) 537-5058 http://gradstudies.csusb.edu

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 279 and 303.

# 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.

 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;

- Prepare a written proposal eight pages in length to include the following:
  - Identify by title the proposed interdisciplinary program of study (i.e., Interdisciplinary Studies Master's Degree in [50space limit]);
  - b. describe the purpose or focus of this specially designed degree program;
  - c. Explain why this course of study cannot be pursued within one department with electives from other departments;
  - d. Explain how this program relates to the student's educational and career goals;
  - e. Indicate student's background, both academic and experiential, for undertaking this study;
  - f. 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:
  - 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, fulltime faculty members at CSUSB;
  - 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.

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#### Interdisciplinary Studies / 441

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 eight units of proposed course work can be completed prior to submission of the proposal to the University Curriculum Committee;

- 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;
- 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:

- 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;
- 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;
- 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**

- The program of study should be interdisciplinary, including course work from two or more departments represented at the university;
- 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;
- 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;
- 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;
- 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;
- Any additional general requirements not cited above and listed on Page 329.

# 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, (909) 537-5678.

# Degree Requirements (48 units)

Core courses, taken as a cohort:

- 1. EDUC 603. Effective Communication in Education (4)
- 2. EDUC 605. Foundations of Education (4)
- 3. EDUC 607. Introduction to Educational Research (4)
- 4. EDCI 620. School Curriculum (4)
- 5. ERDG 633. Multi-modal Meaning Systems in Literacy (4)
- 6. ETEC 675D. Advanced Topics in Instructional Technology (4)
- 7. Four units chosen from:
  - IS 696D. Graduate Project (4)
  - IS 699D. Graduate Thesis (4)
  - **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.

Electives

1. Twenty units of individually selected coursework will be taken outside of education, as scheduled and approved by the program coordinator. 0

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# 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, contact Dr. J. S. (Vic) Johar in the Department of Marketing, College of Business and Public Administration, (909) 537-5763. This program will not be offered during the 2005-2006 academic year.

## Admission to the Program

- Completion of an undergraduate degree from a recognized university or institution;
- 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;
- 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;
- 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, (909) 537-5041/5045.

## Advancement to Candidacy

- 1. Students must have achieved classified standing;
- 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;
- 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;
- 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 329.

# **Requirements for Graduation**

- 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;
- The program of study must not include more than eight units of independent study course work, excluding the units allowed for the project;
- 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;
- 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 491. Ethical Aspects of Communication (4)
- COMM 609. Digital Culture (4)
   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 150. Web Publishing (4)
- 6. MKTG 540. E-Marketing (4)
- 7. MKTG 610. Consumer and Organizational Buying Behavior (4)
- 8. 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 420. Advertising (4)
- MKTG 446. Advertising Campaign (4)
- MKTG 450. Logistics (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 INTERDISCIPLINARY 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. (1 to 9 units)

# 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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. (1 to 9 units)

# KINESIOLOGY

# Department of Kinesiology

Health and Physical Education Building, Room 120 (909) 537-5349 http://kine.csusb.edu/

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)

#### 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

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# MATHEMATICS

# Master of Arts in Mathematics

# Master of Arts in Teaching Mathematics

# **Department of Mathematics**

Jack Brown Hall, Room 370 (909) 537-5361

FACULTY: Susan Addington, Joyce Ahlgren, Joseph Chavez, Nadia Dyakevich, Hajrudin Fejzic, Davida Fischman (MAT Coordinator), Christopher Freiling, Gary Griffing, J. Terry Hallett (Graduate Coordinator), Ilseop Han, Zahid Hasan, Yuichiro Kakihara, Min-Lin Lo, 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)

# 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. It emphasizes mathematical content courses and is appropriate not only for college teaching but also for students considering further graduate work.

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:

 Successful completion with a grade of at least "B" (3.0) of course work in calculus, abstract algebra, analysis, geometry, number theory and probability deemed equivalent to the core of the mathematics major 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 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;
- 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");
- Begin assembling their portfolio by contributing at least one exemplary problem solution or one proof as described in item 6 of "Requirements for Graduation;"
- 4. Submit a formal program of graduate work prepared in consultation with and approved by the departmental graduate committee;
- 5. 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;
- 3. No less than 34 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;
- 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. Submit a portfolio containing the following items:
  - a. a copy of the approved Advancement to Candidacy form,
  - b. three examples of exemplary solutions to problems in the student's classes,
  - c. four examples of proofs that the student has written in classes in the program, explaining the significance to the material studied,
  - **Note:** Each of the seven examples above should be from a different course. Name and number must identify the course.
  - d. an announcement of the seminar at which the student presents the project,
  - e. an abstract of the thesis,
  - f. a completed student questionnaire;
- 7. Any additional general requirements not cited above and listed on Page 329.

# **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)

 Twenty-eight units of electives selected from the following and including at least 16 units at the 600-level:. Approved 400-level courses in mathematics not in the core of the major. Approved 500- or 600-level courses in mathematics not used to satisfy any other requirement.

Graduate Project (4 units)

- 1. MATH 696. Master's Degree Project I (3)
- 2. MATH 697. Master's Degree Project II (1)

# MASTER OF ARTS IN TEACHING -MATHEMATICS

# Requirements (48 units)

# 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 classification in the program are:

- Successful completion with a grade of "B" (3.0) or better in course work deemed equivalent to the following courses at California State University, San Bernardino:
  - MATH 211. Basic Concepts of Calculus
    - MATH 212. Calculus II
  - MATH 213. Calculus III

MATH 251. Multivariable Calculus I

One of the following two courses:

MATH 329. Transformation Geometry

- MATH 529. Advanced Geometry
- MATH 345. Number Theory and Proof
- MATH 372. Combinatorics
- 2. A teaching credential;
- Submission of a completed Master of Arts in Teaching with a major in Mathematics (MAT) application form;
- 4. Completion of the graduate entrance writing requirement;
- 5. Three letters of recommendation;
- Submission of a one- or two-page typewritten statement of the student's area of interest, preparation for study in this program and professional goals;
- 7. Approval by the Graduate Coordinator.

Students who do not meet these criteria may be admitted as conditionally classified graduate students following review by the Department of Mathematics and the College of Education.

## Advising

Each graduate student must be advised by the graduate coordinator or other MAT faculty before enrolling in the program. Students will develop an appropriate course of study based on their preparation and interests in consultation with an advisor. The specific program must be approved by the MAT Graduate Committee prior to advancement to candidacy.

In the latter part of the program, a student will need a project advisor and two additional members of a project committee, at least one committee member from the department of mathematics and at least one from the College of Education. The student will enroll in EDUC 600 or MATH 600 depending on the affiliation of the project advisor. Members of the project committee should be selected at least two or three quarters before enrolling in the graduate project course.

## Advancement to Candidacy

- In order to be advanced to candidacy, the student must:
- 1. Achieve classified status;
- Submit a formal program of graduate work prepared in consultation with an advisor and approved by the MAT Graduate Committee;
- 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 Students.

## **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;
- 3. No fewer than 34 units completed in residence at this university;

- 4. Completion of a graduate project. A project proposal must be approved by the MAT Graduate Committee no later than the quarter preceding enrollment in EDUC 600 or MATH 600. The written project satisfies the graduation writing requirement. Successful completion of the project includes an oral presentation of the project to the faculty. Guidelines for submitting a project proposal and for the project itself are available from the offices of the Department of Mathematics and the College of Education;
- 5. Submission and approval of a student portfolio assessing and documenting academic progress;
- A grade point average of at least 3.0 ("B") in the core courses as well as an overall grade point average of 3.0 ("B") in the program, with no course grade being less than "B-;"
- 7. Any additional general requirements not cited above and listed on Page 329.

# **Degree Requirements (48 units)**

Core courses (44 units)

- 1. MATH 631. Algebra from a Teaching and Problem Solving Perspective (6)
- 2. MATH 632. Geometry from a Teaching and Problem Solving Perspective (6)
- 3. MATH 633. Trigonometry from a Teaching and Problem Solving Perspective (6)
- 4. MATH 634. Calculus from a Teaching and Problem Solving Perspective (6)
- 5. MATH 635. Statistics and Probability from a Teaching and Problem Solving Perspective (6)
- 6. ESEC 672. Educational Assessment in Mathematics Teaching (4)
- 7. EDUC 607. Introduction to Educational Research (4)
- 8. EDCI 664. Thesis/Project Design in Curriculum and Instruction (2)
- 9. Four units chosen from: EDUC 600. Master's Degree Project (4) MATH 600. Master of Arts in Teaching Mathematics Project (4)
   40. MATH 601. Assessment Destfelie (0)
- 10. MATH 601. Assessment Portfolio (0)

Elective (4 units)

1. Four units of upper-division mathematics courses. Students are encouraged to take MATH 480 if not taken previously. Any mathematics course at the 400- to 600- level may be taken.

(MATH)

# COURSE OFFERINGS IN MATHEMATICS

## **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 329, 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)

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# 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. (1 to 4 units)

# 599. Senior Seminar for Future Mathematics Educators

Summative assessment of subject matter competence for prospective mathematics teachers. Each student will complete and present a project relating advanced mathematics to the high school curriculum, and complete and submit a portfolio of their undergraduate work in mathematics for assessment. Meets four hours per week during the first week and the last four weeks of the quarter. Graded A,B,C/no credit. Prerequisites: MATH 199, 480 and 499. (2 units)

# Graduate/Postbaccalaureate

May not be taken by undergraduate students.

# 600. Master of Arts in Teaching Mathematics Project

Written project, an oral presentation of the project to the department and a complete Assessment Portfolio. May not be counted toward fulfilling the requirements of the Master of Arts in Mathematics. Graded credit/no credit. Prerequisites: graduate standing, consent of the instructor, approval of the project proposal by the graduate committee and submission of at least three contributions to the Assessment Portfolio. A written proposal for a project must be submitted to the graduate committee no later than the ninth week of the quarter preceding enrollment in MATH 600. (4 units)

# 601. Assessment Portfolio

Preparation of an acceptable student portfolio assessing and documenting academic progress. For detailed requirements see the MAT graduate coordinator. Prerequisite: advancement to candidacy. (0 units)

# 604. Seminar in Problem Solving I

A problem solving seminar emphasizing induction and analogy in the style of George Polya. Prerequisites: MATH 329, 331, 345, 355 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. May not be counted toward fulfilling the requirements in the mathematics major. Prerequisite: one of the following: PSYC 210, SSCI 215, MATH 305 or 350, SCM 210 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)

## 631. Algebra from a Teaching and Problem Solving Perspective

Algebraic structure and its development. Equations and systems of equations. Teaching strategies and curriculum issues. Applications and problem solving will be stressed throughout. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisites: admission to the MAT in Mathematics program and MATH 345, or consent of instructor. (6 units)

## 632. Geometry from a Teaching and Problem Solving Perspective

The transition from geometry as an empirical study first to "local" proofs and then to axiomatic systems. Comparisons of traditional approaches to geometric proof with those of analytic geometry. Focus on construction to illustrate and motivate teaching strategies and curriculum issues. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisite: MATH 329 and admission to the MAT in Mathematics program, or consent of instructor. (6 units)

# 633. Trigonometry from a Teaching and Problem Solving Perspective

Trigonometric functions, identities and equations as foundation for study of the complex numbers, the complex plane, polar coordinates, de Moivre's theorem, and definition of trigonometric functions in terms of exponential functions. Geometric and analytic properties of the conic sections. Problem solving, curricular and pedagogical issues emphasized throughout. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisites: MATH 213, 251, 631, 632, and admission to the MAT in Mathematics program, or consent of instructor. (6 units)

## 634. Calculus from a Teaching and Problem Solving Perspective

Focus on non-standard problems and theoretical issues in calculus that lend themselves to multiple problem-solving approaches and pedagogical strategies. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisites: MATH 213, 251, 631, 632, 633, and admission to the MAT in Mathematics program, or consent of instructor. (6 units)

# 635. Statistics and Probability from a Teaching and Problem Solving Perspective

Basic probability and descriptive and inferential statistics emphasizing active learning teaching strategies. Students will design and carry out an investigative project. Students will adapt methods from this course to a teaching setting and report on this experience. Prerequisites: MATH 372, 631, 632, and 633, and admission to the MAT in Mathematics program, or consent of instructor. (6 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. (2 to 4 units)

## 696. Master's Degree Project I

Dissertation preparation and assessment portfolio completion. A written proposal for a project must be submitted to the graduate committee no later than the ninth week of the quarter preceding enrollment in MATH 696. Prerequisites: graduate standing, consent of instructor, approval of the project proposal by the graduate committee and approval of at least five contributions to the assessment portfolio of the seven listed under 6b and 6c in the requirements for graduation. (3 units)

# 697. Master's Degree Project II

Finalizing the master's project including approval of the dissertation format by the Office of Graduate Studies, an oral presentation of the project to the department, and formal acceptance of the completed dissertation. Prerequisites: Math 696 and consent of instructor. (1 unit)

# 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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 (909) 537-5859 http://cal.csusb.edu/depts/music/

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. (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 instruments. Prerequisite: MUS 603 or consent of instructor. (4 units) 7

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# NATIONAL SECURITY STUDIES

# Master of Arts in National Security Studies

Certificate

#### Intelligence Methodology

### National Security Studies Office

Social and Behavioral Sciences Building, Room 112 (909) 537-5534 http://dcr.csusb.edu/nss/

FACULTY: Mark Clark (Director), William Green, Brian Janiskee, 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:

- 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.)
- 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);
- 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;

 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 postbaccalaureate 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;
- 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;
- 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**

- 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;
- A grade point average of at least 3.0 ("B") in all national security studies program courses taken;
- 3. Choose Option A or B:
  - 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. Article length essay (PSCI 602) and the process of "peer review;"
- 5. Any additional general requirements not cited above and listed on Page 329.

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. Continuous Enrollment for Graduate Candidacy Standing 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 select a Regional Field (e.g. Eurasia, Middle East) or a Functional Field (e.g. Terrorism, Intelligence, etc.) to be arranged between faculty advisor and student, and approved by the NSS Director.

### **Comprehensive Examination**

Comprehensive examinations must be taken in the core and the regional field or functional field. The comprehensive examination committee for each candidate will consist of the core advisor, the advisor of the field and a third faculty member from the department. 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, PSCI 999.

### 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 one field, 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)**

Core courses (16 units)

- 1. PSCI 600. Theory and History of Strategy (4)
- 2. PSCI 601. Strategic Systems and Strategic Thought (4)
- 3. PSCI 602. International Security (4)
- 4. Four units chosen from:
  - MATH 611. Operations Analysis (4)
  - PSCI 609. International Relations Theory (4)
  - PSCI 624. Politics of National Security (4)
  - Note: MATH 611 requires a prerequisite of a statistics course.

#### Field (12 units)

Students must take either A or B in consultation with their faculty advisor, courses to be selected from the list below and approved by the program director:

- A. Regional Area of Concentration (12 units)
  - Eurasia
  - Middle East

Others, to be arranged between faculty advisor, students and approved by the NSS Director.

- B. Functional Area of Concentration (12 units) Intelligence
  - Terrorism

Others, to be arranged between faculty advisor, students and approved by the NSS Director.

Electives (16-18 units)

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•	the core or fiel	chosen from among courses not used for either d requirements listed below. Students who elect to 699 must choose 16 units.
	ECON 630.	International Economic Issues (4)
	ENG 631.	Approaches to Professional Writing (4)
	HIST 521.	The Soviet Union (4)
	HIST 556.	Foreign Relations of the United States (4)
	MATH 611.	Operations Analysis (4) (if not taken as part of
		the core requirements)
	PSCI 540.	Seminar in Comparative Politics (4) when the
		topic is Central Asian Politics, Eastern Europe,
		or Middle East Politics
	PSCI 581.	Political Economy of Russia (4)
	PSCI 590.	Seminar in International Relations (4) when
		the topic is Political Intelligence, Seapower, or
		International Terrorism
	PSCI 604.	Seminar in International Law (4)
	PSCI 605.	Topics in Strategy (4)
	PSCI 609.	International Relations Theory (4) (if not taken as
		as part of core requirement)
	PSCI 611.	Regional Security of Eurasia (4)
	PSCI 613.	Middle East Security (4)
	PSCI 621.	Strategic Intelligence (4)
	PSCI 622.	Arms Control (4)
	PSCI 624.	Politics of National Security (4)
	PSCI 625.	American Foreign Policy (4)
	SSCI 695.	Directed Graduate Studies (2 or 4) for a
		maximum of (10)
	SOC 606.	Sociology of Terrorism (4)

**Culminating Experience** 

- 1. Students must complete A or B below:
  - A. PSCI 999. Comprehensive Examination (0)
  - B. PSCI 699. Thesis (2)

Forty-two units of course work and a minimum of four units of thesis 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. See Page 55 for additional certificate information.

# 452 / National Security Studies

S U S	Certificate in lu	ntelligence Methodology
ъ В	Prerequisite:	6 6,
	<ol> <li>Prerequisite:</li> <li>Graduate stand Certificate Require</li> <li>PSCI 571.</li> <li>PSCI 621.</li> <li>GEOG 306.</li> <li>Four units chos GEOG 406. GEOG 605.</li> </ol>	ding. ments (25 units) Organization of U.S. Intelligence (1) Strategic Intelligence (4) Remote Sensing of Environment (4)

# NATURAL SCIENCES

# **College of Natural Sciences**

Biological Sciences Building, Room 107 (909) 537-5300 http://nsci.csusb.edu/

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. (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. (1 unit)

## 635. Developing Life Science Laboratories

Hands-on laboratory activities which involve the design and implementation of science demonstrations for the life sciences. (1 unit)

# 636. Developing Physics Laboratories

Hands-on laboratory activities which involve the design and implementation of science demonstrations for physics. (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. (1 to 6 units) C S

# NURSING

# Master of Science in Nursing

Community Health Nursing School Nurse

# Department of Nursing

Health and Physical Education Building, Room 215 (909) 537-5380 http://nursing.csusb.edu/index.asp

**FACULTY:** Mary Cannon (Assistant Dean), Olivia Catolico, Ellen Daroszewski, Cheryl diPretero, Edna Domingo, Roger Harthrong, Susan McGee, Mary Molle (MSN Program Coordinator), Phyllis Nix, Pamela Osuri, Marcia Raines, Donna Rane-Szostak, Paul Wielenga, Anna Wilson

# MASTER OF SCIENCE IN NURSING

# **Requirements:**

# Community Health Nursing Track (64 units)

# School Nurse Track (64 units)

The Department of Nursing offers a graduate program leading to a Master of Science in Nursing with a clinical focus in advanced community/public health nursing. The program is designed to educate professional nurses for leadership and service in culturally diverse, pluralistic communities. Graduates are prepared for advanced certification in community/public health nursing or school nursing.

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 64 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:

- 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;
- 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 School Nurse Credential**

In order to be recommended for a credential, the student must have:

- Completed all prescribed coursework with a grade point average of 3.0 ("B") or better;
- 2. A current First Aid card and current Cardiopulmonary Resuscitation card.

# Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

- 1. Achieved classified status;
- Completed at least 30 quarter units of course work with a minimum grade point average of 3.0 ("B");
- Been accepted by a major advisor for the Department of Nursing who will also accept chairing the student's project/thesis committee;
- 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;
- A minimum of 64 quarter units of designated courses as approved on the petition for advancement to candidacy;
- 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. Choose A, B or C below:
  - A. Completion and defense of an acceptable thesis;
  - B. Completion and presentation of an acceptable clinical project;
  - C. Completion of NURS 999. Comprehensive Examination.

The written comprehensive examination is designed to test the student's knowledge of the field of advanced community health nursing practice. Students may enroll in the examination no earlier than the last quarter in which coursework is taken and 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 MSN Graduate Committee to retake the exam within one year. After an exam failure, the candidate and advisor will discuss actions necessary for remediation of shortcomings. For more information related to the comprehensive examination process and scheduling contact an MSN program faculty.

## **Degree Requirements (64 units)**

Core Courses

- 1. NURS 600. Advanced Nursing Practice Community Health Nursing I (6)
- 2 NURS 610. Advanced Nursing Practice Community Health Nursing II (6)
- 3. NURS 620. Advanced Nursing Practice Community Health Nursing III (6)
- 4. NURS 635. Biostatistics for Advanced Practice Nursing (4)
- 5. NURS 645. Research for Advanced Practice Nursing (4)
- 6. NURS 655. Theoretical Foundations for Advanced Practice Nursing (4)
- 7. One of the following course sequences: Clinical Project NURS 697. Clinical Project in Nursing (6) Thesis Research NURS 699. Thesis Research in Nursing (6)

### **Comprehensive Examination**

- 1. NURS 999. Comprehensive Examination (0)
- 2. Six units of 500- or 600-level electives chosen in consultation with the graduate advisor and approved by the MSN program coordinator.

C S U S B

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#### **Community Health Nursing Track**

00	Community meaning mack				
1.	NURS 597.	Issues and Trends in Advanced Practice			
		Nursing (4)			
2.	NURS 630.	Clinical Nurse Specialist Roles (6)			
3.	NURS 681.	Clinical Nurse Specialist Internship I (3)			
4.	NURS 682.	Clinical Nurse Specialist Internship II (3)			
5.	Four units cho	sen 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)			
6.	Eight units of	nursing and other electives that are appropriate.			
	The following	list includes recommended courses with substitu-			
	tions to be app	proved by the graduate advisor.			
	NURS 550.	Informatics for Advanced Practice Nursing (4)			
	NURS 654.	Transcultural Health Care for Advanced			
		Practice Nursing (4)			
	NURS 656.	Management Skills for Advanced Practice			
		Nursing (4)			
	NURS 657.	Advanced Practice Nursing Case			

#### NURS 657. Advanced Practice Nursing Case Management (4) NURS 658. Educator Roles for Advanced Practice Nursing (4)

#### School Nurse Track

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. HSCI 364. Drug and Alcohol Use and Abuse (4)
- Four units chosen from: HSCI 433. School Health Education (4) HSCI 591. Health Education Curriculum and Instruction (4)
- Two advanced practice nursing courses approved by the graduate advisor.

Students will be advised on appropriate alternative courses if HSCI 433, or 364, 374, 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)

## 550. Informatics for Advanced Practice Nursing

The nature and functions of nursing informatics to support advanced practice nursing and the delivery of care to communities. 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. (1 to 6 units)

## 597. Issues and Trends in Advanced Practice Nursing

Examines major nursing issues, health care trends, health policies and their impact upon communities and aggregate populations from the perspective of advanced practice nursing. Explores issues such as allocation, poverty, homelessness, violence, substance abuse and changing disease patterns in relation to health care reform and the current social or political environment. Formerly NSCI 597. Prerequisite: graduate standing or consent of department. (4 units)

### Graduate/Postbaccalaureate

May not be taken by undergraduate students.

### 600. Advanced Nursing Practice Community Health Nursing I

The role of the advanced practice clinical nurse specialist (CNS) in Community Health Nursing, focusing on research-based practice related to epidemiologic issues, environmental assessment and health, economic forces, health promotion in vulnerable populations, community organization, nursing informatics, and community assessment and planning. Significant clinical application is required. Three hours lecture and nine hours laboratory. Materials fee required. Prerequisite: classified graduate standing in MSN program and current RN licensure. (6 units)

## 610. Advanced Nursing Practice Community Health Nursing II

The role of the advanced practice clinical nurse specialist (CNS) in Community Health Nursing, focusing on research-based practice related to the application of epidemiological and environmental health principles, program implementation and monitoring, program management, grant proposal writing for a needs-based program, and community interventions in specific settings and among specific vulnerable populations. Significant clinical application is required. Three hours lecture and nine hours laboratory. Materials fee required. Prerequisites: NURS 600 and current RN licensure. (6 units)

## 620. Advanced Nursing Practice Community Health Nursing III

The role of the advanced practice clinical nurse specialist (CNS) in Community Health Nursing focusing on research-based practice related to program evaluation of effectiveness, quality improvement, bioethics and health policy, negotiation, networking, collaboration, advanced clinical decision-making, the political process and policy formation, research as a policy/political tool, and centers of excellence

## 456 / Nursing

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in the provision of health care. Significant clinical applications are required. Three hours lecture and nine hours laboratory. Materials fee required. Prerequisites: NURS 610 and current RN licensure. (6 units)

## 630. Clinical Nurse Specialist Roles

Examines advanced clinical practice, teaching, research, consultation, and management within a community, public health agency, or organization including health promotion/disease prevention, case management, program management, strategic planning, policy development, and cultural diversity. Focuses on disease/injury prevention, developing basic health care systems that can be easily accessed by populations. Significant clinical applications are required. Three hours lecture and nine hours laboratory. Materials fee required. Prerequisites: consent of department and current RN licensure. (6 units)

## 635. Biostatistics for Advanced Practice Nursing

Statistical knowledge and tools for advanced practice nursing including the basic concepts of biostatistics, quantitative methodology in epidemiology, clinical applications for evidence based practice, and statistical utility for decision making. Introduction to statistical analysis software; the process of instrument development, validity and reliability assessment, and pilot testing; decision theory; the analysis and evaluation of the methods, results and discussion sections of a research report. Formerly a topic under NURS 500. Prerequisite: consent of department. (4 units)

## 645. Research for Advanced Practice Nursing

Overview of the research process, the composition of a literature review, ethical issues, research design, and data evaluation. Metaanalyses, odds ratio, and risk ratio methods are applied to advanced practice with populations. Formerly NURS 625. Prerequisite: consent of department. (4 units)

## 654. Transcultural Health Care for Advanced Practice Nursing

Overview of assessment, planning, implementation and evaluation strategies for disease prevention and health promotion in cultural communities considering the specific behaviors and views unique to cultural populations which directly impact health. Specific cultural health related behaviors from populations represented within the United States are examined. Formerly a topic under NURS 500. Prerequisite: consent of department. (4 units)

# 655. Theoretical Foundations for Advanced Practice Nursing

Examines nursing knowledge in the context of the history, philosophical perspectives, major influences, and current controversies. Theoretical foundations of nursing as applied to select community issues emphasizing intervention development and outcome evaluation. Formerly NURS 615. Prerequisite: classified standing in the MSN program or consent of department. (4 units)

## 656. Management Skills for Advanced Practice Nursing

Overview of management concepts and skills necessary for advanced practice nursing in the community. Focus is on effective management of health care systems, programs and resources. Formerly a topic under NURS 500. Prerequisite: consent of department. (4 units)

## 657. Advanced Practice Nursing Case Management

Foundations of case management for advanced practice nursing. Health care delivery system, managed care, case management concepts, and the case management process are discussed with emphasis on legal and ethical issues, leadership skills, and case management tools and technology. Formerly NURS 640. Prerequisite: consent of department. (4 units)

## 658. Educator Roles in Advanced Practice Nursing

Introduction to teaching-learning theory as a basis for curricular development. Explores advanced practice nursing educator role in academic and community settings focusing on program development, outcome measurement and leadership. Formerly NURS 650. Prerequisite: consent of department. (4 units)

## 681. Clinical Nurse Specialist Internship I

Clinical application of advanced nursing practice in community/public health nursing in diverse settings allowing for a population-focused practice. Formerly NURS 680. Graded credit/no credit. Prerequisites: NURS 600 or 630, consent of the department, and current RN licensure. (3 units)

## 682. Clinical Nurse Specialist Internship II

Clinical application of advanced nursing practice in community/public health nursing in diverse settings allowing for a population-focused practice. Formerly NURS 680. Graded credit/no credit. Prerequisites: NURS 600, 610 and 630, consent of department and current RN licensure. May be taken concurrently with NURS 680. (3 units)

## 697. Clinical Project in Nursing

Independent clinical project conducted under the direction of a major program faculty advisor. Prerequisites: advancement to candidacy and NURS 625. (6 units)

# 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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. Prerequisites: advancement to candidacy and NURS 625. (6 units)

## 999. Comprehensive Examination

An integrative, written examination covering course work required for the major. The comprehensive exam committee for each candidate will consist of the student's advisor and one other faculty member teaching in the program. Candidates failing must retake the exam within one year, and must consult with their advisor to discuss actions necessary for remediation of shortcomings. Graded credit/no credit. Prerequisite: consent of department. (0 units)

# POLITICAL SCIENCE

# **Department of Political Science**

Social and Behavioral Sciences Building, Room 112 (909) 537-5535 http://dcr.csusb.edu/psci/

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. International Security

Seminar on various conceptions of international security, with emphasis on current crises in international politics. 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. (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)

## 613. Middle East Security

Middle East security, including its political, military, ideological, and economic components. (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)

# 624. Politics of National Security

Examination of the influence of American political institutions and processes on U.S. national security strategy. Formerly a topic under PSCI 605. (4 units)

## 625. American Foreign Policy

Seminar on contemporary American foreign policy. May be repeated once as topics change. (4 units)

## 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. (0 units) 7

# PSYCHOLOGY

# Master of Arts in Psychology

with concentrations in: General-Experimental 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 (909) 537-5570 http://psychology.csusb.edu/

FACULTY Mark Agars (Graduate Coordinator, MSI/O), Allen Butt, David Chavez, Yuchin Chien, John Clapper, Gloria Cowan (Emeritus), Robert Cramer, Cynthia Crawford, Janelle Gilbert, Chuck Hoffman, Laura Kamptner, James Kaufman, Hideya Koshino, Janet Kottke, Michael Lewin (Graduate Coordinator, MSCC), Faith McClure, Sanders McDougall (Graduate Coordinator, MAGE), Fred Newton, Jean Peacock, Jason Reimer, Robert Ricco, David Riefer, Matt Riggs, Christy Scher, Janel Sexton, Kenneth Shultz, Geraldine Stahly, Edward Teyber, Jodie Ullman, Sharon Ward (Graduate Coordinator, MACD), Amanda Wilcox-Herzog, Eugene Wong, Joanna Worthley (Chair)

# MASTER OF ARTS IN PSYCHOLOGY

## Requirements (50-51 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 concentrations as their area of specialization:

- 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. 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 these concentrations differ in emphasis, both 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;
  - 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;
- A cumulative undergraduate grade point average of at least 3.0 ("B") overall and in the major;
- Submission of scores for the verbal and quantitative portions of the Graduate Record Examination (for the General-Experimental Psychology only);

- 4. Completion of the graduate entrance writing requirement;
- A brief statement describing preparation for graduate study, the goals of graduate study and professional aspirations, to be submitted to the department;
- 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.);
- 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. Child Development concentration, the following prerequisites or their equivalent:
     DOVC 100

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;
- 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;
- 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;
- 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

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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**

- A minimum of 51 quarter units for the General-Experimental or 50-51 units for the Child Development concentration of approved graduate-level work, with 38 completed in residence at this university;
- 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;
- Successful completion of the course work listed below, including a culminating experience consisting of the completion and defense of an original master's thesis;
- The graduation writing requirement is met upon successful completion of the thesis;
- 5. Any additional general requirements not cited above and listed on Page 329.

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 (Continuous Enrollment for Graduate Candidacy Standing) may be taken if another course is not taken during a given quarter.

# Degree Requirements (50-51 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
10.	PSYC 699.	Thesis (5)
11.	Eight units of I	PSYC 500- or 600-level courses, excluding PS

11. Eight units of PSYC 500- or 600-level courses, excluding PSYC 595, 611, 612 and 689.

## Child Development Concentration (50-51 units)

# **Comprehensive Examination Option**

1.	HD 690.	Families and Parenting (4)
2.	PSYC 612.	Directed Readings (5)
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 651.	Advanced Cognitive Development (4)
7.	PSYC 654.	Advanced Life-Span Developmental
		Psychology (4)
8.	PSYC 664.	Applied Life-Span Developmental
		Psychology (4)
9.	PSYC 689.	Externship in Applied Psychology (5)
10.	PSYC 999B.	Comprehensive Examination: Child
		Development (0)
		• • • •

11. Twelve units of 500- or 600-level coursework from HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.

### **Project Option**

1.	HD 690.	Families and Parenting (4)
2.	PSYC 611.	Advanced Independent Study (5)
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)
- PSYC 651. Advanced Cognitive Development (4)
   PSYC 654. Advanced Life-Span Developmental Developmental Developmental Development (4)
  - Psychology (4) PSYC 664. Applied Life-Span Deve
- PSYC 664. Applied Life-Span Developmental Psychology (4)
   Twelve units of 500- or 600-level coursework from HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.
- 10. HD 695. Graduate Project (5)

Thesis Option

(4)

- 1. HD 690. Families and Parenting (4)
- 2. PSYC 611. Advanced Independent Study (5)
- 3. PSYC 640. Advanced Methods in Psychological Research (4)
- 4. PSYC 641. Analysis of Variance (5)
- 5. PSYC 642. Regression/Nonparametric Statistics (4)
- 6. PSYC 645. Advanced Infancy and Early Childhood Development (4)
- 7. PSYC 646. Advanced Middle Childhood and Adolescent Development (4)
- PSYC 651. Advanced Cognitive Development (4)
   PSYC 654. Advanced Life-Span Developmental Psychology (4)
- 10. PSYC 664. Applied Life-Span Developmental Psychology (4)
- 11. PSYC 699. Thesis (5)
- Four units of 500- or 600-level coursework from HD, PSYC, education, or other relevant field chosen in consultation with a faculty advisor.

# MASTER OF SCIENCE IN PSYCHOLOGY Requirements Clinical Counseling Thesis Concentration (82 units)

- Thesis Concentration (82 units)
- Comprehensive Examination
- Concentration (78 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

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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:

- 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;
- 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 SCM 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;
- 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:

- 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 329.

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:

- Completed a minimum of 75 quarter units of approved graduate level work with at least 60 units completed in residence at this university with a grade point average of a 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				
c	DOVC 644	Research (4)				
6. 7.	PSYC 641. PSYC 654.	Analysis of Variance (5) Advanced Life-Span Developmental				
1.	1010 004.	Psychology (4)				
8.	PSYC 665.	Psychopathology (4)				
9.	PSYC 667.	Family Processes (4)				
-	PSYC 671.	Marriage and Family Therapy Skills I (5)				
	PSYC 672.	Marriage and Family Therapy Skills II (5)				
	PSYC 673.	Marriage and Family Therapy Skills III (5)				
	PSYC 682.	Clinical Assessment (4)				
	PSYC 687A.	Marriage and Family Therapy Practicum (2)				
	PSYC 687B.	Marriage and Family Therapy Practicum (2)				
	PSYC 687C.	Marriage and Family Therapy Practicum (2)				
	PSYC 697A.	Advanced Practicum in Counseling				
		Psychology (4)				
18.	PSYC 697B.	Advanced Practicum in Counseling				
10	PSYC 697C.	Psychology (4) Advanced Practicum in Counseling				
19.	PSTC 09/C.	•				
20	PSYC 699.	Psychology (4) Thesis (5)				
		ectives to be chosen from 500- or 600-level cours-				
21.		PSYC 575, 595, 611 and 612.				
		o eight units of PSYC 697A, 697B and 697C may				
		aived for appropriate work experience.				
		C 679 is required for those students interested in				
		sure as a marriage and family therapist.				
		C 616 and 691 or comparable workshops are re-				
		d for those students interested in licensure as a				
		age and family therapist.				
Co		Examination Option (78 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				
c		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.	Marriage and Family Therapy Skills I (5)				
	PSYC 672.	Marriage and Family Therapy Skills II (5)				
	PSYC 673.	Marriage and Family Therapy Skills III (5)				
	PSYC 682.	Clinical Assessment (4)				
	PSYC 687A.	Marriage and Family Therapy Practicum (2)				
	PSYC 687B.	Marriage and Family Therapy Practicum (2)				
	PSYC 687C.	Marriage and Family Therapy Practicum (2)				
	PSYC 697A.	Advanced Practicum in Counseling				
10.	. 010 031A.	Psychology (4)				
17.	PSYC 697B.	Advanced Practicum in Counseling				
		Psychology (4)				
18.	PSYC 697C.	Psychology (4) Advanced Practicum in Counseling Psychology (4)				

Psychology (4)

19.	19. Eight units of electives to be chosen from 500- or 600- level						
	courses,	exclud	ding PSYC 575, 611 and 612.				
20.	PSYC 6						
	Notes:	*Up to	eight units of PSYC 697A, 697B and 697C may				
			lived for appropriate work experience.				
			C 679 is required for those students interested in				
			ure as a marriage and family therapist.				
			C 616 and 691 or comparable workshops are re-				
			for those students interested in licensure as a				
		•	age and family therapist.				
Ind	ustrial/O						
Industrial/Organizational Thesis Option (75 units)							
1.			Seminar in Industrial/Organizational Psychology:				
			Current Professional Issues (2)				
2.	PSYC 58	81B.	Seminar in Industrial/Organizational Psychology:				
			Organizational Leadership (2)				
3.	PSYC 5	81C.	Seminar in Industrial/Organizational Psychology:				
•			Processes of Work Groups (2)				
4.	PSYC 5	81D.	Seminar in Industrial/Organizational Psychology:				
			Training and Executive Development (2)				
5.	PSYC 6	01.	Performance Assessment (4)				
6.	PSYC 6	02.	Organizational Development (4)				
7.	PSYC 6	03.	Personnel Selection and Validation (4)				
8.	PSYC 6	04.	Work Motivation and Organizational Reward				
			Systems (4)				
9.	PSYC 6	11.	Advanced Independent Study (2-5) for a total				
			of (5)				
10.	PSYC 6	33.	Professional Ethics and Law (4)				
11.F	PSYC 64	0.	Advanced Methods in Psychological				
			Research (4)				
12.	PSYC 64	41.	Analysis of Variance (5)				
13.	PSYC 64	42.	Regression and Nonparametric Statistics (4)				
14.	PSYC 64	43.	Multivariate Methods (4)				
15.	PSYC 64	44.	Applied Psychological Measurement (4)				
16.	PSYC 6	75.	Practicum in Applied Psychology (4)				
17.	PSYC 6	89.	Externship in Applied Psychology (2-5) for a total				
			of (4)				
	PSYC 6		Thesis (5)				
19.	<ol><li>Four units chosen from:</li></ol>						
	PSYC 6		Advanced Cognitive Psychology (4)				
	PSYC 6		Advanced Learning and Motivation (4)				
	PSYC 6	54.	Advanced Life-Span Developmental				
			Psychology (4)				
	PSYC 6		Advanced Biological Psychology (4)				
~~	PSYC 6		Advanced Personality and Social Psychology (4)				
20.			our units chosen from:				
	ACCT 5		Financial Accounting (4)				
	ECON 5		Economic Analysis (4)				
	FIN 503.		Financial Management Concepts (4)				
			nly one of the following two courses:				
	HD 540. Work, Retirement and Leisure (4) PSYC 540. Work, Retirement and Leisure (4)						
	MGMT 6		Organization Theory and Behavior (4)				
	MGMT 6		Managing Human Resources (4)				
	MGMT 6 MGMT 6		Communication and Interpersonal Processes (4)				
	PSYC 6		Industrial Relations (4)				
	PSYC 6		Directed Readings (2-5) Cross-Cultural Counseling (4)				
	PSYC 6		Psychopathology (4)				
	PSYC 6		Theories of Counseling and Psychotherapy (4)				
	10100		(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. (2 to 4 units)

## 596. Practicum in Psychology: Peer Advising

Theory, training, and practice in the basic knowledge, skills, and abilities involved in academic peer advising. One hour seminar, three hours practicum. A total of eight units may be applied toward graduation, of which a maximum of four units can be an upper-division elective in the psychology or human development major. Graded credit/no credit. An application must be submitted during the quarter prior to the quarter student plans to enroll. Prerequisites: consent of instructor and department. (2 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)

### 609. Graduate Research in Psychology

Original research in psychology conducted under the direction of a faculty member. Units may not count towards the M.A. and M.S. in Psychology. Graded credit/no credit. Prerequisites: classified standing and consent of instructor. (2 to 5 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; advancement to candidacy and consent of department. (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. (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)

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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. Prerequisite: 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. 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. Three hours lecture and two hours activity. Prerequisites: PSYC 641 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)

## 648. Social-Emotional Development

Research and theories of social and emotional development from birth to adolescence. Emphasis on major facets of social-emotional development. Prerequisites: classified graduate standing in Psychology M.A. or M.S. degree programs and consent of department. (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)

# 464 / Psychology

# 651. Advanced Cognitive Development

Research theory in the development of perception, language, memory, problem solving, reasoning, and other cognitive processes from birth through adolescence. Includes allied disciplines such as the brain sciences and applications to the field of education. Formerly a topic under PSYC 655. Prerequisites: classified standing 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. Marriage and Family Therapy Skills I

Foundational skills in counseling, the therapeutic alliance, crisis management and treatment planning. 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. Marriage and Family Therapy Skills II

Advanced counseling skills used to identify and modify familial, relational, emotional, cognitive and behavioral aspects of individual, couple and family functioning. 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. Marriage and Family Therapy Skills III

Advanced counseling skills used with children, adolescents and their families. Three hours lecture and six hours laboratory. Prerequisites: classified standing in the M.S. in Psychology, grade of no less than "B-" in PSYC 672 and 687B; 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. 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.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. Marriage and Family Therapy Practicum

Supervised counseling practicum. 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 five units may apply toward the I/O Option. Graded credit/no credit. Prerequisites: PSYC 640 and consent of department. (2 to 5 units)

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# 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. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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 the major advisor and resulting in a written thesis. Prerequisites: PSYC 640 and/or 641; PSYC 611; advancement to candidacy and consent of department. (5 units)

## 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing.

- A. Clinical Counseling (0 units)
- B. Child Development (0 units)

# Master of Public Administration

Accredited by the National Association of Schools of Public Affairs and Administration

## **Department of Public Administration**

Jack Brown Hall, Room 456

(909) 537-5758 http://www.cbpa.csusb.edu/pa/

**FACULTY** David Baker, Chuck Christie, Joelie De La Torre, Albert K. Karnig, Guenther Kress, Audrey Mathews, Monty Van Wart (Chair and Graduate Coordinator), 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;
- 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;
- 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. MATH 305. Statistics: Hypothesis Testing and Estimation or
  - SCM 210. Applied Business Statistics
  - 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.)

 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;
- 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;
- 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 a 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:

- 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.

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(PA)

- 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. PA 999. Comprehensive Examination (0) which requires acceptable expository writing skills;

7. Any additional general requirements not cited above and listed on Page 329.

## Degree Requirements (48 units)

### **Comprehensive Examination Option**

- 1. 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. PA 999. Comprehensive Examination (0)
- 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

## **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. (4 units)

### 575. Internship in Public Administration

Supervised work and study in private or public organizations. May be repeated once for credit. A total of two College of Business and Public Administration 575 courses may be applied toward graduation. Graded credit/no credit. Prerequisites: consent of instructor and the department's internship coordinator. (4 units)

#### 468 / Public Administration

## 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. (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: SCM 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: MATH 305 or SCM 210. (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 decisionmaking. (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)

#### 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program, and in good academic standing. (0 units)

# PUBLIC HEALTH

#### Master of Public Health

#### Department of Health Science and Human Ecology

Jack Brown Hall, Room 263 (909) 527-5339 http://health.csusb.edu/

FACULTY: Dorothy Chen-Maynard, Kim Clark, Daniel Fahey (Coordinator), Marsha Greer, Joe Hughes, Robert LaChausse,

Joseph Lovett, Lal Mian, Cindy Paxton (Chair),

#### MASTER OF PUBLIC HEALTH

#### Requirements (60 units)

The Master of Public Health is appropriate for health professionals furthering their career in the health and human services field, including county, state and federal health agencies, community-based organizations and public institutions dedicated to the improvement of population health status. The combination of evening coursework in community health education combined with an option for thesis research, field experience, project or a comprehensive examination makes the Masters of Public Health the preferred terminal degree for public health professionals.

Specific entrance requirements have been established by the University and the Department of Health Science and Human Ecology. Further information and application materials are available at the department office.

#### Admission to the 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") in the last 90 quarter units of undergraduate coursework and in all post-graduate coursework;
- 2. Undergraduate coursework in the natural and social sciences and statistics, as well as in cultural, social and ethnic diversity;
- 3. Completion of the graduate entrance writing requirement;
- 4. Submission of Graduate Record Examination (GRE) score;
- The Test of English as a Foreign Language (TOEFL) for applicants whose education has been in a language other than English;
- Paid professional experience in health and human services (preferred);
- Three letters of recommendation, one from the school where the applicant most recently completed coursework, or from someone who can attest to the applicant's academic ability and professional promise in the graduate degree program;
- 8. A statement of purpose, double-spaced and three pages maximum, describing those experiences which have shaped the applicant's interest in public health, the one academic experience which has meant the most to the applicant in his/her professional career, immediate and long term professional goals, reasons for being interested in the MPH program; strengths the applicant brings to the program, and those skills which the applicant would like to improve.

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 16 quarter units of MPH core coursework with a minimum grade point average of 3.0 ("B") and removal of any deficiencies.

#### Advancement to Candidacy

To be advanced to candidacy, the student must:

- 1. Achieve classified status;
- Complete 20 quarter units of core coursework with a minimum grade point average of 3.0 ("B");
- Submit a formal program of study of graduate coursework prepared in consultation with the major advisor and approved by the MPH graduate coordinator. The program will include a professional field experience, project, thesis or comprehensive examination;
- If the thesis option is selected, identify a faculty member from the Department of Health Science and Human Ecology who will chair the student's thesis committee;
- 5. Be recommended for advancement to candidacy from the graduate coordinator of the selected concentration area.

#### **Requirements for Graduation**

- Advancement to candidacy for the degree and approval of the specific program of study;
- A grade point average of 3.0 ("B") or better in coursework taken to satisfy the requirements of the MPH and grades of 2.0 ("C") or better in all courses in the program;
- A minimum of 60 units of approved graduate-level coursework included in the formal program, with no more than the required core courses transferred from an accredited MPH program elsewhere, and at least half of the units required for the degree gained from 600-level courses in Health Science and Human Ecology (HSCI);
- 4. One of the following:
  - a. completion and presentation of an acceptable project
  - b. completion and presentation of an acceptable thesis
  - c. passing the comprehensive examination;
- 5. The graduation writing requirement is met upon successful completion of the field experience report, project or thesis.
  - **Note:** Classified and conditionally classified graduate students in the MPH program must complete their degree requirements within seven years of initial admission to the degree program.

#### Degree Requirements (60 units)

Public Health Core (32 units)

- 1. HSCI 501. Foundations I: Health Status and Determinants of Health (4)
- 2. HSCI 502. Foundations II: Health System Organization and Delivery (4)
- 3. HSCI 503. Public Health Statistics (4)
- 4. HSCI 504. Environmental and Occupational Health (4)
- 5. HSCI 506. Epidemiology (4)
- 6. HSCI 695. Capstone Seminar (4)
- 7. Eight units chosen from:
  - Project
  - HSCI 696A. Project: Proposal Development and Research (4)
     HSCI 696B. Project Research, Writing and Defense (4)
  - 2. HSCI 696B. Project Research, writing and Derense (4) Thesis
  - 1. HSCI 699A. Thesis: Proposal Development and Research (4)
  - 2. HSCI 699B. Thesis: Research, Writing and Defense (4)

Comprehensive Examination

- 1. HSCI 999. Comprehensive Examination (0)
- 2. Eight units of HSCI courses approved by advisor.

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#### **Community Health Education (29 units)**

1. HSCI 607. Cross-Cultural Aspects of Health (4) Health Research Methods (4) 2. HSCI 608. 3. HSCI 613. Principles of Health Behavior (4) 4. HSCI 614. Health Education Practice (4) 5. HSCI 615. Health Education Program Planning and Evaluation (4) 6. HSCI 640. Administration of Health Education Programs (4) 7. Four units chosen from: HSCI 525. Health Data Analysis and Demography (4) HSCI 550. The Health Aspects of Death and Dying (4) Individual and Small Group Interventions in HSCI 560. Health Promotion (4) HSCI 604. Theory and Practice of Interventions (4)* HSCI 606. Advanced Program Evaluation (4)* HSCI 620. Advanced Topics in Epidemiological Methodology (4) HSCI 660. Advanced Topics in Health Science and Human Ecology (2-4) HSCI 689. Field Experience (2-8)*

*recommended for thesis candidates

## REHABILITATION COUNSELING

#### Master of Arts in Rehabilitation Counseling

Accredited by the Council on Rehabilitation Education

#### Certificate

Rehabilitation Counseling

# Department of Educational Psychology and Counseling

Faculty Office Building, Room 249 (909) 537-5606 http://www.csusb.edu/coe/

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 twoyear 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:

- 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 guide-lines to his/her advisor prior to advancement to candidacy;
- A cumulative grade point average of 3.0 ("B") in all previous graduate work;
- Completion of an interview with two faculty members to assess competence in interpersonal skills and aptitudes for the rehabilitation counseling profession;

 Participation in a continual evaluation process which will assess personality and character, professional ethics and aptitude, counseling skills, oral and written language usage and manysided interests.

#### Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

- 1. Achieved classified graduate standing;
- Satisfactorily completed EREH 615 with a grade of "B" (3.0) or better;
- 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;
- 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**

- A minimum of 72 quarter units of acceptable work, with 59 completed in residence at this university;
- A minimum of 48 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;
- 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 329.

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. 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.

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#### Degree Requirements (72 units)

Educational counseling courses (20 units):

1.	ECLG 655.	Multicultural Counseling (4)
2.	ECLG 656.	Counseling Theories and Techniques (4)
3.	ECLG 657A.	Counseling Practicum (4)

4. ECLG 678. Theory and Practice of Group Counseling (4)

5. EDUC 610. Research Methodology in Education (4)

Rehabilitation counseling courses (48 units)

1.	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)
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)
8.	EREH 652.	Dynamics of Human Behavior (4)
9.	EREH 667.	Practicum in Rehabilitation Counseling (4)
10.	EREH 679.	Fieldwork in Rehabilitation Counseling (4) for a total of (12)

Culminating Experience (4 units)

- 1. One of the following options:
  - A. Master's Degree Project Option (4 units) EDUC 600. Master's Degree Project (4)
  - B. Written Comprehensive Examination Option (4 units)

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1. EREH 999.	Comprehensive Examination (0)
2. Four units chos	en from:
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 II (4)
EVOC 504.	Principles of Adult Education (4)

Foundations of Vocational Education (4)

#### **CERTIFICATE PROGRAM**

EVOC 637.

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. See Page 55 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. (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. Pre-requisites: 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)

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#### 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)

#### 999. Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. (0 units)

# SOCIAL SCIENCES

## Master of Arts in Social Sciences

**College of Social and Behavioral Sciences** 

Social and Behavioral Sciences Building, Room 327 (909) 537-5524 http://csbs.csusb.edu/

#### COORDINATOR: Mayo Toruño

## 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:

- 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;
- 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;
- 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**

- Completion of a minimum of 45 quarter units of acceptable graduate-level work, with at least 32 quarter units completed in residence at this university;
- A grade point average of at least 3.0 ("B") in all courses taken as part of the program;

- Successful completion of the comprehensive examination or a thesis;
- 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;
- Any additional requirements not cited above and listed on Page 329.

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)

- 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. (1 to 6 units)

#### 698. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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)

#### 999. Comprehensive Examination

An assessment of the student's ability to integrate the knowledge of the areas, show critical and independent thinking and demonstrate mastery of the subject matter. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. (0 units)

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## 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 397.)

#### **Department of Social Work**

Social and Behavioral Sciences Building, Room 423 (909) 537-5501 http://socialwork.csusb.edu/

**FACULTY:** Patsy Andrada, Janet Chang, Thomas Davis, Ray Liles, Nancy Mary, Rosemary McCaslin, Teresa Morris (Chair and Graduate Coordinator), Herb Shon, Laurie Smith

#### 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 academic years (three year plan may include summer courses). It must be emphasized that an MSW program is very demanding of time and energy. Model (2) 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 comprises a Foundation and Advanced curriculum. Students must complete all Foundation and Advanced classes. Both the Foundation and the Advanced curriculum is divided into micro and macro social work practice. The micro practice sequence of courses prepares students to work with individuals, families and groups. The macro practice sequence of courses prepares students to work with organizations and communities with an integrated focus on policy practice.

The Pupil Personnel Services Credential in Social Work (PPS-SW) prepares students to be social workers in school settings. See Page 397.

#### Admission to the Program

- A baccalaureate degree from an accredited college or university;
- 2. A grade point average of 3.0 ("B") or better in all course work;
- A grade point average of 3.0 ("B") or better in the last 90 quarter units or last 60 semester units;
- 4. An academic background in the liberal arts;
- 5. Completion of the graduate entrance writing requirement;
- A year of full-time paid experience, one year internship in a social agency, or relevant volunteer service (this requirement may be waived);
- 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;

- 8. 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;
- 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;
- Completed with a grade point average of 3.0 ("B"), at least 48 quarter units of course work;
- Demonstrated academic and professional competence in field and classroom.

#### **Requirements for Graduation**

- A minimum of 90 quarter units of designated graduate courses as approved on the petition for advancement to candidacy. Seventyseven 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");
- 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 329.

#### Electives

In lieu of taking all electives in the social work curriculum, students may elect to take up to four 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.

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#### **Degree Requirements (90 units)**

The program is structured into two Models: Model 1 is designed for students who can devote their time and attention to intensive study. It offers six quarters of course work leading to the MSW degree in two years. Model 2 is designed for students who need to spread their studies over a longer period of time to accommodate other responsibilities. It offers course work leading to the MSW degree in three years. The timing of particular courses for the Model 1 and Model 2 programs are described on the department's web site and 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 one course 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 the foundation curriculum and the advanced 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 advanced 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 advanced curriculum. In a four-year program, the advanced courses are taken in the last two years of study. The curriculum is divided into the micro and macro practice sequences. All students take both sequences.

Required courses leading to the MSW degree cover five curricular areas: Micro Practice, Macro Practice, Human Behavior and the Social Environment (HBSE), Research and Field Work. 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 the advanced courses in the same category.

#### Foundation Courses (52 units)

- 1. Foundation Micro Practice (10 units)
  - SW 602A.Foundation Micro Practice I (4)SW 602B.Foundation Micro Practice II (4)
  - SW 602C. Foundation Micro Practice III (2)
- 2. Foundation Macro Practice (10 units)
  - SW 606A. Foundation Macro Practice I (4)
  - SW 606B. Foundation Macro Practice II (4)
  - SW 606C. Foundation Macro Practice III (2)
- 3. HBSE (8 units)

SW 604A.Human Behavior in the Social Environment I (4)SW 604B.Human Behavior in the Social Environment II (4)

- 4. Research (8 units)
  - SW 612. Social Work Research I (4)
  - SW 613. Social Work Research II (4)
- 5. Field (12 units) SW 608A. Field Work (4) SW 608B. Field Work (4) SW 608C. Field Work (4)
- 6. Four units of electives, approved by advisor if taken outside the department.

#### Advanced Year (38 units)

- 1. Research (4 units) SW 625A. Research Project (2) SW 625B. Research Project (2)
- 2. Field (12 units)
  - SW 608D. Field Work (4) SW 608E. Field Work (4)
  - SW 608E. Field Work (4) SW 608F. Field Work (4)

- 3. Advanced Practice Courses (20 units)
  - Micro Practice SW 645. Social Work Advanced Micro Practice I (4) SW 646. Social Work Advanced Micro Practice II (4) SW 647. Social Work Advanced Micro Practice III (2) Macro Practice SW 655. Social Work Advanced Macro Practice I (4) SW 656. Social Work Advanced Macro Practice II (4) SW 657. Social Work Advanced Macro Practice II (2) Integrative Seminar (2 units)

4. Integrative Seminar (2 units)

SW 660. Advanced Practice Integrative Seminar (2)
 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 and is carried out in the field setting. It must be on a social work practice 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**

#### 590. Special Topics

Special topics in social work. May be repeated for credit with consent of instructor as topics change. Prerequisite: junior, senior or graduate standing. (4 units)

#### 595. Independent Study

Special topics involving library and/or field research. May be repeated for credit. Prerequisite: consent of instructor. (1 to 4 units)

#### Graduate/Postbaccalaureate

May not be taken by undergraduate students.

#### 602. Foundation Micro Practice

Introduction to generalist model of practice with individuals, families and groups, comparative theories of micropractice, introductory intervention skills. Prerequisites: classified graduate standing in the MSW program and consent of department.

- A. I: Overview of generalist model and history (4 units)
- B. II: Comparative theories and models. Prerequisite: SW 602A. (4 units)
- C. III: Introductory intervention skills. Prerequisite: SW 602B. (2 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. I: Birth Through Adolescence. (4 units)
- B. II: Adulthood and Aging. Prerequisite: SW 604A. (4 units)

#### 606. Foundation Macro Practice

Introduction to generalist model of practice with organizations and communities including policy practice in both arenas. Theories of power and leadership. Introductory skills in task groups, leadership and collaboration. Prerequisites: classified graduate standing in the M.S.W. program and consent of department.

- A. I: Overview of generalist model and history. (4 units)
- B. II: Practice theory and models. Prerequisite: SW 606A. (4 units)
- C. III: Introductory intervention skills. Prerequisite: SW 606B. (2 units)

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#### 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)

#### 617. Social Work with People with Disabilities

Theories, practice, models of service delivery, and ethical and legal issues related to social work interventions with people with disabilities. (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)

#### 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, fund-raising, public relations, and fiscal and human resources. Prerequisite: classified graduate standing in the MSW program or consent of instructor. (4 units)

#### 627. 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 604C and 627. Prerequisites: SW 604A, 604B and consent of department. (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)

#### 480 / Social Work

#### 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)

#### 638. Public Child Welfare: Policy and Practice

Public child welfare services and issues from an advanced generalist perspective. Prepares social work students for evidence-based, culturally competent, family-focused, strength-based, and outcome-oriented child welfare practice. (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)

#### 645. Social Work Advanced Micro Practice I

Theories and models of practice learned in Foundation year curriculum are applied to the acquisition of practice skills that can be applied to work with individuals, groups and families within specific social work practice settings. Formerly SW 640. Prerequisites: completion of Foundation courses and consent of department. (4 units)

#### 646. Social Work Advanced Micro Practice II

Models of practice relating to skills and competencies such as case management, inter-agency collaboration and advanced multi-system assessment are addressed. Prerequisites: SW 645 and consent of department. (4 units)

#### 647. Social Work Advanced Micro Practice III

Social work practice with individuals, families and groups in specific populations commonly served by social workers. This includes an understanding of the various roles a social worker might play with this client population including, therapist, case manager, medication manager, protective services worker, substance abuse specialist, researcher, educator, etc. Prerequisites: SW 646 and consent of department. (2 units)

#### 655. Social Work Advanced Macro Practice I

Theories and models of community practice and organizational/ agency development that have been learned in the Foundation year are applied to the development of specific skills while working with organizations/agencies and communities in social work settings. This includes social planning, community development, political advocacy, and social action. Formerly SW 650. Prerequisites: completion of Foundation year courses and consent of department. (4 units)

#### 656. Social Work Advanced Macro Practice II

Strategies for organizational and community change including policy practice in both organizational/agency and community settings, coalition building, program development, budgeting, grant writing and interagency networking. Formerly SW 651. Prerequisites: SW 655 and consent of department. (4 units)

#### 657. Social Work Advanced Macro Practice III

Leading organizational/agency development and change. Social work roles addressed include supervisor, trainer/mentor, team leader and program evaluator. Formerly SW 652. Prerequisites: SW 656 and consent of department. (2 units)

#### 660. Advanced Practice Integrative Seminar

Integration of content learned in the micro and macro sequences through the use of case studies and a seminar model of learning. Prerequisites: SW 645, 646 655, and 656, current enrollment in SW 647 and 657 and 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. Continuous Enrollment for Graduate Candidacy Standing

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. See Page 331, 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)

#### 999. Graduate Comprehensive Examination

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. Prerequisites: advancement to candidacy, approval of department, completion of course work in the master's program and in good academic standing. Required for the Pupil Personnel Services Credential, Social Work only. (0 units)

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## SOCIOLOGY

#### **Department of Sociology**

Social and Behavioral Sciences Building, Room 327 (909) 537-5541 http://csbs.csusb.edu/sociology/

The following course is offered in support of graduate degree programs offered at this university.

#### COURSE OFFERING 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) 482 /

# SPANISH

#### Master of Arts in Spanish

Spanish Language Teaching

Hispanic Literature, Linguistics and Civilization

#### Department of World Languages and Literatures

University Hall, Room 314

(909) 537-5847 http://flan.csusb.edu/

COORDINATOR Daniel Whitaker

#### M.A. IN SPANISH

#### Requirements (45 units)

The M.A. in Spanish focuses on the strengthening of the knowledge of Spanish teachers as well as intensive study literature, linguistics, and culture for those students who will be continuing their advanced studies. The degree is also appropriate for those students seeking employment in the public or private sector in positions that serve the Latino community or require knowledge of Spanish at an advanced level.

#### 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 classification in the program are:

- 1. Completion of an undergraduate major in Spanish from an accredited institution consisting of at least 30 semester units, or 45 quarter units, or equivalent, of upper-division course work;
- A cumulative undergraduate grade point average of at least 3.0 ("B"), and a minimum grade point average of 3.0 in all Spanish classes;
- 3. Good standing at the last college attended (verified by student transcripts, see below);
- 4. Three letters of recommendation;
- 5. A one- to two-page statement describing the student's professional goals in the area of Spanish;
- 6. Submission of official transcripts from all previous college work to the department's graduate committee;
- Verification of oral and written proficiency in Spanish at the ACTFL level of advanced mid or higher as determined by an entrance exam given by the Department of World Languages and Literatures, CSUSB. (This requirement is waived for candidates who received their B.A. in Spanish from CSUSB within the last five years of application to the M.A. in Spanish.);
- 8. Students who do not meet the above criteria may be admitted as conditionally classified graduate students per approval by the Graduate Committee and may be required to take additional upper-division Spanish undergraduate courses. Students who do not possess a B.A. in Spanish (but have a degree in another discipline) may also be required to take selected upper-division undergraduate courses (earning a minimum grade of "B" (3.0) in each assigned class);
- Completion of the graduate entrance writing examination through completion of ENG 306 or equivalent course; or completion of the Writing Requirement Exemption Examination

#### Advancement to Candidacy

- To be advanced to candidacy, the student must have:
- 1. Achieved classified status;
- 2. Completed SPAN 606 with a grade of "B" or better;
- Completed a total of 16 to 20 quarter units of classes with an overall grade point average of 3.0 ("B").

#### **Requirements for Graduation**

- 1. Advancement to candidacy;
- Successful completion of 45 quarter units of acceptable graduate work with at least 35 units completed at CSUSB. All course work taken at other institutions must be approved by the Graduate Committee;
- 3. An overall GPA of at least 3.0 ("B") in all graduate-level course work;
- Successful completion of SPAN 697 (based on core courses in either option as well as a reading list prepared by the Department of Foreign Languages and Literatures);
- 5. Submission of appropriate documentation verifying knowledge of a language other than English or Spanish at either the 150 or third quarter (or equivalent) level.
- 6. The graduation writing requirement is met upon the successful completion of SPAN 697.

#### **Degree Requirements (45 units)**

#### Spanish Language Teaching

Designed for Spanish teachers at the elementary, secondary, and community college level, this track provides students with a strong background in applied linguistics and pedagogical theory, as well as exposure to the literatures, cultures, and the language of the of the Spanish-speaking world.

Core Courses (29 units)

- 1. SPAN 606. Methodology of Graduate Study (4)
- 2. SPAN 608. History of the Spanish Language (4)
- 3. SPAN 615. Second Language Acquisition in Spanish (4)
- 4. SPAN 620. Spanish Linguistics (4)
- 5. Twelve units taken in education courses which may be selected from the following,

	EDCI 620.	School Curriculum (4)
	EELB 606.	Theory and Practice in Teaching Bilingual
		Students (4)
	EELB 611.	Spanish Children's Literature for the Bilingual
		Classroom (4)
	EELB 612.	Social and Cultural Contexts for School
		Learning (4)
	EELB 625.	Curriculum and Materials for the Bilingual and
		ESL Classroom (4)
	ESEC 441.	Secondary School Curriculum and
		Instruction II (4)
	EESL 536.	Crosscultural Teaching (4)
6.	SPAN 697.	Comprehensive Examination (1)

Electives (16 units)

1. Sixteen units of electives of SPAN graduate-level courses in literature, language, and civilization.

#### Hispanic Literature, Linguistics, and Civilization

Designed for students who wish to pursue an in-depth study of Spanish, Spanish American, and Latino literatures along with Spanish linguistics, and to prepare students for further advanced study.

Core Courses (29 units):

- 1. SPAN 606. Methodology of Graduate Research (4)
- 2. SPAN 608. History of the Spanish Language (4)
- 3. SPAN 610. Theory and Practice of Literary Criticism in Spanish (4)
- 4. SPAN 615. Second Language Acquisition in Spanish (4)
- 5. SPAN 620. Spanish Linguistics (4)
- 6. SPAN 625. Spanish Peninsular Literature and Culture (4)
- 7. SPAN 630. Spanish-American Literature and Culture (4)
- 8. SPAN 697. Comprehensive Exam (1)

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Electives (16 units)

 Sixteen units of electives chosen from Spanish 500- and 600level courses. A maximum of eight units from SPAN 515 or 516 may be counted towards this elective category.

#### COURSE OFFERINGS IN SPANISH (SPAN)

#### **Upper Division**

#### 515. Seminar in Spanish Peninsular Literature, Culture or Film

Advanced study of the literature and culture of Spain. May be repeated as topics change. Prerequisites: SPAN 302, 318, 395; one class from the SPAN 370 series; and one class from the SPAN 440 series.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Culture (4 units)
- G. Film (4 units)

#### 516. Seminar in Spanish American Literature, Culture or Film

Advanced study of the literature and culture of Spanish America. May be repeated as topics change. Prerequisites: SPAN 302, 318, 395; one class from the SPAN 370 series; and one class from the SPAN 440 series.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Culture (4 units)
- G. Film (4 units)

#### Graduate/Postbaccalaureate

May not be taken by undergraduate students.

#### 606. Methodology of Graduate Study

Introduction to bibliography, research techniques, professional discourse styles, and basic critical approaches. This course is a prerequisite to all 600-level courses in the M.A. in Spanish. Prerequisite: graduate standing or consent of the graduate committee. (4 units)

#### 608. History of the Spanish Language

Diachronic study of the development of Spanish from Latin to modern varieties of the language. In-depth analysis of phonological, morphological, and syntactic changes related to relevant events of Spanish and Spanish American history. Formerly SPAN 605. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee. (4 units)

#### 610. Theory and Practice of Literary Criticism in Spanish

Analysis and application of methods of contemporary literary theory and criticism employing principal texts from Spanish and Spanish-American literature. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee. (4 units)

#### 615. Second Language Acquisition in Spanish

Study and application of current techniques and approaches in second language acquisition, including outcomes assessment. Prerequisites: graduate standing, SPAN 320 or equivalent and SPAN 606; or consent of the graduate committee. (4 units)

#### 620. Spanish Linguistics

Intensive study of contemporary issues in Spanish linguistics. A maximum of 12 units may be applied toward the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Sociolinguistics of the Hispanic World (4 units)
- B. Spanish Dialectology (4 units)
- C. Spanish in the United States (4 units)
- D. Seminar in Spanish Phonetics and Phonology (4 units)

#### 625. Spanish Peninsular Literature and Culture

Intensive study of significant works or a principal author from Spanish Peninsular literature and culture. A maximum of 12 units may be applied toward the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Authors (4 units)
- F. Culture (4 units)

#### 630. Spanish-American Literature and Culture

Intensive study of significant works or a principal author from Spanish-American Literature and Culture, or Latino cultures. A maximum of 12 units may be applied toward the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Prose Fiction (4 units)
- B. Poetry (4 units)
- C. Drama (4 units)
- D. Essay (4 units)
- E. Author (4 units)
- F. Latino Cultures (4 units)

#### 650. The Spanish Golden Age

Advanced study of the literature of the Spanish sixteenth- and seventeenth centuries. A maximum of eight units may be applied to the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Don Quixote (4 units)
- B. Drama (4 units)
- C. Prose (4 units)
- D. Poetry (4 units)

#### 651. Studies in Spanish American Literature

Advanced study of the literature of Spanish America from the colonial period to the present. A maximum of eight units may be applied to the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Colonial (4 units)
- B. Nineteenth Century (4 units)
- C. Twentieth Century (4 units)
- D. Contemporary Women Writers (4 units)
- E. Regional and Indigenous Literatures (4 units)

#### 652. Seminar in Spanish-American Civilization

Advanced study of an important contemporary aspect of Spanish-American culture and literature. A maximum of eight units may be applied to the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Surrealism (4 units)
- B. Post-modernist Literature (4 units)
- C. African Influences in Literature (4 units)
- D. The Novel of the Dictator (4 units)

#### 484 / Spanish

- E. The Neo-Picaresque Novel (4 units)
- F. Neo-Colonialism (4 units)
- G. Contemporary Film (4 units)

## 653. Contemporary Chicano/Latino Literature in Spanish

Intensive analysis of works by Chicano and Latino writers in Spanish in the United States. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee. (4 units)

#### 654. Modern Spanish Peninsular Literature

Advanced study of the literature of the nineteenth and twentieth centuries in Spain. A maximum of eight units may be applied to the M.A. in Spanish. Prerequisites: graduate standing and SPAN 606, or consent of the graduate committee.

- A. Nineteenth Century (4 units)
- B. Twentieth Century (4 units)

C. Contemporary Women Writers (4 units)

#### 655. Seminar in Applied Linguistics

Study and discussion of current issues in first and second language acquisition and instruction, as well as topics in the linguistic contrast between Spanish and English. Prerequisites: SPAN 606, 615, and graduate standing; or consent of the graduate committee. (4 units)

# 656. Seminar in Spanish Semantics and Pragmatics

Study of noun and verbal systems of the Spanish language, as found in a variety of discourses, and analysis of forms and functional meaning in social contexts. Prerequisites: graduate standing and SPAN 606, or consent of graduate committee. (4 units)

#### 697. Comprehensive Examination

Written examination covering Spanish linguistics, peninsular literature and culture, Spanish-American literature and culture, and Latino cultures in the United States. Examination is based on the core of required classes for the M.A. in Spanish as well as a reading list. Student must pass exam and any retests within one year of completion of the core and elective courses. Exam may be repeated once, and only the sections failed will be retested. Prerequisite: must be taken in the last quarter before graduation. (1 unit)

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## **THEATRE ARTS**

#### Master of Arts in Theatre Arts

#### **Department of Theatre Arts**

Performing Arts Building, Room 111 (909) 537-5876 http://cal.csusb.edu/Depts/TheatreArts/

**FACULTY:** Michelle Ebert, Kathryn Ervin (Interim Chair), Lee Lyons, Margaret Perry, William Peterson, Thomas Provenzano, Johanna Smith

#### M.A. IN THEATRE ARTS

#### Requirements (45 units)

The M.A. in Theatre Arts is designed for students who wish to apply advanced theories, methodologies, and technologies of theatre in their careers as theatre artists and educators, and for those who wish to advance from this degree to further graduate work. The program is unique in its flexibility, wide range of theatre education opportunities, and specialized faculty. Students are required to develop focused programs of study.

#### Admission to the Program

Students must fulfill all the general requirements for admission to graduate studies at this university. Applications for admission to the program should be sent to the department graduate coordinator and must include:

- A copy of the undergraduate transcript indicating graduation with a bachelor's degree from an accredited college or university and theatre courses completed;
- 2. Three letters of recommendation attesting to academic aptitude and creative accomplishments;
- 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.

#### Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

- 1. Selected an advisor with the consent of the faculty member and the approval of the graduate coordinator;
- Formed a three member advisory committee prior to completion of 16 units;
- Secured approval from student's advisory committee and graduate coordinator of a course of study, prior to completion of 20 units.

#### **Requirements for Graduation**

- 1. Advancement to candidacy;
- A minimum of 45 quarter units of acceptable graduate level work with no fewer than 32 of these units at the 500- or 600-level;
- A grade point average of at least 3.0 ("B") in all graduate course work and grades of "C" (2.0) or better in all courses in the program;
- A capstone experience of a project or internship approved by the student's advisory committee and graduate coordinator;
- 5. Successful completion of TA 699 which also meets the department's graduation writing requirements.

#### **Degree Requirements (45 units)**

- 1. TA 600. Research Methods in Theatre (4)
- 2. Eight units chosen from:
  - TA 602. Seminar in Dramatic Literature for Stage and Film (4)
  - TA 633. Seminar in Theory and Criticism (4)
  - TA 650. Seminar in Dramatic Production (4)

- Four units chosen from: TA 620. Applied Theatre Practicum (1-8) for a total of (4)
- TA 683. Advanced Studies in Theatre for Youth (4) 4. Nine units chosen from:
- TA 695. Graduate Project (1-5) TA 696. Graduate Internship (1-5)

Electives (8 units)

1.	Eight units cho	osen from a single area of concentration:
	DAN 450.	Choreography (3)
	DAN 481.	Creative Dance in the Classroom (4)

TA 401.	History of Musical Theatre (4)
TA 445.	The Camera Eye (4)
TA 446.	Directing II (3)
TA 462.	African-American Theatre and Drama (4)
TA 463.	Asian Theatre (4)
TA 464.	Theatre in the Post-Colonial World (4)
TA 466.	Issues in Gay, Lesbian, Bisexual, and
	Transgender Theatre (4)
TA 468.	Chicana/o Latina/o Theatre and Drama (4)
TA 481.	Creative Drama in the Classroom (3)
TA 483.	Children's Theatre (4)
TA 484.	Reader's Theatre in the Classroom (3)
TA 486.	Puppetry in the Classroom (3)

Advanced Electives (8 units)

1.	Eight units in a	single area of concentration chosen from:
	DAN 580.	Advanced Creative Dance (4)
	ENG 511.	Creative Writing in Children's Literature (4)
	ENG 535.	Multicultural Images in Children's Literature (4)
	TA 505.	Criticism of Theatre in Performance (4)
	TA 510.	Studies of Major Figures and Genres (4)
	TA 535.	Independent Project (1-4)
	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)
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Culminating Experience (4 units)

1. TA 699. Thesis (4)

## COURSE OFFERINGS IN THEATRE ARTS (TA)

#### **Upper Division**

#### 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

Advanced study of a selected theatre topic. 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 six units may apply toward the major, a total of 12 units may apply toward graduation. Prerequisite: consent of instructor. (1 to 4 units) 7

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#### 486 / Theatre Arts

#### 555. Independent Study

Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. A total of six 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. (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 processoriented 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/Postbaccalaureate

May not be taken by undergraduate students.

#### 600. Research Methods in Theatre

A survey of methods commonly used in theatrical criticism and their application to research questions including the systematic collection of bibliographic, dramaturgical and aesthetic information to formulate theses, organize and write research papers, or to develop conceptual approaches to production. (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 ENG 602. Students may not receive credit for both.) (4 units)

#### 620. Applied Theatre Practicum

Advanced study and application of techniques and technologies used in the creation of theatre. (1 to 8 units)

#### 633. Seminar in Theory and Criticism

Major theories which have influenced and motivated theatre practice in western and non-western civilization throughout its development, with an emphasis on the relationship between theory and theatrical performance. (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)

#### 683. Advanced Studies in Theatre for Youth

Advanced study of a selected theatre topic, including but not limited to: reader's theatre, theatre outreach, Theatre-in-Education (T.I.E.), theatre for social change, playwriting for and with youth, and puppetry. May be repeated for credit as topics change. Prerequisite: consent of instructor. (4 units)

#### 695. Graduate Project

Advanced individual project on a specific topic relevant to the student's program of study. Done under direct supervision. Prerequisite: advancement to candidacy. (1 to 5 units)

#### 696. Graduate Internship

Supervised internship experience with a theatre organization, such as a youth theatre, youth outreach program, professional theatre, or other appropriate arts agency. Prerequisite: advancement to candidacy. (1 to 5 units)

#### 699. Thesis

Independent graduate research in theatre arts culminating in a written thesis. (4 units)

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# FACULTY 2006-2007

#### **Paul Dixon**

Professor of Physics Outsanding Professor, 2006

#### 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

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Lecturer in Mathematics B.A. 1972, University California at Santa Barbara; M.A. 2003, California State University, San Bernardino.

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Lecturer in Education B.S. 1973, M.S. 1976, Southern Connecticut State University.

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Associate Professor of English B.A. 1988, University of California, Los Angeles; M.A. 1991, Ph.D. 1996, Yale University.

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Lecturer in Social Work B.A. 1988, M.S.W. 1989, New Mexico Highlands University.

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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.

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#### C. Mo Bahk, 2001

Associate Professor of Communication Studies B.A. 1980, Yonsei University, Seoul, Korea; M.A. 1983/1990, State University of New York, Albany; Ph.D. 1994, Michigan State University.

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Professor of Education B.A. 1978, Wellesley College; M.A. 1988, San Jose State University; M.A., Ed.S., Ph.D. 1994, Stanford University.

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Professor of Anthropology B.A. 1972, University of Vermont; A.M. 1974, Ph.D. 1979, Harvard University.

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Assistant Professor of Sociology B.A. 1993, Truman State University; M.S. 1995, Ph.D. 2002, Mississippi State University.

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#### Frances F. Berdan, 1973

Professor of Anthropology B.A. 1965, M.A. 1967, Michigan State University; Ph.D. 1975, University of Texas.

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Assistant Professor of Criminal Justice B.A. 1994, Simon Frazier University; M.A. 1996, Ph.D. 2000, Rutgers University.

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Professor of Management B.A. 1958, M.A. 1960, University of Colorado; Ph.D. 1968, Indiana University.

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#### Mary Boland, 2001

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#### Richard J. Botting, 1982

Professor of Computer Science B.Tech. 1967, Ph.D. 1972, Brunel University, England.

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Professor of Biology B.S. 1975, University of California, Irvine; Ph.D. 1978, University of Essex, United Kingdom.

#### Karen Dill Bowerman, 2004

Professor of Management; Dean, College of Business and Public Administration B.A. 1969, Wichita State University; M.A. 1970, Kansas University; Ph.D. 1979, Texas A&M University.

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#### Diane K. Brantley, 2003

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#### Klaus R. Brasch, 1990

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#### Susan J. Brotherton, 1990

Professor of Education B.S. 1975, California State Polytechnic University; M.A. 1989, California State University, San Bernardino; Ph.D. 1995, Claremont Graduate University.

#### James Brown, 1989

Professor of English B.A. 1980, San Francisco State University; M.F.A. 1986, University of California, Irvine.

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#### Frances S. Coles, 1978

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- Associate Professor of Art
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Lecturer in English B.A. 1983, M.A. 1991, California State University, San Bernardino.

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Assistant Professor of Information and Decision Sciences B.A. 1992, M.B.A. 1993, California State University, San Bernardino; Ph.D. 2002, Claremont Graduate School.

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Professor of Chemistry and Biochemistry B.S. 1984, Duke University; Ph.D. 1991, University of Texas, Austin.

#### Robert E. Cramer, 1978

Professor of Psychology B.A. 1973, M.A. 1975, Trinity University; Ph.D. 1978, University of Oklahoma.

#### Richard A. Crane, 2005

Assistant Professor of Music B.M. 2000, M.M. 2003, Brigham Young University; D.M.A. 2005, Michigan State University.

#### Cynthia A. Crawford, 1996

Professor of Psychology B.A. 1985, Washington University; M.A. 1989, Ph.D. 1992, University of Kentucky.

#### Samuel M. Crowell, 1987

Professor of Education B.A. 1971, Carson-Newman College; M.S. 1975, Radford University; Ed.D. 1992, University of Virginia.

#### Susan Daniels, 2000

Associate Professor of Education B.A. 1980, Barat College; M.A. 1990, Northeastern Illinois University; Ph.D. 1995, University of Wisconsin-Madison.

#### Ellen Daroszewski, 2001

Associate Professor of Nursing B.S. 1985, University of California, Los Angeles; B.S.N. 1987, Consortium of California State University; M.S.N. 1990, California State University, Dominguez Hills; Ph.D. 1996, University of California, Los Angeles.

#### Matthew Davidson, 2001

Assistant Professor of Philosophy B.A. 1994, University of Illinois; M.A. 1997, Ph.D. 2000, University of Wisconsin.

#### Thomas D. Davis, 2002

Assistant Professor of Social Work B.A. 1976, M.S.W. 1998, California State University, Long Beach; Ph.D. 2001, University of Washington.

#### Joelie De La Torre, 2004

Associate Professor of Public Administration B.A. 1993, California State University, Long Beach; M.A. 1995, Ph.D. 2000, Northern Arizona University.

#### Juan Delgado, 1987

Professor of English; Interim Chair, Department of Communication Studies B.A. 1983, California State University, San Bernardino; M.F.A. 1985, University of California, Irvine.

#### Foad Derakhshan, 1985

Professor of Management B.S. 1973, Tehran College of Business Sciences; M.B.A. 1976, Ph.D. 1979, Louisiana State University.

#### Khamla Dhouti, 2002

Assistant Professor of World Languages and Literatures B.A. 1991, Washington and Lee University; M.A. 1994, Middleburg College; Ph.D. 2002, University of Texas at Austin.

#### Lynne Diaz-Rico, 1989

Professor of Education B.A. 1968, University of Pittsburgh; M.A. Ed. 1977, Arizona State University; Ed.D. 1988, InterAmerican University of Puerto Rico.

#### Risa E. Dickson, 1991

Professor of Communication Studies; Associate Dean, College of Arts and Letters B.A. 1987, California State University, Northridge; M.A. 1990, Ph.D. 1991, University of Southern California.

#### Cheryl A. Dipretoro, 2002

*Lecturer in Nursing* B.S. 1975, State University of New York at Buffalo; M.S. 1991, University of California, Los Angeles.

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Lecturer in Nursing B.S.N. 1972, M.S.N. 1987, Adventist University of the Philippines.

#### John R. Dorocak, 1991

Professor of Accounting and Finance A.B. 1973, Xavier University, Cincinnati, Ohio; J.D. 1977, Case Western Reserve University, Cleveland, Ohio; LLM (Tax) 1990, University of Florida.

#### Donald A. Drost, 1987

Professor of Management B.A. 1975, M.B.A. 1977, California State University, Fullerton; Ph.D. 1984, Virginia Polytechnic Institute and State University.

#### Robert W. Dunham, 1996

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.

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Assistant Professor of Mathematics M.Sc. 1997, Moscow State Institute of Electronics and Mathematics; M.Sc. 1998, Ph.D. 2002, University of Louisiana at Lafayette.

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#### 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; Interim Chair, Department of Theatre Arts B.F.A. 1978, Wayne State University; M.F.A. 1980, Illinois State University.

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Coordinator of Placement Services, Career Development Center

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Professor of Information and Decision Sciences B.A. 1976, University of Tehran; M.S. 1979, Ph.D. 1986, Oklahoma State University.

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Professor of Mathematics B.S. 1987, University of Sarajevo, Sarajevo, Bosnia and Herzogovina; Ph.D. 1992, Michigan State University.

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Professor of Sociology B.A. 1978, Loyola Marymount University; M.A. 1981, M.A. 1983, School of International Training; Ph.D. 1995, Northwestern University.

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Professor of Geological Sciences; Provost and Vice President for Academic Affairs B.A. 1962, City College of New York; M.S. 1964, University of Tulsa; Ph.D. 1969, Syracuse University.

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Professor of Mathematics B.S. 1976, M.S. 1978, Ph.D. 1989, Ben Gurion University.

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Assistant Professor of History B.A. 1988, University of California, Berkeley; M.A. 1992, Ph.D. 1997, Harvard.

#### Barbara M. Flores, 1987

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#### Mary Fong, 1992

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#### Joan E. Fryxell, 1989

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#### Larry K. Gaines, 1998

Professor of Criminal Justice; Chair, Department of Criminal Justice

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#### George M. Georgiou, 1992

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#### Roger Harthrong, 2003 Lecturer in Nursing

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#### John W. Heeren, 1971

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#### Brian Heisterkamp, 2001

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Professor of Psychology B.S. 1967, Ph.D. 1972, Adelphi University.

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Professor of Art B.A. 1966, California State University, Long Beach; M.F.A. 1968, Cranbrook Academy of Art.

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Professor of Psychology B.S. 1976, San Diego State University; M.S. 1979, University of California, Davis; Ph.D. 1984, Michigan State University.

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Professor of English; Associate Vice President of Assessment and Planning, and Dean of Graduate Studies B.A. 1971, M.A. 1973, Ph.D. 1985, University of California, Riverside.

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Professor of Management B.A. 1977, M.A. 1980, California State University, Fullerton; Ph.D. 1992, Claremont Graduate University.

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Assistant Professor of Geography and Environmental Studies B.A. 1993, University of Western Ontario; M.A. 1996, Southwest Texas State University; Ph.D. 2004, Clark University.

#### Karen Kolehmainen, 1988

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#### Leslie M. Kong, 1990

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#### Barbara D. Larrivee, 1988

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#### Robin Larsen, 1995

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#### W. Britt Leatham, 1987

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#### Amy S. C. Leh, 1998

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#### Brian Levin, 1999

Associate Professor of Criminal Justice B.A. 1989, University of Pennsylvania; J.D. 1992, Stanford Law School.

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#### George McGinnis, 1989

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Associate Professor of Philosophy B.A. 1970, University of Wisconsin; Ph.D. 1982, University of Minnesota

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Professor of Computer Science B.A. 1979, Holy Cross; M.S. 1982, Worcester Polytechnic Institute; Ph.D. 1985, Syracuse University.

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#### Ruth A. Norton, 1985

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Professor of Accounting and Finance B.A. 1972, University of Reading, Berkshire, England; M.Phil. 1981, Ph.D. 1985, Columbia University.

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#### Barbara A. Quarton, 1999

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#### Elisabeth K. Ryland, 1986

Professor of Management; Associate Dean for Student Affairs, College of Business and Public Administration B.A. 1965, University of Copenhagen, Denmark; M.A. 1965, M.B.A. 1980, Florida State University; Ph.D. 1986, University of North Carolina at Chapel Hill.

#### Ralph H. Salmi, 1990

Professor of Political Science B.A. 1978, California State University, San Bernardino; M.A. 1981, Ph.D. 1990, University of California, Riverside.

#### Tonia San Nicolas-Ricco, 2004

Lecturer in Information and Decision Sciences B.A. 1997, M.B.A. 2001, California State University, San Bernardino.

#### Ruth A. Sandlin, 1988

Professor of Education; Chair, Department of Educational Psychology and Counseling B.A. 1982, M.A. 1983, Ph.D. 1988, University of California, Riverside.

#### Rowena S. Santiago, 1990

Professor of Education; Director, Teaching Resource Center B.S. 1971, Philippine Normal College; M.A. 1985, Tokyo Gakugei University; Ed.D. 1990, University of Georgia.

#### Pedro Santoni, 1988

Professor of History; Chair, Department of History B.A. 1978, University of Notre Dame; J.D. 1981, University of Puerto Rico; Ph.D. 1987, El Colegio de Mexico.

#### John Sarli, 1983

Professor of Mathematics A.B. 1974, Brown University; Ph.D. 1984, University of California, Santa Cruz.

#### **Richard Savich, 2005**

Assistant Professor of Accounting and Finance B.S. 1964, M.S. 1967, Northern Illinois University; Ph.D. 1973, University of Illinois.

#### Joseph A. Scarcella, 1998

Professor of Education B.A. 1985, M.A. 1992, San Diego State University; Ph.D. 1997, University of Missouri-Columbia.

#### Christine M. Schalow, 1991

Professor of Accounting and Finance B.S. 1985, University of Wisconsin; M.S. 1987, St. Cloud State University; Ph.D. 1992, University of Arkansas.

#### David L. Schalow, 1991

Professor of Accounting and Finance; Chair, Department of Accounting and Finance B.B.A. 1976, M.B.A. 1978, University of Wisconsin-Madison; Ph.D. 1984, University of Arkansas.

#### Christine Scher, 2002

Assistant Professor of Psychology B.A. 1990, University of California, Los Angeles; Ph.D. 2000, University of California, San Diego.

#### Donna L. Schnorr, 1998

Professor of Education B.A. 1984, Flagler College; M.A. 1986, Boston University; Ph.D. 1998, George Mason University.

#### Pamela J. Schram, 1998

Associate 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.

#### Keith E. Schubert, 2002

Assistant Professor of Computer Science B.S. 1991, University of Redlands; M.S. 1992, University of California, Los Angeles; Ph.D. 2003, University of California, Santa Barbara.

#### 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.

#### 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.

Lisa Shamansky, 1989 Professor of Chemistry and Biochemistry 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.

#### Gary Sherwin, 2002

Assistant Professor of Education B.A. 1974, Colorado State University; M.A. 1987, Ph.D. 1995, University of California, Los Angeles.

#### Herbert P. Shon, 2004

Assistant Professor of Social Work B.A. 1987, California State University, Los Angeles; M.S.W. 1991, Ph.D. 2001, University of California, Los Angeles.

#### 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.

#### Shannon R. Siegel, 2005

Assistant Professor of Kinesiology B.A. 1989, University of California, Santa Cruz; M.A. 1995, University of Texas, Austin; Ph.D. 1999, Michigan State University.

#### A. I. Clifford Singh, 1984

Professor of Kinesiology B.S. 1973, M.S. 1974, Western Illinois University; Ph.D. 1977, University of Colorado.

#### **Brent Singleton, 2002**

Senior Assistant Librarian B.A. 1993, M.L.I.S. 2001, University of California, Los Angeles.

#### 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 Associate Professor of Biology B.S. 1988, Oregon State University; Ph.D. 1994, Duke University.

#### 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 and Biochemistry B.A. 1988, Wittenburg University, Ohio; Ph.D. 1994, Purdue University.

#### Laurie Smith, 2002

Assistant Professor of Social Work B.A. 1980, Michigan State University; M.S.W. 1990, University of Minnesota; Ph.D. 1999, University of California, Los Angeles.

#### 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.

#### Hosung So, 2002

Assistant Professor of Kinesiology B.S. 1993, M.S. 1995, Chug-Ang University, Seoul Korea; Ph.D. 2002, University of Nevada, Las Vegas.

#### Eva Marie Sorrell, 2005

Senior Assistant Librarian B.A. 1995, University of California, Riverside; M. of Library and Information Science 2001, University of California, Los Angeles.

#### 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

Associate 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

Professor of Chemistry and Biochemistry 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.

#### Traci A. Statler, 2002

Assistant Professor of Kinesiology B.A. 1990, University of North Carolina; M.A. 1994, California State University, Fullerton; Ph.D. 2001, University of Utah.

#### Joel A. Stein, 1991

Professor of Mathematics B.S. 1966, M.S. 1968, Rensselaer Polytechnic Institute; Ph.D. 1980, Harvard University.

#### 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.

#### Deborah E. Stine, 1999

Associate 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 Éducation 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.

#### Stanley L. Swartz, 1989

Professor of Education A.B. 1970, Findlay College; M.Ed. 1972, Ph.D. 1976, Bowling Green State University.

#### Dwight P. Sweeney, 1990

*Professor of Education* A.B. 1970, University of Notre Dame; M.A. 1971, Ph.D. 1981, University of Michigan.

#### Theodore Swigart, 2002

Counselor in Department of Psychological Counseling B.S. 1992, M.A. 1995, Sam Houston State University; Ph.D. 2000, University of Memphis.

#### Colleen R. Talbot, 1997

Associate 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 and Biochemistry B.Sc. 1979, Ph.D. 1982, University of Sheffield, England.

#### Mary Texeira, 1994

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; Associate Provost of Research B.S. 1972, Michigan State University; Ph.D. 1976, Florida State University.

#### Gerald R. Thrush, 1996

Associate Professor of Biology B.S. 1985, Saginaw Valley State University; Ph.D. 1990, Wayne State University.

#### Roy J. Thurston, 2003

Assistant Professor of Education B.Ed. 1985, M.Ed. 1997, Ph.D. 2000, University of Calgary.

#### Stephen G. Tibbetts, 2000

Associate Professor of Criminal Justice B.A. 1991, University of Florida; M.A. 1994, Ph.D. 1997, University of Maryland.

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#### Javier Torner, 1985

Professor of Physics; Director, Information Security Office B.S. 1978, J.P.M. Mexico; M.S. 1972, Ph.D. 1985, Illinois Institute of Technology.

#### Nena M. Torrez, 1996

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 Professor of Mathematics

B.A. 1984, Knox College; M.A. 1985, Ph.D. 1990, Columbia 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

Associate Professor of Psychology B.A. 1980, M.A. 1989, 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

Professor of Sociology B.A. 1986, M.A. 1988, Ph.D. 1991, University of California, Riverside.

#### Montgomery Van Wart, 2005

Professor of Public Administration; Chair of Department of Public Administration B.A. 1973, Franklin College, PA; M.A. 1981, Lewis & Clark College; Ph.D. 1990, Arizona State University.

#### Jill Vassilakos-Long, 1999

Senior Assistant Librarian B.A. 1990, Stanford; M.L.S. 1992, San Jose State University.

#### 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.

#### Caroline H. Vickers, 2004

Assistant Professor of English B.A. 1994, University of Georgia; M.S. 1997, Georgetown University; Ph.D. 2004, University of Arizona.

#### 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-Geothe 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.

Wenxiang Wang, 1994 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.

#### Daniel S. Whitaker, 1985

Professor of World 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 Associate Professor of Psychology B.A. 1988, University of California, Irvine; M.Ed. 1992, Chapman University; M.A. 1995, Ph.D. 1999, Purdue University.

#### Linda D. Wilkin, 2002

Assistant Professor of Kinesiology B.A. 1997, California State University, Sacramento; M.A. 1999, Ph.D. 2002, The Ohio State University.

#### Kimberlyn Williams, 2001

Associate Professor of Biology B.A. 1979, University of California, Davis; Ph.D. 1987, Stanford 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.

#### 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.

#### John M. Winslade, 2003

Associate Professor of Education B.A. 1973, M.A. 1990, University of Auckland; Ph.D. 2003, University of Maikato.

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#### 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.

#### Aurora Wolfgang, 1992

Professor of World Languages and Literatures: Coordinator, Women's Studies

B.A. 1984, University of California, Santa Cruz; M.A. 1986, Ph.D. 1993, New York University.

#### Eugene H. Wong, 1994

Professor of Psychology B.A. 1986, University of California, Los Angeles; M.A. 1989, Ph.D. 1991, University of California, Riverside.

#### Laura M. Woodney, 2005

Assistant Professor of Physics B.A. 1993, John Hopkins University; M.S. 1997, Ph.D. 2000, University of Maryland.

#### John Worrall, 1999

Associate 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; Chair, Department of Psychology B.A. 1967, Marietta College; M.S. 1977, Springfield College; Ph.D. 1987, Claremont Graduate University.

#### Randall L. Wright, 2003

Associate Professor of Education B.A. 1977, M.A. 1981, McGill University; Ph.D. 2001, University of Calgary.

#### David N. Yaqhoubian, 2003

Assistant Professor of History B.A. 1989, University of California, Santa Cruz; M.A. 1994, Ph.D. 2000, University of California, Berkeley.

#### Shumei Yang, 1997

Associate Professor of Chemistry and Biochemistry B.S. 1982, Zhengzhou University, P.R. China; Ph.D. 1991, Iowa State University.

#### Taewon Yang, 2002

Assistant Professor of Accounting and Finance B.S. 1993, Hankuk Aviation University; M.B.A. 1996, Ohio State University; Ph.D. 2002, University of Massachusetts.

#### Eri F. Yasuhara, 2000

Professor of World 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 B.A. 1969, California Baptist College; M.P.A. 1988, D.P.A. 1988, University of Southern California.

#### 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; Assistant Dean for Student Programs, College of Arts and Letters 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

Professor of Political Science B.A. 1988, California State University, San Bernardino; M.A. 1991, Ph.D. 1994, Michigan State University.

#### Xiwen Zhang, 1995

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.

#### Jun (Jake) Zhu, 2002

Assistant Professor of Information and Decision Sciences B.A. 1988, Hunan Educational Institute, China; M.A. 1991, University of Redlands; Ph.D. 1997, University of California, Riverside.

#### Jenny Zorn, 1989

Professor of Geography and Environmental Studies; Associate Provost, Academic Programs 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

Gene L. Andrusco Associate Professor of Accounting and Finance, Emeritus, 2002

## Elliott R. Barkan

Professor of History, Emeritus, 2002

#### Joe Bas Professor of World Languages and Literatures, Emeritus, 1992

David J. Bellis Professor of Public Administration, Emeritus, 2005

## Frank Benson

Professor of Accounting and Finance, Emeritus, 2001

#### **Anand Bhatia**

Assistant Professor of Information and Decision Sciences, Emeritus, 2001

#### Cynthia Bird

Professor of Accounting & Finance, Emeritus, 2004

Marty Bloomberg Librarian, Emeritus, 1994

Aubrey Bonnett Dean, College of Social and Behavioral Sciences, Emeritus, 1994

Mike Boorom Professor of Marketing, Emeritus, 2000

Edward J. Bostley Professor of Music, Emeritus 2003

**David Bourguin** Librarian, Emeritus, 2004

Michael R. Burgess Librarian, Emeritus, 2005

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Katharine Busch Associate Professor of Education, Emeritus, 1998

Renate Caine Professor of Education, Emeritus, 1999

John S. Chaney Professor of Management, Emeritus, 2003

C. Charles Christie Professor of Public Administration, Emeritus, 2004

Gloria A. Cowan Professor of Psychology, Emeritus, 2002

John H. Craig Professor of Chemistry and Biochemistry, Emeritus, 2005

James D. Crum Dean, College of Natural Sciences, Emeritus, 1992

David L. Decker Professor of Sociology, Emeritus, 2005

Esteban Diaz Professor of Education, Emeritus, 2004

**G. Keith Dolan** Professor of Education, Emeritus, 1991

Leo G. Doyle Professor of Art, Emeritus, 1971

Richard Eberst Professor of Health Science and Human, Emeritus, 2004

Stuart Ellins Professor of Psychology, Emeritus, 2004

Bertram H. Fairchild, Jr. Professor of English, Emeritus, 2005

Lanny B. Fields. Professor of History, Emeritus, 2004

Loren Filbeck Professor of Music, Emeritus, 2004

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

Bruce Golden Professor of English, Emeritus, 2004

Carol F. Goss Professor of Political Science, Emeritus, 1988

Joseph W. Gray Associate Professor of Education, Emeritus, 2000 Sue Greenfeld Professor of Management, Emeritus, 2005

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

Craig E. Henderson. Student Services Professional, Emeritus, 2004

Beverly L. Hendricks Dean, College of Arts and Letters, Emeritus, 2000

Linvol Henry Professor of Accounting & Finance, Emeritus, 2004

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

Irvin Howard Professor of Education, Emeritus, 2004

Sherry M. Howie Professor of Education, Emeritus, 2003

Dennis Ikenberry Professor of Computer Science, Emeritus, 2000

Harold A. Jambor Lecturer in Sociology, Emeritus, 1980

Kenneth Johns Professor of Education, Emeritus, 2004

Jorun Johns Professor of World 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

Julius D. Kaplan Professor of Art, Emeritus, 2003

Martha Kazlo Director, Counseling and Health, Emeritus, 2004

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

Guenther G. Kress Professor of Public Administration, Emeritus, 2005

Joan Kritzberg Professor of Management, Emeritus, 2000

Ellen Kronowitz Professor of Education, Emeritus, 2004

Kevin Lamude Professor of Communication Studies, Emeritus, 2004

Janice Layton Professor of Nursing, Emeritus, 2000

Robert A. Lee Professor of English, Emeritus, 1992

Michael LeMay Professor of Political Science, Emeritus, 2004

Steven M. Levy Professor of Management, Emeritus, 2000

Eldon Lewis Professor of Accounting and Finance, Emeritus, 2001

Roger Lintault Professor of Art, Emeritus, 2000

Ward M. McAfee Professor of History, Emeritus, 2002

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

Kenneth A. Mantei Professor of Chemistry and Biochemistry, Emeritus, 2005

Norton E. Marks Professor of Marketing, Emeritus, 2005

Carolyn Martin Professor of Kinesiology, Emeritus, 2004 Clark Mayo Professor of English, Emeritus, 2001

Thomas Meisenhelder Professor of Sociology, Emeritus, 2004

Steven Mintz Professor of Accounting and Finance, Emeritus, 2003

Kenton L. Monroe Professor of Psychology, Emeritus, 1988

Joseph R. Moran Professor of Art, Emeritus, 2003

Bernhardt L. Mortensen Associate Professor of Sociology, Emeritus, 1978

Richard Moss Professor of Economics, Emeritus, 2000

T. Patrick Mullen Professor of Education, Emeritus, 2002

Art Nelson Librarian, Emeritus, 1991

Frederick A. Newton Professor of Psychology, Emeritus, 2005

David H. Null Associate Professor of Health Science and Human Ecology, Emeritus, 2002

**C. Michael O'Gara** Professor of Physical Education, Emeritus, 1977

Walter Oliver Professor of World Languages and Literature, Emeritus 2001

Theron Pace Student Services Professional, Emeritus, 2003

Elinore H. Partridge Associate Professor of English, Emeritus, 2003

Mary G. Patterson Professor of Nursing, Emeritus, 1985

Gordon Patzer Professor of Accounting and Finance, Emeritus, 2004

Clifford T. Paynton Professor of Sociology, Emeritus, 1992

Stuart M. Persell Professor of History, Emeritus, 2002

John M. Pfau Professor of History, President, Emeritus, 1982

James C. Pierson Professor of Anthropology, Emeritus 2005

Lee Porter Dean of Extended Education, Emeritus, 1998

Reginald Price Professor of Kinesiology, Emeritus, 2005

Jerrold Pritchard Professor of Music, Emeritus, 2004

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James Rogers Professor of Management, Emeritus, 2001

Amanda Sue Rudisill Professor of Theatre Arts, Emeritus, 1997

Mireille G. Rydell Professor of World Languages and Literatures, Emeritus, 1988

Judith M. Rymer Professor of Education, Emeritus, 2002

Arthur Saltzman Professor of Marketing, Emeritus, 2000

Richard Saylor Professor of Music, Emeritus, 1991

Ed Schneiderhan Student Services Professional, Emeritus, 2005

Peter R. Schroeder Professor of English, Emeritus, 2003

John Scribner Professor of Accounting & Finance, Emeritus, 2004

Robert Senour Professor of Education, Emeritus, 2000

David Shichor Professor of Criminal Justice, Emeritus, 1997

Kent Schofield Professor of History, Emeritus, 2001

Hossein Shalchi Professor of Accounting & Finance, Emeritus, 2004

William L. Slout Professor of Theatre Arts, Emeritus, 1992

Alexander Sokoloff Professor of Biology, Emeritus, 1990

Gordon E. Stanton Professor of Education, Emeritus, 1988

Helena Villacres Stanton Associate Professor of Education, Emeritus, 1990

Robert G. Stein Professor of Mathematics, Emeritus, 2004

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 Thygerson Professor of Accounting and Finance, Emeritus, 2000

John Tibbals Librarian, Emeritus, 1999 Thomas C. Timmreck Professor of Health Science and Human Ecology, Emeritus, 2003

Arthur J. Townley Professor of Education, Emeritus, 1999

Michael Trubnick Associate Professor of Accounting and Finance, Emeritus, 2003

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

Brian Watts Professor of Public Administration, Emeritus, 2004

L. Curtis Westbrook, Jr. Professor of Accounting & Finance, Emeritus, 2004

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

Alvin Wolf Professor of Education, Emeritus, 2002

Don Woodford Professor of Art, Emeritus, 2001

Donna M. Ziebarth Associate Professor of Nursing, Emeritus, 1994

### **Special Appointments**

### Adrian Dumitrescu, 2002

Studio Music Instructor B.M., M.M. Loma Linda University.

### Nancy Glen, 2004

Studio Music Instructor B.S. Kent State University; M.M. 1996, University of Northern Colorado; D.M. 2 001, University of Colorado, Greely.

### 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.

### Gary Long, 1997

Studio Music Instructor B.M. 1995, University of Oregon; M.M. 1997, Juilliard School of Music.

### Ana Maria Maldonado, 2001

Studio Music Instructor B.M. 1971, Texas Tech University; M.M. 1975, University of Southern California.

### David Scott, 2002

Studio Music Instructor B.M. 1982, University of Iowa; M.M. 1986, D.M.A. 1998, University of Southern California.

### Rebecca Tomlinson, 2004

Studio Music Instructor B.M. 1996, University of Redlands; M.M. 2000, D.M.A. 2003, University of California, Los Angeles.

### Lisa Geering Tomoff, 2005

*Studio Music Instructor* B.M., Indiana University School of Music.

### Stewart Undem, 2004

Studio Music Instructor B.A. 2001, California Baptist University.

### 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.

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# APPENDIX

### Availability of Institutional and Financial Assistance Information

The following information concerning student financial assistance may be obtained from Roseanna Ruiz, associate director of financial aid, UH-151, University Hall, (909) 537-7800:

- A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at California State University, San Bernardino;
- For each aid program, a description of the procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;
- A description of the rights and responsibilities of students receiving financial assistance including federal Title IV student assistance programs, and criteria for continued student eligibility under each program;
- The satisfactory academic progress standards that student must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance;
- The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
- The terms of any loan received as part of the student's financial aid package, a sample loan repayment schedule, and the necessity for repaying loans;
- 7. The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
- The responsibility of California State University, San Bernardino for providing and collecting exit counseling information for all student borrowers under the federal loan programs; and
- The terms and conditions for deferral of loan payments for qualifying service under the Peace Corps Act, the Domestic Volunteer Service Act of 1973, or comparable volunteer community service. Information concerning the cost of attending California State Uni-

versity, San Bernardino is available from Roseanna Ruiz, acting director of financial aid, UH-151, University Hall, (909) 537-7800, 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, (909) 537-5162.

Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulations is available from Roseanna Ruiz, acting director of financial aid, UH-151, University Hall, (909) 537-7800.

Information regarding special facilities and services available to students with disabilities may be obtained from Beth Jaworski, interim director of Services to Students with Disabilities, Room 235, University Hall, (909) 537-5238.

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that CSUSB dedicates to its men's and women's teams may be obtained from Nancy Simpson, director of athletics, HP-108, (909) 537-5011.

Information concerning teacher preparation programs, including the pass rate on teacher certification examinations, may be obtained from the Teacher Education Office, (909) 537-5162. 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. Bob Miller, director of public safety, University Police, Room 125, (909) 537-5165.

Information concerning annual campus security report may be obtained from Mr. Bob Miller, director of public safety, University Police, Room 125, (909) 537-5165.

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from Ms. Helga Kray, acting assistant vice president, student affairs, University Hall, Room 231, (909) 537-5165.

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, (909) 537-5185.

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 the Judicial Affairs Officer, Office of the Vice President for Student Affairs, University Hall, Room 231, (909) 537-5185.

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 postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at http:// www.sss.gov.

### 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, includes 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 these requirements is available from the International Student Services Office, UH-235, (909) 537-5193.

# 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.

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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 68000-68090, 68120-68134 and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, Sections 41900-41916. This information can be viewed on the Internet by accessing the California State University's website at www.calstate. edu/GC/resources.html.

Generally, establishing California residence for tuition purposes requires a combination of physical presence and intent to remain indefinitely. An adult who, at least one full year prior to the residence determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residence for tuition purposes. A minor normally derives residence from the parent(s) with whom they reside with or most recently resided

Evidence demonstrating intent can vary from case to case and will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections; maintaining California vehicle registration and driver's license; maintaining active California bank accounts; filing California income tax returns and listing a Californa address on federal tax returns, owning residentail property or occupying or renting an apartment where permanent belongings are kept, maintaining active resident memberships in California professional or social organizations; and maintaining a permanent military address and home of record in California.

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 sections 68070-68084 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 419060 to 41906.5, and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts and most students who have attended three years of 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, 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 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.

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:

	initiation dates are.
Quarter	Determination Date
Fall	September 20
Winter	January 5
Spring	April 1
Summer	July 1
e residence	determination dates for the

The e four stages on Cal-State TEACH are as follows:

Stage 1	September 20
Stage 2	January 5
Stage 3	June 1
Stage 4	September 20

Students classified as non-residents may appeal a final campus decision within 120 days of notification by the campus. A campus residence classification appeal must be in writing and submitted to: The California State University, Office of General Counsel, 401 Golden Shore, 4th Floor, Long Beach, CA 90802-4210. The Office of General Counsel can either decide the appeal or send the matter back to the campus for further review.

Students incorrectly classified 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 or who no longer meet the criteria for an exception 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.

Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residence for tuition purposes in California between the time this information is published and the relevant residence determination date. Students are urged to review the statutes and regulations stated above.

### 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, 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. 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 for 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.

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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, grade level, enrollment status, degrees, honors and awards received, and the most recent previous educational agency or institution attended by the student. The above designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying information which the student requests not be released. Written objections should be sent to the office of the vice president for student 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 organi-

zations 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 Conduct

### §41301. Standards for Student Conduct

The university is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community must choose behaviors that contribute toward this end. Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences.

### **Student Responsibilities**

Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life.

### **Unacceptable Student Behaviors:**

The following behavior is subject to disciplinary sanctions:

- 1. Dishonesty, including:
  - a. Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
  - b. Furnishing false information to a University official, faculty member, or campus office.
  - c. Forgery, alteration, or misuse of a University document, key, or identification instrument.
  - d. Misrepresenting oneself to be an authorized agent of the University or one of its auxiliaries.
- Unauthorized entry into, presence in, use of, or misuse of University property.
- 3. Willful, material and substantial disruption or obstruction of a University-related activity, or any on-campus activity.
- 4. Participating in an activity that substantially and materially disrupts the normal operations of the University, or infringes on the

rights of members of the University community.

- Willful, material and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus University related activity.
- 6. Disorderly, lewd, indecent, or obscene behavior at a University related activity, or directed toward a member of the University community.
- Conduct that threatens or endangers the health or safety of any person within or related to the University community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.
- 8. Hazing, or conspiracy to haze, as defined in Education Code Sections 32050 and 32051:

"Hazing" includes any method of initiation or pre-initiation into a student organization, or any pastime or amusement engaged in with respect to such an organization which causes, or is likely to cause, bodily danger, physical harm, or personal degradation or disgrace resulting in physical or mental harm, to any student or other person attending any school, community college, college, university or other educational institution in this state; but the term "hazing" does not include customary athletic events or other similar contests or competitions.

A group of students acting together may be considered a 'student organization' for purposes of this section whether or not they are officially recognized. Neither the express or implied consent of a victim of hazing, nor the lack of active participation while hazing is going on is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.

- Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and University regulations) or the misuse of legal pharmaceutical drugs.
- 10. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and University regulations), or public intoxication while on campus or at a University related activity.
- 11. Theft of property or services from the University community, or misappropriation of University resources.
- 12. Unauthorized destruction, or damage to University property or other property in the University community.
- 13. Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus president) on campus or at a University related activity.
- 14. Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
- 15. Misuse of computer facilities or resources, including:
  - a. Unauthorized entry into a file, for any purpose.
  - b. Unauthorized transfer of a file.
  - c. Use of another's identification or password.
  - d. Use of computing facilities, campus network, or other resources to interfere with the work of another member of the University Community.
  - e. Use of computing facilities and resources to send obscene or intimidating and abusive messages.
  - f. Use of computing facilities and resources to interfere with normal University operations.
  - g. Use of computing facilities and resources in violation of copyright laws.
  - h. Violation of a campus computer use policy.
- Violation of any published University policy, rule, regulation or presidential order.
- 17. Failure to comply with directions of, or interference with, any University official or any public safety officer while acting in the per-

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formance of his/her duties.

- 18. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of members of the University community, to property within the University community or poses a significant threat of disruption or interference with University operations.
- 19. Violation of the Student Conduct Procedures, including:
  - a. Falsification, distortion, or misrepresentation of information related to a student discipline matter.
  - b. Disruption or interference with the orderly progress of a student discipline proceeding.
  - c. Initiation of a student discipline proceeding in bad faith.
  - d. Attempting to discourage another from participating in the student discipline matter.
  - e. Attempting to influence the impartiality of any participant in a student discipline matter.
  - f. Verbal or physical harassment or intimidation of any participant in a student discipline matter.
  - Failure to comply with the sanction(s) imposed under a student discipline proceeding.
- 20. Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

### Application of this Code

Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the campus community, or substantially disrupts the functions or operation of the University is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

### Procedures for Enforcing this Code

The Chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the University imposes any sanction for a violation of the Student Conduct Code.

**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.

# 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, (909) 537-5040.

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 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.

# Average Support Cost Per Full-Time Equivalent Student and Sources of Funds

The total support cost per full-time equivalent student includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of full-time equivalent students (FTES). The total CSU 2005/06 final budget amounts were \$2,615,120,000 from state General Fund appropriations (not including capital outlay funding), \$1,003,659,000 from State University Fee Revenue, \$393,418,000 from other fee revenues, and reimbursements for a total of \$4,012,0955,000. The number of projected 2005/06 full-time equivalent students (FTES) is 332,223. The number

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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 2005/06 average support cost per full-time equivalent student based on General Fund appropriation and State University Fee revenue only is \$10,884 and when including all sources as indicated below is \$12,077. Of this amount, the average student fee support per FTE is \$3,021, which includes all fee revenue in the state higher education fund (e.g. State University Fee, nonresident tuition, application fees, miscellaneous course fees).

	Average Cost per				
2004/05	Amount	FTE Student	Percentage		
Total Support Cost	\$4,012,0955,000	\$12,077	100%		
<ul> <li>State Appropriation</li> </ul>	2,615,1208,000	7,865	65%		
<ul> <li>Student Fee Support¹</li> </ul>	1,003,659,000	3,020	25%		
<ul> <li>Reimbursements</li> </ul>	393,418,000	1,184	10%		

¹Student fee support represents fee revenue deposited in the State Treasury/state higher education fund. The average CSU 2004/05 academic year, resident, undergraduate student fees required to apply to, enroll in, or attend the university is \$2,916. However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident, or nonresident.

### 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

Eligibility Index Table for California High School Graduates or

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.

### 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 2003, or six years after entering the CSU, 44 percent of the fall 1997 entering freshman class had earned the bachelor's degree at the CSU campus of first attendance, with an additional 10% still enrolled. The Cal State, San Bernardino entering freshman statistics were similar with 42% graduating within six years while another 10% were still enrolled. Not reflected in these statistics are the 3 or 4 percent of the freshman class who earn a degree at another CSU after transferring.

-	-	dex Table f		rnia Hig	h School	Graduates	s or							
Resid	ents of	^c California	l											
	ACT	SAT I		ACT	SAT I		ACT	SAT I		ACT	SAT I		ACT	SAT I
GPA	Score	Score	GPA	Score	Score	GPA	Score	Score	GPA	Score	Score	GPA	Sco	reScore
3.00 ar	nd above	e qualifies	2.81	14	660	2.60	18	820	2.39	22	990	2.18	26	1160
with an	y score		2.80	14	660	2.59	18	830	2.38	22	1000	2.17	26	1170
	-		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	17	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	Below	2.00 d	loes not
2.82	13	650	2.61	18	820	2.40	22	980	2.19	26	1150	qualify	for reg	gular
												admiss	sion	

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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.

### **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 learning) 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 *Class Schedule*.

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.

### **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.

### **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;
- 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;
- 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 a Student Body Fee

The law governing the California State University provides that fees defined as mandatory, such as a student body association fee and a student body center fee, may be established. A student body association fee must be established upon a favorable vote of twothirds 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 association 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.

### **Nondiscrimination Policy**

### Race, Color, and National Origin

The California State University complies with the requirements of Title VI and Title VII of the Civil Rights Act of 1964 as well as other applicable federal and state laws prohibiting discrimination. No person shall, on the basis of race, color, or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in any program of the California State University.

### Disability

The California State University does not discriminate on the basis of disability in admission or access to, or treatment or employment in, its programs and activities. Sections 504 and 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990 and various other state laws prohibit such discrimination. Dr. Frank Rincón, vice president for student services has been designated to coordinate the efforts of compliance with all relevant disability laws. Inquiries concerning compliance may be addressed to Dr. Rincon at 5500 University Parkway, San Bernardino, CA 92407, (909) 537-5000.

### Sex/Gender

The California State University does not discriminate on the basis of sex or gender in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972, and certain other federal and state laws 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 these laws 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.

### **Sexual Orientation**

California State University, San Bernardino, and by CSU Board of Trustees policy, does not discriminate on the basis of sexual orientation.

### Filing a Discrimination Complaint by a Student

Information and filing forms concerning a discrimination complaint 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, the Vice President's offices, and college Dean's offices. A discrimination 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 complaint event. This policy and filing forms can also be accessed at http://studentaffairs. csusb.edu/policies.html.

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### 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 CAT-ALOG" listing campuses and courses is available on the Internet at http://www.cansystem.org.

CAN NUMBER	CSU, SAN BERNARDINO COURSE
CAN AJ 2	CJUS 101
CAN AJ 4	CJUS 101
CAN AJ 8	CJUS 102 CJUS 106
CAN ANTH 2	ANTH 100
-	
CAN ANTH 4 CAN ART 2	ANTH 102
CAN ART 2 CAN ART 4	ART 221
CAN ART 6	ART 223 ART 254
CAN ART 8	ART 254 ART 122
	ART 233
	ART 240 ART 120
	ART 120 ART 121
	ART 290
	ART 260
	BIOL 220
CAN ART 10 CAN ART 12 CAN ART 14 CAN ART 16 CAN ART 16 CAN ART 20 CAN BIOL 14 CAN BIOL SEQ A CAN BIOL SEQ B CAN BIJLS 8	BIOL 220 BIOL 200 + 201 + 202
	BIOL 200 + 201 + 202 BIOL 223 + 224
CAN BUS 8	MGMT 230
CAN BUS 8 CAN CHEM SEQ A	CHEM 215 + 216
CAN CSCI 4	CSCI 240
CAN CSCI 4	CSCI 125
CAN CSCI 22	CSCI 201
CAN CSCI 22 CAN CSCI 24	CSCI 201
CAN CSCI 24	MATH 272
CAN DRAM 6	TA 253
CAN DRAM 8	TA 251
CAN DRAM 10	TA 232
CAN DRAM 12	TA 239
CAN DRAM 12 CAN DRAM 14	TA 131
CAN DRAM 14	TA 260
CAN DRAM 20	TA 245
CAN DRAM 20 CAN DRAM 22	TA 252
CAN ECON 2 CAN ECON 4 CAN ENGL 2 CAN ENGL SEQ B CAN FREN SEQ A CAN GEOG 4 CAN GEOG 6 CAN GEOL 2 CAN GEOL 4	ECON 202 ECON 200
CAN ENGL 2	ENG 101
CAN ENGLISEO B	ENG 210 + 211 + 212
CAN EREN SEO A	FREN 101 + 102 + 150
CAN GEOG 4	GEOG 100
CAN GEOG 6	GEOG 103
CAN GEOL 2	GEOL 101
CAN GEOL 4	GEOL 250
CAN GEOL 4 CAN GER SEQ A	GERM 101 + 102 + 150
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 CAN JOUR 2 CAN KINE/PE 8 CAN MATH 2 CAN MATH 10 CAN MATH 16 CAN MATH 24 CAN MATH SEQ B CAN PHIL 2 CAN PHYS 8 CAN PHYS 12 CAN PHYS SEQ C CAN PSY 2 CAN PSY 6 CAN SOC 2 CAN SPAN SEQ A CAN SPCH 4 CAN SPCH 6 CAN SPCH 8 CAN SPCH 10

HIST 140 + 142 + 144 **COMM 240 KINE 200 MATH 115 MATH 110 MATH 120 MATH 270** MATH 211 + 212 + 213 PHIL 190 **PHYS 221 PHYS 222** PHYS 221+ 222 + 223 + 224 + 228 **PSYC 100** PSYC 210 SOC 100 SPAN 101 + 102 + 150 **COMM 120** COMM 180 **COMM 225 COMM 221** 

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